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October 3, 2022

AECOM Project
60681598

DRAFT DELIBERATIVE

Ms. Lynn Gosson
Michigan Department of Environment,
Great Lakes, and Energy
Remediation and Redevelopment
Division
Bay City District Office
401 Ketchum Street
Bay City, Michigan 48708

Former McDonald's Country Store - Site Investigation

Dear Ms. Gosson,

On behalf of the Michigan Department of Environment, Great Lakes and Energy (EGLE), AECOM conducted a limited investigation of soil, groundwater, sediment, surface water, and drinking water at and near the Former McDonalds Country Store (site) between June 6th and June 29th, 2022. The site is located on County Road F-41, Oscoda Township, in Iosco County, Michigan and is identified by parcel ID 062-002-100-002-00. Historic records denote the address of the site as 7793 F-41, Oscoda, Michigan 48750 while current Iosco County records note the parcel address as 7865 F-41, Oscoda, Michigan 48750.

The purpose of the limited assessment was to obtain supplemental analytical data to further evaluate the nature and extent of per- and polyfluoroalkyl substances (PFAS) impact resulting from the application of aqueous film-forming foam (AFFF) at the site on December 25, 1992 during the extinguishing of a structure fire by the Wurtsmith Air Force Base fire department. **Figure 1** depicts the site overview, the former location of the structure involved in the 1992 fire, and the locations of samples and monitoring wells completed by AECOM.

1. Background

On behalf of EGLE, an initial investigation at the site was completed by DLZ Michigan, Inc. (DLZ) on July 3, 2018. As a part of the investigation, samples were collected from soil, sediment, and surface water media for the analysis of PFAS. Soil samples were collected from 15 soils borings which were installed at the site property and at an adjacent property to the east of County Road F-41. Five sediment and four surface water samples were collected from Hill Creek, which is located approximately 400 feet south of the site. With the exception of one soil sample location [SB-15 (3-4')], the laboratory results for soil samples indicated concentrations of PFAS above laboratory detection limits with total PFAS concentrations ranging from 1.020 nanograms per gram (ng/g) or parts per billion (ppb) [SB-14 (3.5-4.5')] to 350,779 ng/g [SB-8 (1.5-3.5')]. The laboratory analytical results for sediment samples showed detections of PFAS with concentrations ranging from 2.230 ng/g (Sed-4) to 4,047.6 ng/g (Sed-1). The laboratory analytical results for surface water samples collected as a part of this investigation showed detections of PFAS at concentrations below Part 201 Cleanup Criteria. For further information relating to this investigation, please refer to the February 19, 2019 DLZ report entitled; *Initial Investigation Report, Former McDonald's Country Store, 7793 F-41, Oscoda, Michigan 48750*.

PFAS analysis results for samples collected during the current assessment were also reported with concentrations of the branched and linear isomers for perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), perfluorohexane sulfonic acid (PFHxS), N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA), and N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA). PFAS manufactured using electrochemical fluorination results in the formation of branched and linear isomers. For PFAS where technical standards exist, and the branched isomers have been confirmed, the concentrations in analytical reports are reported as separate values for branched isomers, linear isomers, and a summed total amount. To date, it has been reported in technical papers and other publications

that the typical percentage range of branched isomers in various products and standards is between 18% to 30%. The branched isomers have been demonstrated to accumulate less in soils, sediments, and bioaccumulate less in various biota compared to the linear isomers. This is particularly true for PFOS, which if often the most frequently detected PFAS. As a result, the percentage of branched isomers for PFOS could potentially be used to evaluate fate and transport considerations and further refine the conceptual site model. Please note, that at low ppb concentrations for soil, sediment, and biota as well as low parts per trillion (ppt) concentrations for aqueous samples, using branched percentages may not be reliable since relatively small variations in concentrations could have a significant impact in the overall percentage or branched isomers compared to linear isomers. However, when the percentage of branched isomers is high at low concentrations, the results could still provide useful fate and transport information.

2. Field Activities

2.1 Soil Sampling

Eleven soil borings (SB001 through SB011) and ten groundwater monitoring wells (MW001 through MW010) were installed at the site between June 6, 2022 and June 10, 2022 using direct push soil sampling, hand auger soil sampling, and hollow stem auger well drilling methods. The soil boring and monitoring well locations are shown on **Figure 1**. Logs depicting the soil boring and monitoring well construction details are also attached. In effort to locate the source area of PFAS contamination at the site, remnants of concrete building footers for the former McDonald's Country Store visible at the ground surface were located, and their global positioning system (GPS) coordinates were recorded in the field using a Trimble® Yuma® 2 rugged tablet computer. The portions of the store's foundation that were located were used to approximate the location of the footprint of the former structure, as shown on **Figure 1**.

Continuous soil sampling from the ground surface to each boring's terminus was completed at each soil boring and monitoring well location. Per EGLE's request, soil samples were screened with a photo-ionization detector (PID) to evaluate the potential for petroleum impact. Elevated PID responses related to petroleum impact were not noted, and visual or olfactory evidence of petroleum impact was not observed.

In total, 34 soil samples were collected in accordance with EGLE PFAS sample collection guidance documents during the advancement of a combined 22 soil boring and monitoring well locations. Soil samples were targeted to be collected from the vadose zone at each soil boring or monitoring well location. Depending on the depth groundwater was encountered, up to two depth intervals were selected for sampling. At each location, a soil sample was collected at a depth of approximately 0.5' to 1.0' below ground surface (bgs) and from a depth above the apparent depth to groundwater (generally 2' to 3' bgs). Soil samples were targeted to be collected in six-inch intervals. However, soil sample intervals of one foot were required in instances of limited volume recovery by the direct push equipment. Soil samples were homogenized in a stainless-steel mixing bowl by hand using new, nitrile gloves prior to their transfer into laboratory-provided sample jars. The soil samples were placed in laboratory-provided jars, labeled, and transferred to a cooler on ice. All soil samples were submitted to Eurofins Environment Testing America (Eurofins) under chain-of-custody documentation for analysis of 31 PFAS compounds using Modified Method 537 with isotope dilution, including branched and linear isomers.

Non-dedicated equipment which came into contact with groundwater or soil was decontaminated with a mixture of Liquinox® and deionized water. Field personnel donned a new pair of gloves prior to handling sampling equipment, between sampling and decontamination procedures at each sample location, and between sampling locations.

2.2 Monitoring Well Installation

Ten groundwater monitoring wells were installed at the locations shown on **Figure 1**. Please note that the original work plan proposed the installation of 13 monitoring wells; however, insufficient quantities of groundwater were present at SB003, SB006, and SB008, so these locations were completed as soil borings instead of monitoring wells, per EGLE's direction. Monitoring wells MW001 through MW010 were installed to evaluate shallow groundwater conditions with screened intervals intersecting the observed water table and screen depths ranging from approximately one to six feet bgs to three to eight feet bgs. The screened intervals and coordinates of the monitoring wells are provided in **Table 2**. The monitoring well construction logs and soil boring logs are provided in **Appendix A**.

A two-inch diameter, schedule 40, polyvinyl chloride (PVC) monitoring well was installed at each monitoring well location. Each monitoring well consisted of PVC casing material and a five-foot long PVC screen. A granular sand pack was placed around and approximately one foot above the screens. A one-half foot to one-foot-thick bentonite plug was placed above the sand pack. The monitoring wells were completed either at grade level with a steel, flush-mount protective cover or were completed above grade with a steel, stick-up style protective cover. Monitoring well covers were secured by concrete pads at the ground surface. The monitoring wells were developed no sooner than 24 hours post installation. Due to the limited rate of groundwater recharge into the monitoring wells, a peristaltic pump was used to purge the monitoring wells until a volume of water equal to approximately five well volumes had been removed or until the monitoring well purged dry. If sufficient groundwater volumes and recharge rates are noted during the next groundwater sampling event, the monitoring wells may be redeveloped using standard surge block methods if desired by EGLE.

2.3 Artesian Water Well Sampling

An artesian water well is present near the southern property boundary, approximately 40 feet west of the western extent of the F41 right of way, as shown on **Figure 1**. The well was evaluated by AECOM on June 6, 2022 and was found to be plumbed to a high-density polyethylene (HDPE) intermediate bulk container (IBC) tote. The well was observed to be filling the tote via natural artesian flow and groundwater was overflowing the top of the tote. An electric submersible pump was observed at the tote with garden hoses connecting it to a sprinkler system which irrigates a vegetable garden at the property. The screened interval depth or intake depth of this water well is unknown.

As the well casing was plumbed directly to the tote, collection of a sample directly from the well was not possible. Per EGLE's request, AECOM collected a sample from the water flowing from the tote in accordance with the EGLE document *General PFAS Sampling Guidance (October 2018)*. The sample was placed in laboratory-provided jars, labeled, and transferred to an ice-chilled cooler. The sample was submitted to Eurofins under chain-of-custody documentation for analysis of 31 PFAS compounds using Modified Method 537 with isotope dilution, including branched and linear isomers.

Non-dedicated equipment which came into contact with groundwater was decontaminated with a mixture of Liquinox® and deionized water. Field personnel performing the collection procedures donned a new pair of gloves prior to handling sampling equipment and between sampling and decontamination procedures.

2.4 Surface Water Sampling

Hill Creek is located approximately 400 feet south of the site and flows east toward the Pine River. To evaluate PFAS impacts to Hill Creek, five surface water samples were collected from Hill Creek at locations in the vicinity of the site with two samples presumed to be located upstream (SW004 and SW005) and three samples presumed to be located downstream (SW001 through SW003) of PFAS-impacted surface water runoff or groundwater discharges to Hill Creek. Surface water sample locations SW001 through SW005 are shown on **Figure 1**. Surface water samples were collected on June 14, 2022 in accordance with the EGLE document *Surface Water PFAS Sampling Guidance (November 2018)*. Samples SW001 through SW005 were collected by immersion sampling techniques, with samples being collected by hand to immerse a sample bottle into the surface water body with each sample being collected upstream from the sample collector to reduce the potential for disturbed sediments to enter the sample container. Sample locations in Hill Creek were selected based on having a lower stream velocity relative to other locations along the sample transect and sufficient depth for sample collection. Due to the shallow depth of the creek, the sample bottles could not be fully immersed beneath the air-water interface during sample collection. Therefore, surface water samples SW001 through SW005 were collected at the surface of the creek.

Another surface water body is present approximately 700 feet northwest of the former McDonald's Country Store. Based on historic aerial photos, this surface water body appears to be a man-made pond. This onsite surface water body is denoted on **Figure 1** by the location of sample ID SW006. Surface water sample SW006 was collected on June 14, 2022 by immersing a stainless-steel cup collection device into the pond using an extension pole. The surface water sample was then transferred from the sample collection cup to the laboratory provided sample containers. Prior to and following its use, the stainless-steel cup sample collection device was decontaminated using an Alconox®/deionized

water solution followed by a rinse with deionized water. An equipment blank sample was also collected from the stainless-steel sample collection cup on June 14, 2022.

Following their collection in laboratory provided bottles, surface water samples were labeled and transferred to an ice-chilled cooler. The samples were then submitted to Eurofins under chain-of-custody documentation for analysis of 31 PFAS compounds using Modified Method 537 with isotope dilution, including branched and linear isomers.

2.5 Sediment Sampling

Sediment samples SD001 through SD005 were collected on June 14, 2022 from the five Hill Creek surface water sample locations named above, however the cooler containing these samples was delayed in transit by the shipping carrier and the sample bottles were found by Eurofins to be compromised by melted ice water. Therefore, these sediment samples were deemed unrepresentative and recollected on June 29, 2022 without additional expense to EGLE.

During the June 29, 2022 sediment sampling event, three sediment samples were collected across transect lines across Hill Creek at locations SD001 through SD005 shown on **Figure 1**. At each of the five transect locations, a sediment sample was collected from each creek bank (i.e., north bank and south bank) and from the center of Hill Creek. Samples collected from the creek banks were collected at unsubmerged locations, at distances of approximately six inches from the interface of surface water and soil. Samples were collected using a stainless-steel shovel, transferred into laboratory provided bottles, and transferred to an ice-chilled cooler. Prior to and following its use, the stainless-steel shovel was decontaminated using an Alconox®/deionized water solution followed by a rinse with deionized water. An equipment blank sample was collected from the stainless-steel shovel sampling device. The samples were then submitted to Eurofins under chain-of-custody documentation for analysis of 31 PFAS compounds using Modified Method 537 with isotope dilution, including branched and linear isomers.

Non-dedicated equipment which came into contact with groundwater or sediment was decontaminated with a mixture of Liquinox® and deionized water. Field personnel performing the collection procedures donned a new pair of gloves prior to handling sampling equipment, between sampling and decontamination procedures at each sample location, and between sampling locations.

2.6 Groundwater Sampling

On June 14 and 15, 2022, groundwater samples were collected from monitoring well locations MW001 through MW010 shown on **Figure 1**. Monitoring well location, screened interval, and groundwater elevation data are provided in **Table 2**. Prior to sampling, water levels were measured in each well to produce a groundwater potentiometric surface map (**Figure 5B**). Wells were sampled using EGLE-approved, low-flow groundwater sampling techniques in accordance with the EGLE document *Groundwater PFAS Sampling Guidance (October 2018)*. Water quality parameters (i.e., pH, temperature, specific conductance, oxidation reduction potential [ORP], turbidity and dissolved oxygen [DO]) were monitored and recorded approximately every five minutes during purging. Samples were collected after water quality parameters stabilized as follows: Depth to water drawdown <0.33 feet, pH +/-0.1, Conductivity +/- 3%, Turbidity +/- 10%, Dissolved Oxygen +/- 10%, Temperature +/- 5%, and ORP +/- 10mV. Groundwater was purged from the monitoring wells at a targeted rate of 200 milliliters per minute (mL/min). A minimum of three reading intervals were performed prior to evaluation for water quality stabilization and sample collection. If the water quality parameters did not stabilize after ten readings, the monitoring well was sampled following the completion of the tenth reading interval. If the monitoring well purged dry prior to the stabilization of water quality parameters, the well was allowed to recharge with groundwater and a sample was collected. A table providing the final water quality parameter values measured at each monitoring well prior to sample collection is attached as **Table 8**.

Samples were placed in laboratory provided sample containers, labeled, transferred to an ice-chilled cooler, and submitted under chain-of-custody directly to Eurofins for analysis of 31 PFAS compounds using Modified Method 537 with isotope dilution, including branched and linear isomers.

Non-dedicated equipment which came into contact with groundwater was decontaminated with a mixture of Liquinox® and deionized water. Field personnel performing the collection procedures donned a new pair of gloves prior to handling

sampling equipment, between sampling and decontamination procedures at each sample location, and between sampling locations.

2.7 Investigation Derived Waste

Investigation derived waste (IDW) generated during the work included purged groundwater, decontamination water and soil. All IDW was containerized in 55-gallon drums for transport and disposal. Three drums of soil and one drum of water were generated during the investigation. At the time of pickup of the drums for transport and disposal, it was discovered that the drum containing water was not present. The drums containing soil were transported by Northern A-1 Environmental Services to the Wexford County Landfill for disposal. Proof of disposal of these wastes is provided in **Appendix B**.

3. Results and Discussion

3.1 Soil Stratigraphy and Hydrogeology

Continuous soil cores were collected from soil borings advanced during the field activities completed from June 6, 2022 through June 8, 2022. Visual observation and characterization of these soils confirmed the soil types described in a prior investigation completed by DLZ in 2018.

Characterization of the soil cores during this phase of the investigation revealed a generally consistent stratigraphy beginning near the ground surface, consisting of fine to medium grained sands interbedded with clay layers until a contiguous clay layer was encountered at depths ranging from two to nine feet bgs. This deeper clay layer was encountered in all soil borings. Based on the results of the 2018 investigation, this clay layer extends to a depth of at least 20 feet bgs near the former McDonald's Country Store building. Elevations of the surface of this clay layer were estimated using the ground surface elevation data of the monitoring wells. These elevations were plotted and it is apparent the surface elevation of this clay layer decreases to the southeast toward Hill Creek as shown on **Figure 5A**.

The groundwater sampled during this investigation was perched atop the clay layer, with a measurable thickness of approximately three feet (MW003) to five feet (MW006). The groundwater was found to be laterally discontinuous at the site, pinching out to the north in apparent relation to the north-rising slope of the clay layer. A groundwater potentiometric surface map was created using water level measurements collected on June 14 and 15, 2022 to evaluate groundwater flow direction at the site, which is generally south-southeast toward Hill Creek (**Figure 5B**). The groundwater flow direction appears to be influenced by the south-east dipping orientation of the clay layer at the site. Groundwater elevation data are provided in **Table 2**.

3.2 Soil Sampling Results

A total of 34 soil samples were collected from the soil boring and monitoring well locations shown on **Figure 1**, except monitoring well locations MW002, MW005, and MW006, where soil samples were not collected due to the presence of groundwater near the ground surface.

Concentrations of PFOS were detected in all soil samples submitted for laboratory analysis, with the exception of the soil sample collected from soil boring SB008 at a depth of two to three feet bgs. The concentrations of PFOS ranged from below laboratory detection limits (SB008 2-3') to 530 (ng/g) (SB011 0.5-1').

Concentrations of other PFAS compounds were also present above their laboratory reporting limits in select soil samples. **Table 1** lists PFAS compounds analyzed as a part of this investigation, their abbreviated names, and CAS numbers. The soil sample analytical results are summarized in **Table 3** and are depicted on **Figure 2**. Please refer to the laboratory analytical report included in **Appendix C** for additional details.

3.3 Artesian Water Well Sampling Results

The laboratory analytical results for the sample collected from the artesian well indicated that the concentrations of all analyzed PFAS were below laboratory detection limits. The analytical results of the artesian water well sample are summarized in **Table 4**. As all PFAS concentrations were below laboratory detection limits, a figure depicting the results

of this sample is not provided. Please refer to the laboratory analytical report included in **Appendix C** for additional details.

3.4 Surface Water Sampling Results

Concentrations of total PFAS measured in surface water samples ranged from 1.57 nanograms per liter (ng/L) [or parts per trillion (ppt)] at surface water sample location SW005 to 33.70 ng/L at surface water sample location SW001. There are limited toxicological studies on many PFAS, however PFOA, PFOS, and Perfluorobutane sulfonic acid (PFBS) currently have water quality values (WQVs) as shown below. These values are also used as Generic Groundwater Surface Water Interface Criteria (GSIC) under Part 201. The surface water bodies sampled at the site are not sources of drinking water; therefore, the applicable criteria for this site are those for a non-drinking water source as shown in the table below.

PFAS	Human Noncancer Value (nondrinking water source)	Human Noncancer Value (drinking water source)	Final Chronic Value	Final Acute Value	Aquatic Maximum Value
PFOS[1]	12	11	140,000	1,600,000	780,000
PFOA[1]	170	66	880,000	15,000,000	7,700,000
PFBS[1]	670,000	8,300	24,000,000	24,000,000	120,000,000

[1]Units are nanograms per liter (ng/L) or parts per trillion (ppt). These units are considered equivalent.

Concentrations of PFOS were detected above the WQV of 12 ng/L in surface water samples SW001, SW002, and SW003 with reported concentrations of 20 ng/L, 18 ng/L, and 15 ng/L, respectively. The concentrations of remaining PFAS compounds did not exceed WQV in the collected surface water samples.

Concentrations of other PFAS compounds were present above their laboratory reporting limits; however, there are currently no WQVs for these compounds in surface water. The analytical results are summarized in **Table 5** and are depicted on **Figure 3**. Please refer to the laboratory analytical report included in **Appendix C** for additional details.

3.5 Sediment Sampling Results

Concentrations of total PFAS measured in the sediment samples ranged from below laboratory detection limits at sediment sample SD004 Center to 245.54 ppb or ng/g at sediment sample location SD003 North Bank. Concentrations of PFOS ranged from below laboratory detection limits (SD004 Center) to 210 ng/g (SD003 North Bank). Concentrations of PFOA ranged from below laboratory detection limits (numerous samples) to 5.53 ng/g (SD005 Center).

The analytical results are summarized in **Table 6** and are depicted on **Figure 4**. Please refer to the laboratory analytical report included in **Appendix C** for additional details.

3.6 Groundwater Sampling Results

Groundwater sample analytical results for total PFAS ranged from 91.3 ng/L (MW007) to 30,250 ng/L (MW001).

Concentrations of PFOA, Perfluorononanoic acid (PFNA), PFHxS, and/or PFOS were above the Part 201 Drinking Water Criteria (DWC) in multiple groundwater samples. Concentrations of PFOA and PFOS were also above the Part 201 GSIC in multiple samples. The concentrations of other PFAS compounds did not exceed Part 201 cleanup criteria. Detections of PFAS for which Part 201 criteria have not yet been established were noted in the groundwater samples. The groundwater sample analytical results are summarized in **Table 7** and are depicted on **Figure 6**. Please refer to the laboratory analytical reports included in **Appendix C** for additional details.

3.7 Quality Control Samples

Quality control samples were collected during the soil, water well, surface water, sediment, and groundwater sampling events in accordance with applicable EGLE PFAS sampling guidance documents. One duplicate sample was collected for every 20 samples collected. Additionally, field and equipment blanks (if non-disposable equipment were used) were collected at a rate of one per every 20 samples collected. Field and equipment blanks did not contain concentrations of PFAS with exception of: (1) Sample EB 220607 1900 (0.44 ng/L Perfluoroheptanoic Acid), which was collected from a stainless-steel hand auger on June 7, 2022 following the installation of monitoring well MW008; and (2) Sample EB 220608 1930 (1.1 ng/L Perfluorooctanesulfonamide), which was collected from a stainless-steel sample homogenization bowl on June 8, 2022 following the collection of soil samples from soil boring SB011. The laboratory analytical results for these samples are provided in the laboratory analytical reports attached in **Appendix C**.

4. Conclusions

4.1 Soil Sampling and Soil Impact

Concentrations of PFOS were detected above laboratory reporting limits in all soil samples except sample SB008 (2-3'). The highest reported PFOS concentration of 530 ng/g was found in soil sample SB011 (0.5-1'). Based on the location of the remaining building footers, we believe soil boring SB011 was advanced within the footprint of the former McDonald's Country Store building. The remaining soil samples were collected in effort to further assess PFAS concentrations in the vicinity of the reported release area in an attempt to delineate the extent of PFAS contamination in soil. The PFAS concentrations measured during this investigation are similar to those reported by DLZ in their 2018 investigation; however, there were higher PFAS concentrations reported by DLZ in soil samples where ash was observed, which should be considered when comparing data from the two investigations.

Based on soil sample analytical results and historic accounts of the release of AFFF to the McDonald's Country Store site, it is apparent that PFAS-impacted soils remain at the site, the extent of PFAS-impacted soil is not defined, and the extent of impact extends beyond the immediate vicinity of the former McDonald's Country Store building, including to areas east of F-41 and southwest of the former building. This is not surprising given that AFFF is applied as a foam solution which is not easy to apply to a small, controlled area or control migration of the foam since the foam solution can easily be transported by wind or through surface water runoff. As a result, the area impacted during a firefighting event would likely be larger than the area affected by the fire itself.

4.2 Artesian Water Well Sampling

Concentrations of PFAS measured in water collected from the artesian well were below laboratory detection limits. While the screened interval of the water well is unknown, it is possible that the well is producing groundwater from a deeper aquifer that may not be in hydraulic communication with the impacted, shallow perched water. Based on these results, no further evaluation of this water well is warranted at this time.

4.3 Surface Water Sampling

Surface water samples SW001 through SW005 were collected from Hill Creek, which flows to the east/northeast, toward the Pine River. The laboratory analytical results for the surface water samples collected from locations presumed to be located upstream of PFAS-impacted surface water runoff or groundwater discharges to Hill Creek (SW004 and SW005) contained concentrations of PFBS and PFOS which did not exceed WQVs. The laboratory analytical results for the surface water samples collected from locations presumed to be located downstream of PFAS-impacted surface water runoff or groundwater discharges to Hill Creek (SW001 through SW003) contained PFOS at concentrations which exceeded the WQV. The highest PFOS concentration (20 ng/L) was noted at SW001, which was also the furthest downgradient sample location. Overall, PFOS concentrations increased with distance downstream and all WQV exceedances were reported east of F-41. This data indicates that further investigation may be warranted to evaluate how PFAS is being transmitted to Hill Creek. It should also be noted that there was an increase in the PFOS branched isomers percentage of approximately 40% in SW001 and SW002, compared to SW003 and SW004, which had a branched percentage of approximately 30%. It is possible that foam solution could have been transported by surface

water runoff in the County Road F-41 right-of-way, south of the site towards Hill Creek; however, other transport mechanisms may have occurred.

Concentrations of PFAS did not exceed WQVs in SW006, which was collected form a pond northwest of the former building; however, the total PFAS concentration of 10.85 ng/L suggests that the pond has received some degree of PFAS impact. It is currently unclear if PFAS is present in the pond due to surface water runoff, inadvertent exacerbation associated with relocation of contaminated soils, or if there is an undiscovered northwesterly groundwater flow that results in migration of PFAS-impacted groundwater toward the pond. Additional evaluation would be required to better understand the concentrations in the pond.

4.4 Sediment Sampling

Laboratory analytical results for the sediment samples indicate that PFOS was present in one or more samples collected from each transect.

The data indicate that PFOS is present in sediment at various locations of Hill Creek and that the highest concentrations appear to occur the northern or western banks, which are the banks closest to the AFFF release and would be the locations most likely to be exposed to surface water runoff from the site entering Hill Creek. It should also be noted that the highest concentration of PFOS was reported in SD005, which was presumed to be the most upstream sample location.

The branched percentage measured in sample SD003 was slightly elevated at 46%. The sample location of SD003 is situated downstream of MW002, which had an 80% branched percentage. However, the data set is very limited and most likely multiple release mechanisms exists at the site. Therefore, it may be difficult to fully understand the transport model of PFAS contaminants at this time. Using the branched isomers for the conceptual site model (CSM) may be more useful if additional samples will be collected in the future.

4.5 Groundwater Sampling

The lateral extent of PFAS in groundwater indicates that migration of PFAS-impacted groundwater has occurred, and that PFAS-impacted groundwater may be reaching and discharging into Hill Creek. The highest PFAS concentrations appear to be present in monitoring wells downgradient of the former building; however, each monitoring well installed during this investigation has concentrations of PFOS that exceed Part 201 DWC and GSIC and concentrations of PFOA, PFNA and/or PFHxS that exceed the Part 201 DWC. The data collected during this investigation, including branched and linear isomer data, indicates that the extent of impact in groundwater is not defined and that concentrations of PFAS in monitoring wells installed east of F-41 appear to support eyewitness accounts of AFFF being present to the east of F-41 during the extinguishing of the fire in 1992.

5. Summary

Based on concentrations of PFAS in collected soil, sediment, surface water, and groundwater samples, PFAS contamination is present in these media and the extent of impact is not yet defined. The concentrations of and spatial distribution of PFAS as the site, as indicated by sample concentrations, seems to support the extent of AFFF documented by eyewitness accounts in 1992 and that PFAS impacts have spread to a larger area by various transport mechanisms. Additional evaluation is necessary to better understand the extent of impact.

AECOM appreciates the opportunity to work with EGLE on this project. AECOM would be glad to provide additional information or offer additional assistance through its project manager for the site, Mike Cox. You may contact Mr. Cox at 616-574-8391 or at mike.cox@aecom.com.

Yours sincerely,

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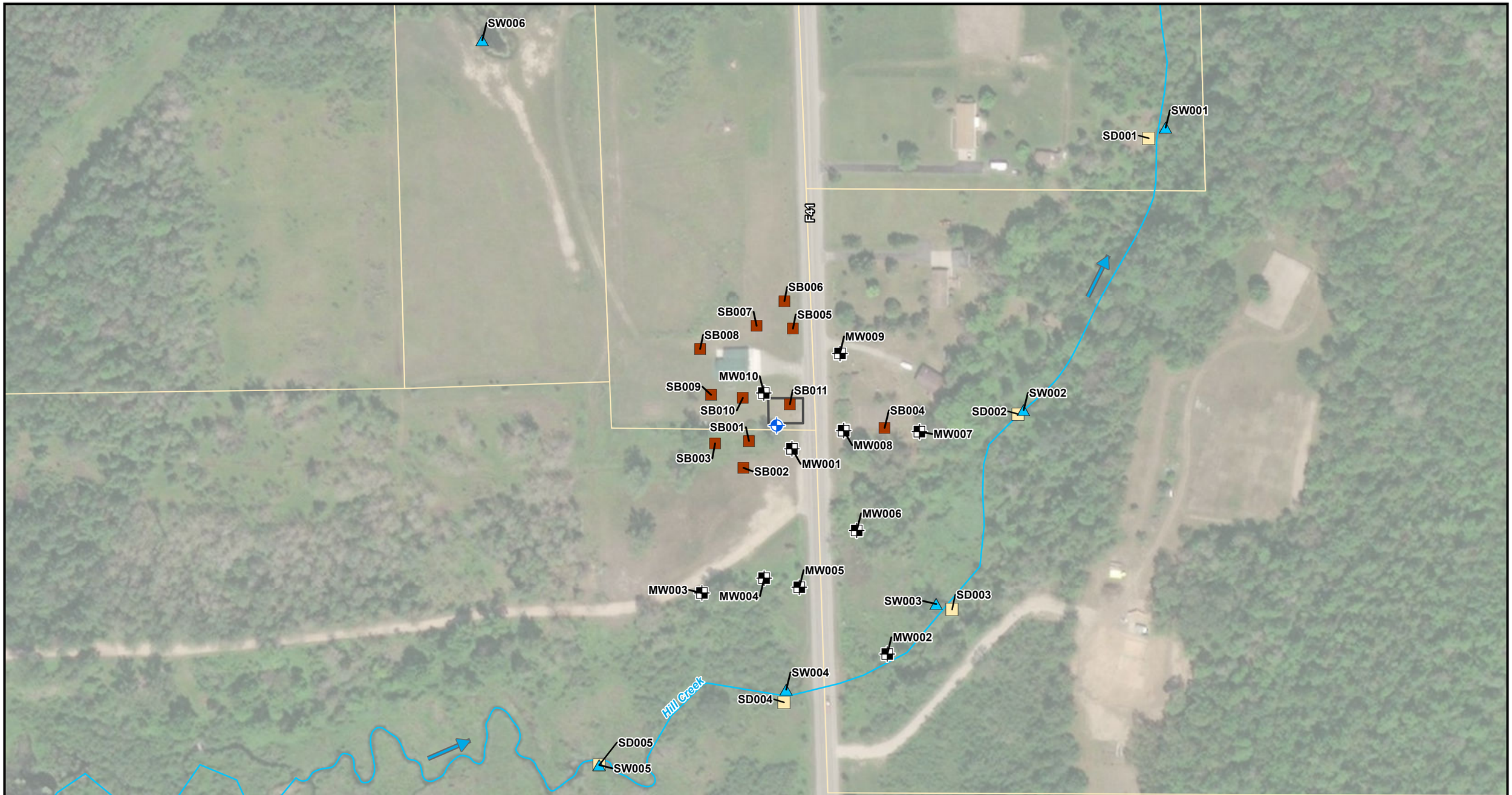
enclosures: Figures
Tables
Appendix A – Monitoring Well Construction and Soil Boring Logs
Appendix B – Proof of Waste Disposal
Appendix C – Laboratory Analytical Reports

Figures



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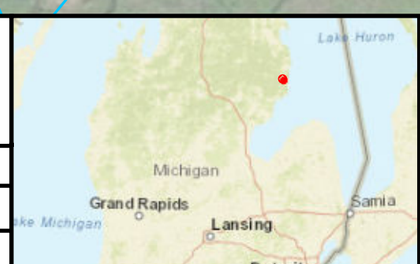


Legend

- Monitoring Well
- Soil Boring
- Surface Water Sample Location
- Sediment Sample Location
- Artesian Well
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Surface Water Flow Direction

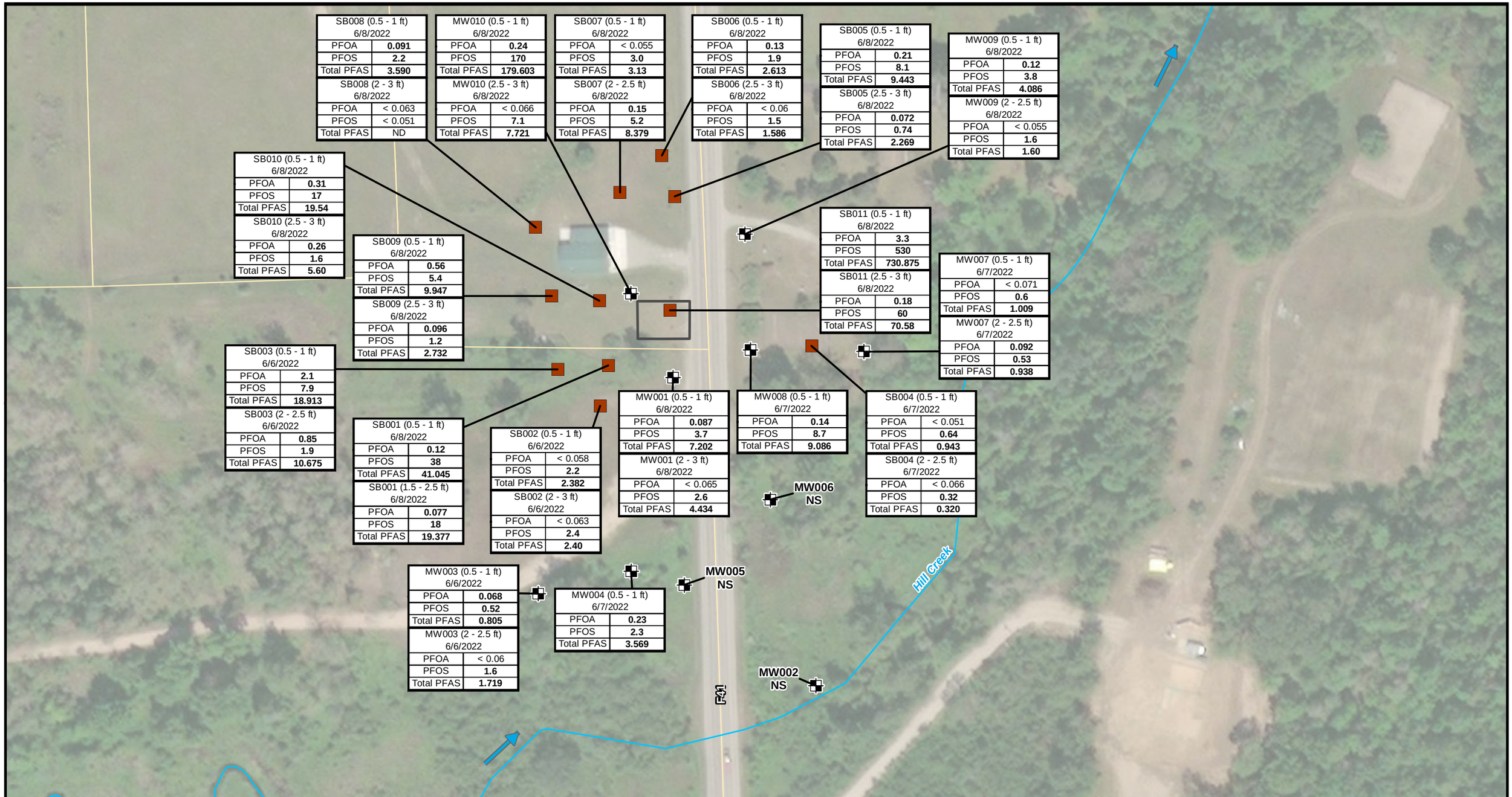
N

0 150 300 Feet

FIGURE 1
SITE OVERVIEW

FORMER MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_01_Sample_Locations.mxd



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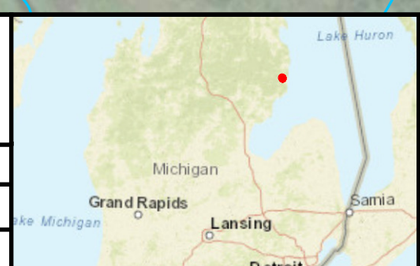
Project #:	60681598	



Legend

- Monitoring Well
- Soil Boring
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Surface Water Flow Direction

Analytical results are in ng/g or ppb
ND = non-detect
NS = not sampled

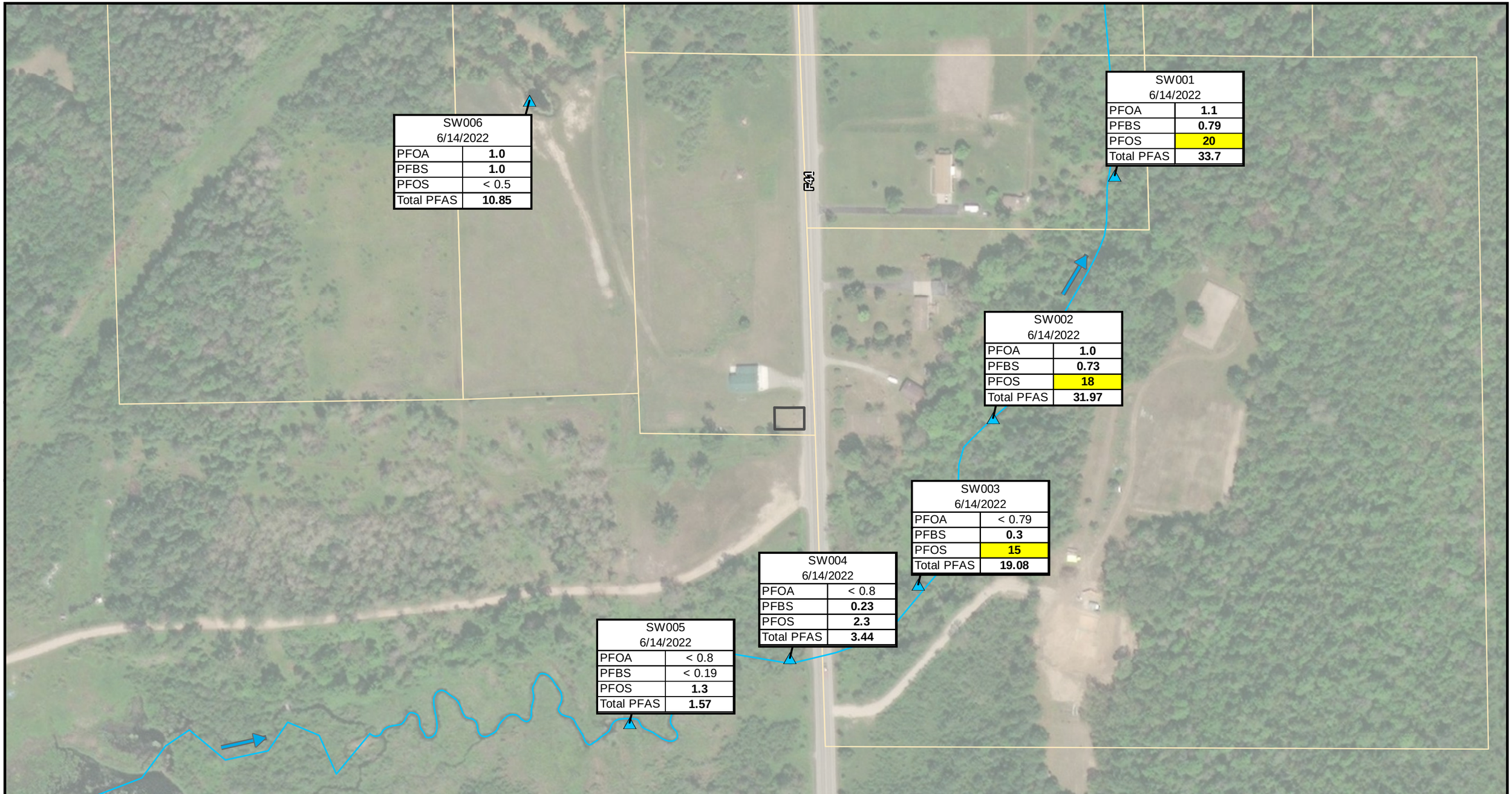
N

0 100 200 Feet

FIGURE 2
SOIL SAMPLING RESULTS - JUNE 2022

FORMER MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_02_Soil_Chembox_revised.mxd



AECOM

Drawn:	DP	Date: 10/3/2022
Approved:	MC	Date: 10/3/2022
Project #:	60681598	

Legend

- Surface Water Sample Location
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Surface Water Flow Direction

Analytical results are in ng/l or ppt

Exceeds Michigan Part 201 Criteria

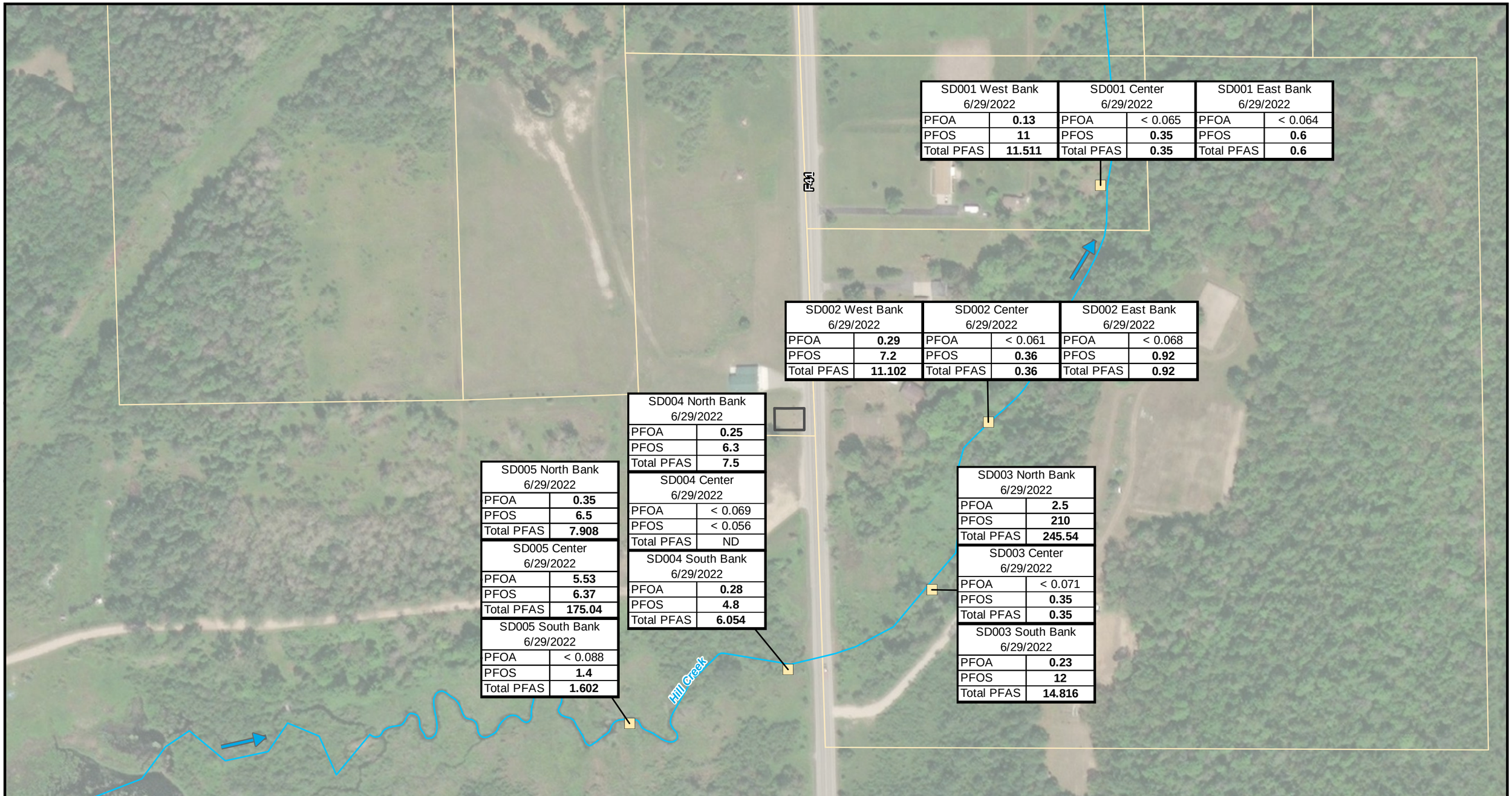
N

0 170 340 Feet

FIGURE 3
SURFACE WATER SAMPLING RESULTS - JUNE 2022

FORMER MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_03_SW_Chembox.mxd



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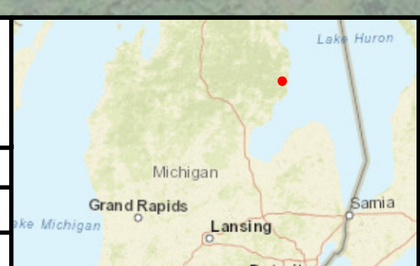
Drawn:	DP	Date: 10/3/2022
Approved:	MC	Date: 10/3/2022
Project #:	60681598	



Legend

- Sediment Sample Location
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Surface Water Flow Direction

Analytical results are in ng/g or ppb
ND = non-detect

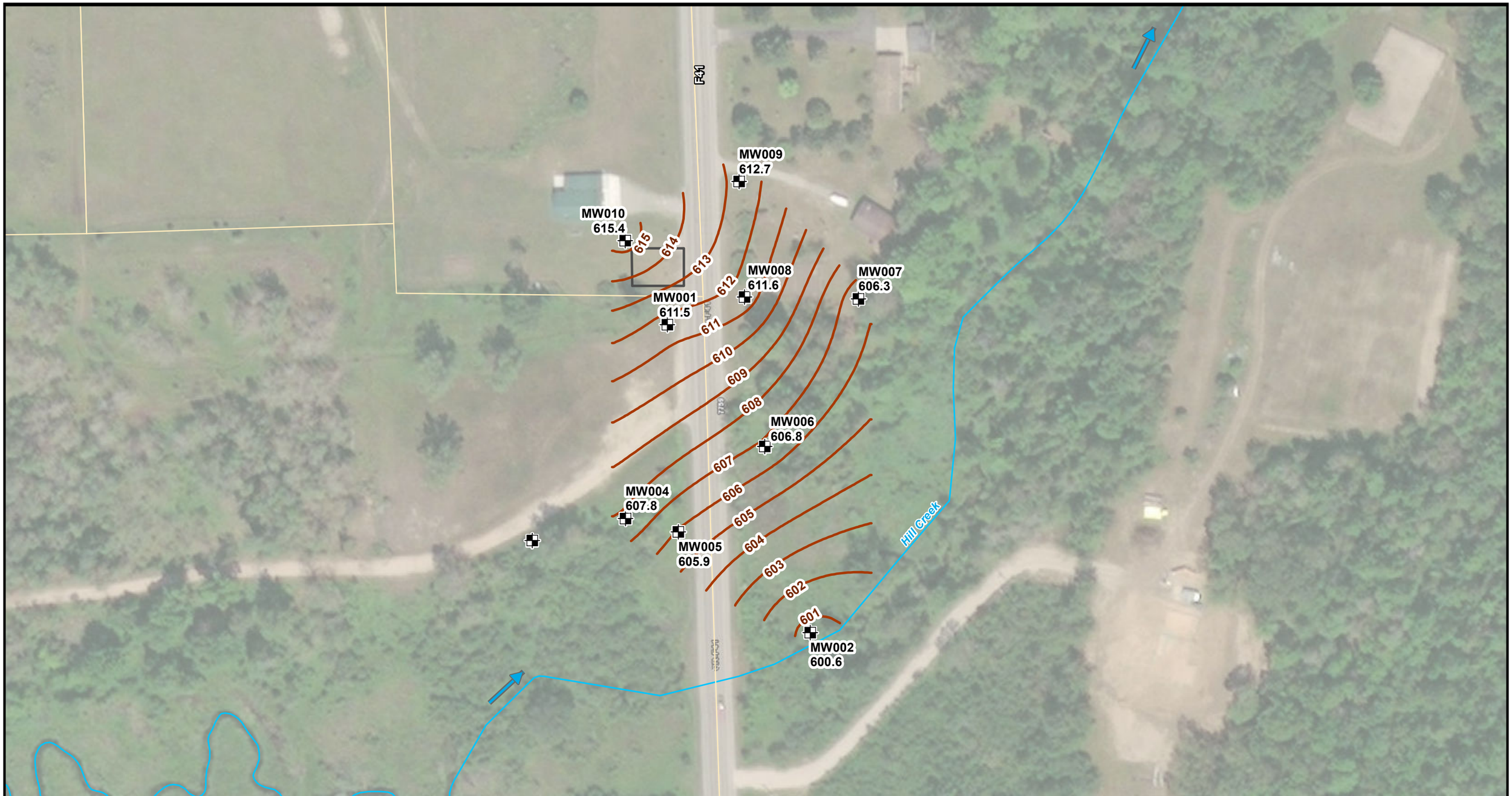
N

0 170 340 Feet

FIGURE 4
SEDIMENT SAMPLING RESULTS - JUNE 2022

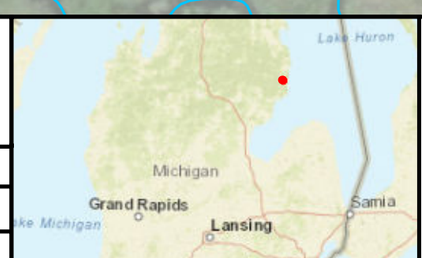
FORMER MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_04_Sediment_Chembox.mxd



AECOM

Drawn: DP	Date: 10/3/2022
Approved: MW	Date: 10/3/2022
Project #: 60560354	



Legend

- Monitoring Well
- Top of Clay Contour (1 ft interval)
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Surface Water Flow Direction

Monitoring Well ID
Top of Clay Elevation (ft-AMSL)

N

0 100 200 Feet

FIGURE 5A
TOP OF CLAY ELEVATION
CONTOUR MAP

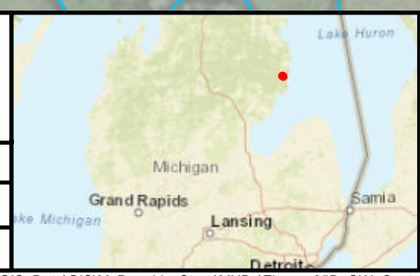
MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_05A_Top_of_Clay_Elev_Contours.mxd

Aerial: ESRI World Imagery

AECOM

Drawn:	DP	Date: 10/3/2022
Approved:	MC	Date: 10/3/2022
Project #:	60681598	



Legend

- Monitoring Well
- Groundwater Contour (1 ft interval)
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Groundwater Flow Direction
- Surface Water Flow Direction

Monitoring Well ID
Groundwater Elevation (ft-AMSL)

N

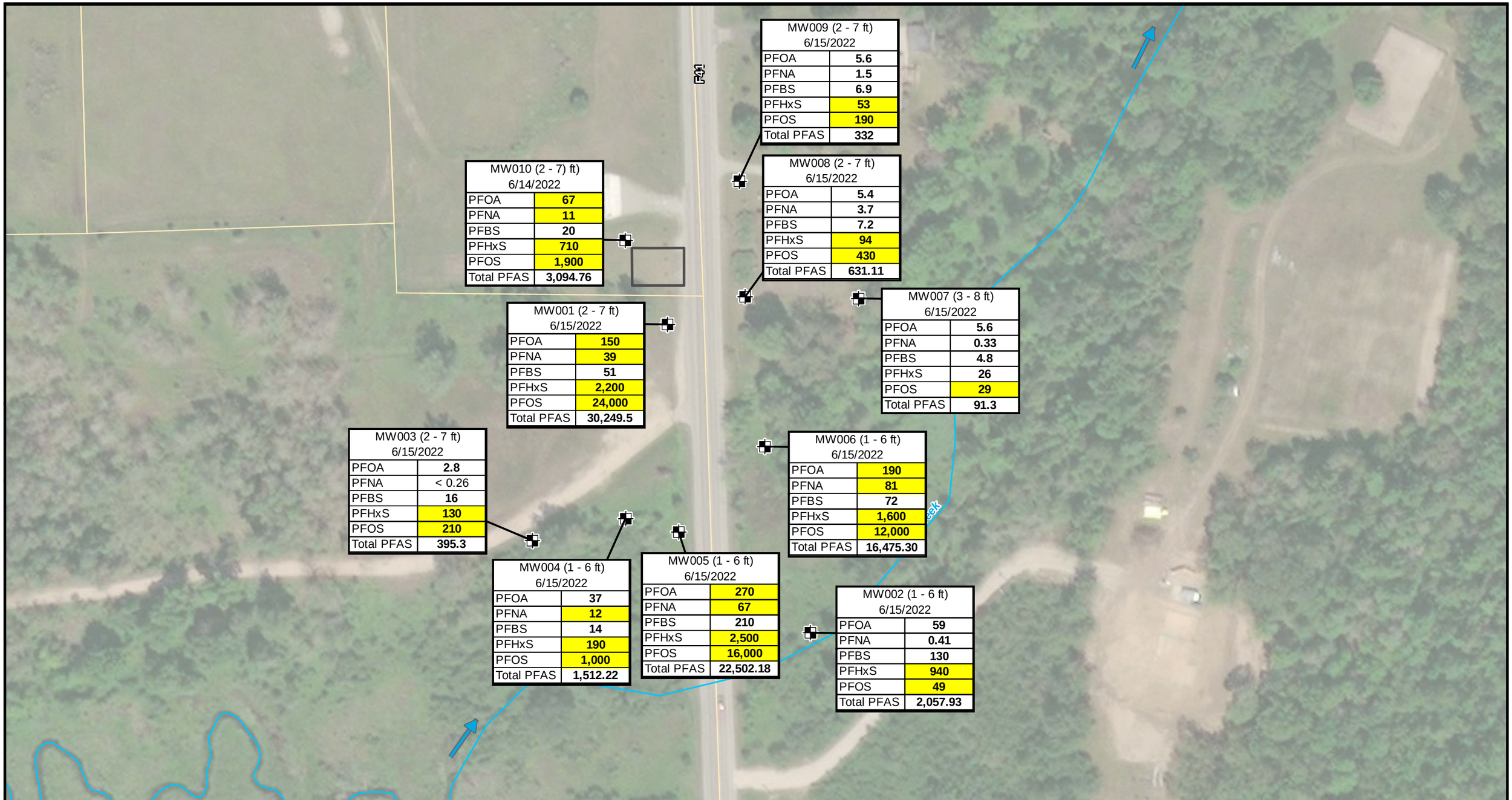
0 100 200 Feet

FIGURE 5B
GROUNDWATER CONTOUR MAP - JUNE 2022

FORMER MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_05B_GW_Contours_June2022.mxd

Aerial: ESRI World Imagery



AECOM

Drawn:	DP	Date: 10/3/2022
Approved:	MC	Date: 10/3/2022
Project #:	60681598	

Legend

- Monitoring Well
- Approximate Former Building Location
- Approximate Parcel Boundary
- Surface Water Body
- Surface Water Flow Direction

Analytical results are in ng/l or ppt

Exceeds Michigan Part 201 Criteria

N

0 100 200 Feet

FIGURE 6
GROUNDWATER SAMPLING RESULTS - JUNE 2022

FORMER MCDONALD'S STORE
IOSCO COUNTY, MI

Document Path: L:\DCS\GIS\ArcMap_GeoDB_Projects\ENV\GIS_Data\GIS\McDonalds_Store\MXDs\Figure_06_GW_Chembox.mxd

Tables

Table 1 - PFAS Families and Abbreviations
Former McDonald's Country Store
Oscoda, Michigan

Chemical Name	Abbreviation	Cas Number
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorooctanoic acid - linear isomer	L-PFOA	NA
Perfluorooctanoic acid - branched isomer	Br-PFOA	NA
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTeDA	376-06-7
Perfluorodecane sulfonic acid	PFDS	335-77-3
Perfluorobutane sulfonic acid	PFBS	375-73-5
Perfluoropentane sulfonic acid	PFPeS	2706-91-4
Perfluorohexane sulfonic acid	PFHxS	355-46-4
Perfluorohexane sulfonic acid - linear isomer	L-PFHxS	NA
Perfluorohexane sulfonic acid - branched isomer	Br-PFHxS	NA
Perfluoroheptane sulfonic acid	PFHpS	375-92-8
Perfluorooctane sulfonic acid	PFOS	1763-23-1
Perfluorooctane sulfonic acid - linear isomer	L-PFOS	NA
Perfluorooctane sulfonic acid - branched isomer	Br-PFOS	NA
Decafluoro-4-(pentafluoroethyl) cyclohexanesulfonic acid	PFeCHS	646-83-3
Perfluorononane sulfonic acid	PFNS	68259-12-1
Perfluoro-1-butanesulfonamide	PFBSA	30334-69-1
Perfluorohexane sulfonamide	PFHxSA	41997-13-1
Perfluorooctanesulfonamide	PFOSA	754-91-6
4:2 Fluorotelomer sulfonic acid	4:2 FTS	757124-72-4
6:2 Fluorotelomer sulfonic acid	6:2 FTS	27619-97-2
8:2 Fluorotelomer sulfonic acid	8:2 FTS	39108-34-4
N-Ethyl Perfluorooctane sulfonamindo acetic acid	N-EtFOSAA	2991-50-6
N-Ethyl Perfluorooctane sulfonamindo acetic acid - linear isomer	L-N-EtFOSAA	NA
N-Ethyl Perfluorooctane sulfonamindo acetic acid - branched isomer	Br-N-EtFOSAA	NA
N-Methyl Perfluorooctane sulfonamide	N-MeFOSAA	2355-31-9
N-Methyl Perfluorooctane sulfonamide - linear isomer	L-N-MeFOSAA	NA
N-Methyl Perfluorooctane sulfonamide - branched isomer	Br-N-MeFOSAA	NA
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
4,8-dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
9-chlorohexadecafluoro-3-oxane-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9

Perfluoroalkyl Carboxylic Acids (**PFCAs**)
Perfluoroalkane Sulfonic Acids (**PFSAs**)
Perfluoroalkane Sulfonamides (**FASAs**)
Fluorotelomer Sulfonic Acids (**FTSAs**)
N-Ethyl Perfluoroalkane Sulfonamidoacetic Acids (**EtFASAAs**)
N-Methyl Perfluoroalkane Sulfonamidoacetic Acids (**MeFASAAs**)
PFAS Replacement compounds

NA = No CAS number

Table 2 - Monitoring Well Information and Gauge Data
Former McDonald's Country Store
Oscoda, Michigan

Monitoring Well ID	Screened Interval (feet bgs)	Y	X	TOC Elevation (feet amsl)	Ground Elevation (feet amsl)	Gauging Date	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet btoc)	Total Boring Depth (feet bgs)
MW001	2 to 7	435662.54	19931627.37	618.30	615.50	6/14/2022	5.24	613.06	8.5
MW002	1 to 6	435326.54	19931783.46	609.15	606.10	6/14/2022	1.21	607.94	6.2
MW003	2 to 7	435426.92	19931480.05	616.79	614.10	6/14/2022	6.65	610.14	10
MW004	1 to 6	435451.07	19931581.78	613.72	610.80	6/14/2022	4.92	608.80	10
MW005	1 to 6	435436.39	19931639.63	612.19	609.40	6/14/2022	4.18	608.01	10
MW006	1 to 6	435529.50	19931733.72	611.77	608.80	6/14/2022	3.72	608.05	6.5
MW007	3 to 8	435690.88	19931835.99	615.47	615.80	6/14/2022	2.94	612.53	10
MW008	2 to 7	435692.85	19931711.94	616.22	616.60	6/14/2022	2.95	613.27	10
MW009	2 to 7	435818.90	19931705.74	616.91	617.20	6/14/2022	2.30	614.61	10
MW010	2 to 7	435754.23	19931581.35	618.05	618.40	6/14/2022	2.52	615.53	10

bgs - below ground surface
amsl - above mean sea level
btoc - below top of casing
TOC - top of casing

Note:
Top of casing elevation taken at north edge of casing
Ground elevation taken on north side of well casing

Table 3 - Soil Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	MW001	MW001	MW003	MW003	MW003	MW004	MW007	MW007	MW008
	Sample	SO2206081000WPS	SO2206081005WPS	SO2206061840WPS	SO2206061850WPS	SO2206061850WPS-FD	SO2206070955WPS	SO2206071645WPS	SO2206071655WPS	SO2206071810WPS
	Sample ID	6/8/2022	6/8/2022	6/6/2022	6/6/2022	6/6/2022	6/7/2022	6/7/2022	6/7/2022	6/7/2022
	Depth Interval	0.5 - 1 ft	2 - 3 ft	0.5 - 1 ft	2 - 2.5 ft	2 - 2.5 ft	0.5 - 1 ft	0.5 - 1 ft	2 - 2.5 ft	0.5 - 1 ft
	Lab Report	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/g	**0.063**	< 0.057	**0.065**	**0.052**	< 0.054	**0.11**	**0.14**	**0.15**	**0.051**
PFPeA	ng/g	**0.05**	< 0.05	< 0.042	**0.067**	**0.062**	**0.099**	< 0.055	< 0.055	**0.051**
PFHxA	ng/g	**0.058**	< 0.038	**0.038**	< 0.035	< 0.037	**0.17**	**0.069**	**0.067**	**0.034**
PFHpA	ng/g	**0.068**	< 0.047	**0.055**	< 0.043	< 0.045	**0.15**	< 0.051	< 0.051	< 0.039
PFOA	ng/g	**0.087**	< 0.065	**0.068**	< 0.06	< 0.063	**0.23**	< 0.071	**0.092**	**0.14**
L-PFOA	ng/g	**0.087**	< 0.065	**0.068**	< 0.06	< 0.063	**0.23**	< 0.071	**0.092**	**0.14**
Br-PFOA	ng/g	< 0.061	< 0.065	< 0.055	< 0.06	< 0.063	< 0.068	< 0.071	< 0.071	< 0.054
PFNA	ng/g	**0.048**	**0.044**	< 0.023	< 0.025	< 0.026	< 0.028	< 0.029	< 0.03	**0.11**
PFDA	ng/g	< 0.055	< 0.059	< 0.05	< 0.054	< 0.057	< 0.062	< 0.064	< 0.065	< 0.049
PFUnDA	ng/g	**0.072**	**0.12**	< 0.043	< 0.047	< 0.05	< 0.054	< 0.056	< 0.057	< 0.043
PFDoDA	ng/g	< 0.034	< 0.037	< 0.031	< 0.034	< 0.035	< 0.038	< 0.04	< 0.04	< 0.031
PFTrDA	ng/g	< 0.024	< 0.026	< 0.022	< 0.024	< 0.025	< 0.027	< 0.028	< 0.028	< 0.021
PFTeDA	ng/g	< 0.042	< 0.045	< 0.038	< 0.042	< 0.044	< 0.047	< 0.05	< 0.05	< 0.038
PFDS	ng/g	**0.38**	**0.071**	< 0.054	< 0.059	< 0.061	< 0.067	< 0.07	< 0.07	< 0.053
PFBS	ng/g	< 0.043	< 0.047	< 0.039	< 0.043	< 0.045	< 0.049	< 0.051	< 0.051	< 0.039
PFPeS	ng/g	< 0.042	< 0.045	< 0.038	< 0.042	< 0.044	< 0.047	< 0.05	< 0.05	< 0.038
PFHxS	ng/g	**0.17**	**0.068**	**0.059**	< 0.033	< 0.034	**0.51**	**0.2**	**0.099**	< 0.03
L-PFHxS	ng/g	**0.17**	**0.068**	**0.059**	< 0.033	< 0.034	**0.51**	**0.2**	**0.099**	< 0.03
Br-PFHxS	ng/g	< 0.033	< 0.036	< 0.03	< 0.033	< 0.034	< 0.037	< 0.039	< 0.039	< 0.03
PFHpS	ng/g	< 0.056	< 0.06	< 0.051	< 0.055	< 0.058	< 0.063	< 0.066	< 0.066	< 0.05
PFOS	ng/g	**3.7**	**2.6**	**0.52**	**1.6**	**1.8**	**2.3**	**0.6**	**0.53**	**8.7**
L-PFOS	ng/g	**3.2**	**2.3**	**0.34**	**1.2**	**1.3**	**1.5**	**0.27**	**0.32**	**7.6**
Br-PFOS	ng/g	**0.46**	**0.31**	**0.18**	**0.41**	**0.45**	**0.84**	**0.33**	**0.21**	**1.1**
PFeCHS	ng/g	< 0.05	< 0.054	< 0.046	< 0.05	< 0.052	< 0.056	< 0.059	< 0.059	< 0.045
PFNS	ng/g	**0.48**	**0.38**	< 0.03	< 0.033	< 0.034	< 0.037	< 0.039	< 0.039	< 0.03
PFBSA	ng/g	< 0.033	< 0.036	< 0.03	< 0.033	< 0.034	< 0.037	< 0.039	< 0.039	< 0.03
PFHxSA	ng/g	**0.19**	**0.16**	< 0.035	< 0.038	< 0.04	< 0.044	< 0.046	< 0.046	< 0.035
PFOSA	ng/g	**0.096**	**0.31**	< 0.034	< 0.037	< 0.039	< 0.042	< 0.044	< 0.044	< 0.034
4:2 FTS	ng/g	< 0.058	< 0.063	< 0.053	< 0.058	< 0.06	< 0.065	< 0.068	< 0.069	< 0.052
6:2 FTS	ng/g	**0.14**	**0.061**	< 0.028	< 0.03	< 0.032	< 0.035	< 0.036	< 0.036	< 0.027
8:2 FTS	ng/g	**1.6**	**0.62**	< 0.036	< 0.039	< 0.041	< 0.045	< 0.047	< 0.047	< 0.036
N-EtFOSAA	ng/g	< 0.055	< 0.059	< 0.05	< 0.054	< 0.057	< 0.062	< 0.064	< 0.065	< 0.049
L-N-EtFOSAA	ng/g	< 0.055	< 0.059	< 0.05	< 0.054	< 0.057	< 0.062	< 0.064	< 0.065	< 0.049
Br-N-EtFOSAA	ng/g	< 0.026	< 0.028	< 0.024	< 0.026	< 0.027	< 0.029	< 0.031	< 0.031	< 0.023
N-MeFOSAA	ng/g	< 0.026	< 0.028	< 0.024	< 0.026	< 0.027	< 0.029	< 0.031	< 0.031	< 0.023
L-N-MeFOSAA	ng/g	< 0.026	< 0.028	< 0.024	< 0.026	< 0.027	< 0.029	< 0.031	< 0.031	< 0.023
Br-N-MeFOSAA	ng/g	< 0.055	< 0.059	< 0.05	< 0.054	< 0.057	< 0.062	< 0.064	< 0.065	< 0.049
HFPO-DA	ng/g	< 0.047	< 0.05	< 0.042	< 0.046	< 0.048	< 0.053	< 0.055	< 0.055	< 0.042
ADONA	ng/g	< 0.045	< 0.048	< 0.04	< 0.044	< 0.046	< 0.05	< 0.052	< 0.053	< 0.04
9Cl-PF3ONS	ng/g	< 0.04	< 0.043	< 0.036	< 0.039	< 0.041	< 0.045	< 0.047	< 0.047	< 0.036
11Cl-PF3OUdS	ng/g	< 0.035	< 0.038	< 0.032	< 0.035	< 0.037	< 0.04	< 0.042	< 0.042	< 0.032
Total PFAS	ng/g	**7.202**	**4.434**	**0.805**	**1.719**	**1.862**	**3.569**	**1.009**	**0.938**	**9.086**

Table 3 - Soil Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	MW008	MW009	MW009	MW010	MW010	MW010	SB001	SB001	SB002
	Sample	SO2206071810WPS-FD	SO2206081030WPS	SO2206081040WPS	SO2206081645WPS	SO2206081655WPS	SO2206081655WPS-FD	SO2206080940WPS	SO2206080945WPS	SO2206061745WPS
	Sample ID	6/7/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/6/2022
	Depth Interval	0.5 - 1 ft	0.5 - 1 ft	2 - 2.5 ft	0.5 - 1 ft	2.5 - 3 ft	2.5 - 3 ft	0.5 - 1 ft	1.5 - 2.5 ft	0.5 - 1 ft
	Lab Report	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/g	**0.075**	< 0.055	< 0.048	**0.17**	< 0.057	< 0.055	**0.094**	**0.063**	**0.062**
PFPeA	ng/g	**0.055**	< 0.049	< 0.043	**0.34**	**0.077**	**0.083**	**0.12**	**0.082**	< 0.045
PFHxA	ng/g	**0.033**	< 0.037	< 0.032	**0.2**	**0.038**	**0.043**	**0.097**	**0.068**	**0.035**
PFHpA	ng/g	< 0.039	< 0.045	< 0.04	**0.18**	< 0.047	< 0.045	**0.077**	**0.05**	< 0.041
PFOA	ng/g	**0.12**	**0.12**	< 0.055	**0.24**	< 0.066	< 0.063	**0.12**	**0.077**	< 0.058
L-PFOA	ng/g	**0.12**	**0.12**	< 0.055	**0.24**	< 0.066	< 0.063	**0.12**	**0.077**	< 0.058
Br-PFOA	ng/g	< 0.055	< 0.063	< 0.055	< 0.065	< 0.066	< 0.063	< 0.06	< 0.06	< 0.058
PFNA	ng/g	**0.1**	**0.11**	< 0.023	**0.38**	< 0.027	**0.029**	**0.38**	**0.16**	**0.039**
PFDA	ng/g	< 0.05	< 0.057	< 0.05	**0.11**	< 0.06	< 0.057	< 0.054	< 0.055	< 0.052
PFUnDA	ng/g	< 0.043	< 0.05	< 0.044	< 0.051	< 0.052	< 0.05	< 0.048	< 0.048	< 0.046
PFDoDA	ng/g	< 0.031	< 0.036	< 0.031	< 0.037	< 0.037	< 0.036	< 0.034	< 0.034	< 0.033
PFTrDA	ng/g	< 0.022	< 0.025	< 0.022	< 0.026	< 0.026	< 0.025	< 0.024	< 0.024	< 0.023
PFTeDA	ng/g	< 0.038	< 0.044	< 0.038	< 0.045	< 0.046	< 0.044	< 0.042	< 0.042	< 0.04
PFDS	ng/g	< 0.054	< 0.062	< 0.054	**0.093**	< 0.065	< 0.062	**0.093**	< 0.059	< 0.057
PFBS	ng/g	< 0.039	< 0.045	< 0.04	< 0.046	< 0.047	< 0.045	< 0.043	< 0.043	< 0.041
PFPeS	ng/g	< 0.038	< 0.044	< 0.038	**0.079**	< 0.046	< 0.044	< 0.042	< 0.042	< 0.04
PFHxS	ng/g	< 0.03	**0.056**	< 0.03	**2.1**	**0.13**	**0.13**	**0.46**	**0.43**	**0.046**
L-PFHxS	ng/g	< 0.03	**0.056**	< 0.03	**1.9**	**0.13**	**0.13**	**0.41**	**0.39**	**0.046**
Br-PFHxS	ng/g	< 0.03	< 0.034	< 0.03	**0.16**	< 0.036	< 0.035	**0.05**	**0.044**	< 0.032
PFHpS	ng/g	< 0.051	< 0.058	< 0.051	**0.18**	< 0.061	< 0.058	< 0.056	< 0.056	< 0.053
PFOS	ng/g	**8.1**	**3.8**	**1.6**	**170**	**7.1**	**7.7**	**38**	**18**	**2.2**
L-PFOS	ng/g	**7.2**	**3.7**	**1.5**	**160**	**5.2**	**5.7**	**27**	**12**	**1.9**
Br-PFOS	ng/g	**0.96**	**0.15**	**0.11**	**13**	**2.0**	**1.9**	**11**	**6.5**	**0.32**
PFeCHS	ng/g	< 0.045	< 0.052	< 0.046	< 0.054	< 0.055	< 0.052	< 0.05	< 0.05	< 0.048
PFNS	ng/g	< 0.03	< 0.034	< 0.03	**0.35**	< 0.036	< 0.035	**0.12**	< 0.033	< 0.032
PFBSA	ng/g	< 0.03	< 0.034	< 0.03	**0.089**	< 0.036	< 0.035	< 0.033	< 0.033	< 0.032
PFHxSA	ng/g	< 0.035	< 0.04	< 0.035	**4.1**	**0.076**	**0.086**	**0.19**	**0.053**	< 0.037
PFOSA	ng/g	< 0.034	< 0.039	< 0.034	**0.62**	< 0.041	< 0.039	**0.14**	< 0.037	< 0.036
4:2 FTS	ng/g	< 0.053	< 0.061	< 0.053	< 0.062	< 0.063	< 0.061	< 0.058	< 0.058	< 0.055
6:2 FTS	ng/g	< 0.028	< 0.032	< 0.028	**0.092**	**0.12**	**0.25**	**0.054**	**0.074**	< 0.029
8:2 FTS	ng/g	< 0.036	< 0.042	< 0.036	**0.28**	**0.18**	**0.2**	**1.1**	**0.32**	< 0.038
N-EtFOSAA	ng/g	< 0.05	< 0.057	< 0.05	< 0.059	< 0.06	< 0.057	< 0.054	< 0.055	< 0.052
L-N-EtFOSAA	ng/g	< 0.05	< 0.057	< 0.05	< 0.059	< 0.06	< 0.057	< 0.054	< 0.055	< 0.052
Br-N-EtFOSAA	ng/g	< 0.024	< 0.027	< 0.024	< 0.028	< 0.029	< 0.027	< 0.026	< 0.026	< 0.025
N-MeFOSAA	ng/g	< 0.024	< 0.027	< 0.024	< 0.028	< 0.029	< 0.027	< 0.026	< 0.026	< 0.025
L-N-MeFOSAA	ng/g	< 0.024	< 0.027	< 0.024	< 0.028	< 0.029	< 0.027	< 0.026	< 0.026	< 0.025
Br-N-MeFOSAA	ng/g	< 0.05	< 0.057	< 0.05	< 0.059	< 0.06	< 0.057	< 0.054	< 0.055	< 0.052
HFPO-DA	ng/g	< 0.042	< 0.049	< 0.043	< 0.05	< 0.051	< 0.049	< 0.046	< 0.047	< 0.045
ADONA	ng/g	< 0.04	< 0.046	< 0.041	< 0.048	< 0.048	< 0.046	< 0.044	< 0.044	< 0.042
9Cl-PF3ONS	ng/g	< 0.036	< 0.042	< 0.036	< 0.043	< 0.043	< 0.042	< 0.04	< 0.04	< 0.038
11Cl-PF3OUdS	ng/g	< 0.032	< 0.037	< 0.032	< 0.038	< 0.038	< 0.037	< 0.035	< 0.035	< 0.034
Total PFAS	ng/g	**8.483**	**4.086**	**1.60**	**179.603**	**7.721**	**8.521**	**41.045**	**19.377**	**2.382**

Table 3 - Soil Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	SB002	SB003	SB003	SB004	SB004	SB005	SB005	SB006	SB006
	Sample	SO2206061755WPS	SO2206061650WPS	SO2206061700WPS	SO2206071730WPS	SO2206071735WPS	SO2206081300WPS	SO2206081305WPS	SO2206081325WPS	SO2206081345WPS
	Sample ID	6/6/2022	6/6/2022	6/6/2022	6/7/2022	6/7/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022
	Depth Interval	2 - 3 ft	0.5 - 1 ft	2 - 2.5 ft	0.5 - 1 ft	2 - 2.5 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft
	Lab Report	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/g	< 0.055	**0.36**	**0.13**	**0.061**	< 0.057	**0.13**	**0.08**	**0.094**	< 0.052
PFPeA	ng/g	< 0.049	**0.78**	**0.37**	< 0.039	< 0.051	**0.15**	**0.077**	**0.14**	< 0.047
PFHxA	ng/g	< 0.037	**1.3**	**0.77**	**0.097**	< 0.038	**0.15**	**0.14**	**0.1**	< 0.035
PFHpA	ng/g	< 0.045	**0.97**	**0.54**	**0.059**	< 0.047	**0.083**	**0.055**	**0.067**	< 0.043
PFOA	ng/g	< 0.063	**2.1**	**0.85**	< 0.051	< 0.066	**0.21**	**0.072**	**0.13**	< 0.06
L-PFOA	ng/g	< 0.063	**2.1**	**0.85**	< 0.051	< 0.066	**0.21**	**0.072**	**0.13**	< 0.06
Br-PFOA	ng/g	< 0.063	< 0.066	< 0.062	< 0.051	< 0.066	< 0.057	< 0.06	< 0.055	< 0.06
PFNA	ng/g	< 0.026	**0.46**	**0.065**	< 0.021	< 0.027	**0.15**	< 0.025	**0.032**	< 0.025
PFDA	ng/g	< 0.057	< 0.06	< 0.057	< 0.046	< 0.059	< 0.051	< 0.055	< 0.05	< 0.055
PFUnDA	ng/g	< 0.05	< 0.052	< 0.049	< 0.04	< 0.052	< 0.045	< 0.048	< 0.044	< 0.048
PFDoDA	ng/g	< 0.036	< 0.037	< 0.035	< 0.029	< 0.037	< 0.032	< 0.034	< 0.031	< 0.034
PFTrDA	ng/g	< 0.025	< 0.026	< 0.025	< 0.02	< 0.026	< 0.022	< 0.024	< 0.022	< 0.024
PFTeDA	ng/g	< 0.044	< 0.046	< 0.044	< 0.035	< 0.046	< 0.04	< 0.042	< 0.038	< 0.042
PFDS	ng/g	< 0.062	< 0.065	< 0.061	< 0.05	< 0.064	< 0.056	< 0.059	< 0.054	< 0.059
PFBS	ng/g	< 0.045	**0.073**	**0.12**	< 0.036	< 0.047	< 0.041	**0.053**	< 0.04	< 0.043
PFPeS	ng/g	< 0.044	**0.13**	**0.23**	< 0.035	< 0.046	< 0.04	**0.062**	< 0.038	< 0.042
PFHxS	ng/g	< 0.034	**4.6**	**5.7**	**0.086**	< 0.036	**0.47**	**0.99**	**0.15**	**0.086**
L-PFHxS	ng/g	< 0.034	**4.3**	**5.1**	**0.086**	< 0.036	**0.43**	**0.88**	**0.15**	**0.086**
Br-PFHxS	ng/g	< 0.034	**0.3**	**0.59**	< 0.028	< 0.036	**0.039**	**0.11**	< 0.03	< 0.033
PFHpS	ng/g	< 0.058	**0.16**	< 0.058	< 0.047	< 0.061	< 0.052	< 0.056	< 0.051	< 0.056
PFOS	ng/g	**2.4**	**7.9**	**1.9**	**0.64**	**0.32**	**8.1**	**0.74**	**1.9**	**1.5**
L-PFOS	ng/g	**1.8**	**5.9**	**1.4**	**0.24**	**0.26**	**7.3**	**0.32**	**1.7**	**1.3**
Br-PFOS	ng/g	**0.54**	**2.0**	**0.55**	**0.4**	**0.058**	**0.81**	**0.43**	**0.21**	**0.27**
PFeCHS	ng/g	< 0.052	< 0.055	< 0.052	< 0.042	< 0.055	< 0.047	< 0.05	< 0.046	< 0.05
PFNS	ng/g	< 0.034	< 0.036	< 0.034	< 0.028	< 0.036	< 0.031	< 0.033	< 0.03	< 0.033
PFBSA	ng/g	< 0.034	**0.038**	< 0.034	< 0.028	< 0.036	< 0.031	< 0.033	< 0.03	< 0.033
PFHxSA	ng/g	< 0.04	**0.042**	< 0.04	< 0.032	< 0.042	< 0.036	< 0.039	< 0.035	< 0.039
PFOSA	ng/g	< 0.039	< 0.041	< 0.039	< 0.031	< 0.041	< 0.035	< 0.038	< 0.034	< 0.038
4:2 FTS	ng/g	< 0.061	< 0.063	< 0.06	< 0.049	< 0.063	< 0.055	< 0.058	< 0.053	< 0.058
6:2 FTS	ng/g	< 0.032	< 0.034	< 0.032	< 0.026	< 0.033	< 0.029	< 0.031	< 0.028	< 0.031
8:2 FTS	ng/g	< 0.042	< 0.043	< 0.041	< 0.033	< 0.043	< 0.037	< 0.04	< 0.036	< 0.04
N-EtFOSAA	ng/g	< 0.057	< 0.06	< 0.057	< 0.046	< 0.059	< 0.051	< 0.055	< 0.05	< 0.055
L-N-EtFOSAA	ng/g	< 0.057	< 0.06	< 0.057	< 0.046	< 0.059	< 0.051	< 0.055	< 0.05	< 0.055
Br-N-EtFOSAA	ng/g	< 0.027	< 0.029	< 0.027	< 0.022	< 0.028	< 0.025	< 0.026	< 0.024	< 0.026
N-MeFOSAA	ng/g	< 0.027	< 0.029	< 0.027	< 0.022	< 0.028	< 0.025	< 0.026	< 0.024	< 0.026
L-N-MeFOSAA	ng/g	< 0.027	< 0.029	< 0.027	< 0.022	< 0.028	< 0.025	< 0.026	< 0.024	< 0.026
Br-N-MeFOSAA	ng/g	< 0.057	< 0.06	< 0.057	< 0.046	< 0.059	< 0.051	< 0.055	< 0.05	< 0.055
HFPO-DA	ng/g	< 0.049	< 0.051	< 0.048	< 0.039	< 0.051	< 0.044	< 0.047	< 0.043	< 0.047
ADONA	ng/g	< 0.046	< 0.048	< 0.046	< 0.037	< 0.048	< 0.042	< 0.044	< 0.041	< 0.044
9Cl-PF3ONS	ng/g	< 0.042	< 0.043	< 0.041	< 0.033	< 0.043	< 0.037	< 0.04	< 0.036	< 0.04
11Cl-PF3OUdS	ng/g	< 0.037	< 0.038	< 0.036	< 0.03	< 0.038	< 0.033	< 0.035	< 0.032	< 0.035
Total PFAS	ng/g	**2.40**	**18.913**	**10.675**	**0.943**	**0.320**	**9.443**	**2.269**	**2.613**	**1.586**

Table 3 - Soil Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	SB007	SB007	SB008	SB008	SB009	SB009	SB010	SB010	SB011	SB011
	Sample	SO2206081425WPS	SO2206081440WPS	SO2206081550WPS	SO2206081600WPS	SO2206081745WPS	SO2206081755WPS	SO2206081830WPS	SO2206081845WPS	SO2206081900WPS	SO2206081910WPS
	Sample ID	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022	6/8/2022
	Depth Interval	0.5 - 1 ft	2 - 2.5 ft	0.5 - 1 ft	2 - 3 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft
	Lab Report	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146	240-168146
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/g	< 0.047	< 0.055	< 0.052	< 0.055	**0.13**	< 0.061	**0.096**	**0.16**	**0.58**	**0.11**
PFPeA	ng/g	< 0.042	**0.081**	**0.062**	< 0.049	**0.36**	**0.091**	**0.12**	**0.44**	**0.98**	**0.14**
PFHxA	ng/g	< 0.032	**0.21**	**0.067**	< 0.037	**0.48**	**0.16**	**0.1**	**0.48**	**1.8**	**0.23**
PFHpA	ng/g	< 0.039	**0.083**	< 0.043	< 0.045	**0.29**	**0.059**	**0.087**	**0.15**	**1.2**	**0.11**
PFOA	ng/g	< 0.055	**0.15**	**0.091**	< 0.063	**0.56**	**0.096**	**0.31**	**0.26**	**3.3**	**0.18**
L-PFOA	ng/g	< 0.055	**0.15**	**0.091**	< 0.063	**0.56**	**0.096**	**0.31**	**0.26**	**2.9**	**0.18**
Br-PFOA	ng/g	< 0.055	< 0.063	< 0.06	< 0.063	< 0.06	< 0.071	< 0.061	< 0.069	**0.39**	< 0.066
PFNA	ng/g	< 0.023	< 0.026	< 0.025	< 0.026	**0.064**	< 0.029	**0.19**	< 0.028	**1.6**	**0.24**
PFDA	ng/g	< 0.049	< 0.057	< 0.054	< 0.057	< 0.054	< 0.064	< 0.056	< 0.062	**1.9**	**0.065**
PFUnDA	ng/g	< 0.043	< 0.05	< 0.047	< 0.05	< 0.047	< 0.056	< 0.049	< 0.054	**1.6**	**0.062**
PFDoDA	ng/g	< 0.031	< 0.036	< 0.034	< 0.036	< 0.034	< 0.04	< 0.035	< 0.039	**0.15**	< 0.037
PFTrDA	ng/g	< 0.022	< 0.025	< 0.024	< 0.025	< 0.024	< 0.028	< 0.024	< 0.027	**0.035**	< 0.026
PFTeDA	ng/g	< 0.038	< 0.044	< 0.042	< 0.044	< 0.042	< 0.049	< 0.043	< 0.048	< 0.047	< 0.046
PFDS	ng/g	< 0.054	< 0.062	< 0.059	< 0.062	< 0.059	< 0.069	< 0.06	< 0.067	**3.1**	**0.63**
PFBS	ng/g	< 0.039	**0.08**	< 0.043	< 0.045	**0.053**	**0.058**	< 0.044	< 0.049	**0.81**	< 0.047
PFPeS	ng/g	< 0.038	**0.15**	**0.07**	< 0.044	**0.09**	**0.068**	< 0.043	**0.11**	**2.2**	**0.083**
PFHxS	ng/g	**0.13**	**2.1**	**1.1**	< 0.035	**2.4**	**1**	**1.4**	**2.4**	**30**	**1.9**
L-PFHxS	ng/g	**0.13**	**1.8**	**0.94**	< 0.035	**2.2**	**0.92**	**1.3**	**2.2**	**25**	**1.7**
Br-PFHxS	ng/g	< 0.03	**0.3**	**0.15**	< 0.035	**0.21**	**0.13**	**0.094**	**0.23**	**5**	**0.21**
PFHpS	ng/g	< 0.05	**0.095**	< 0.055	< 0.059	**0.075**	< 0.065	**0.096**	< 0.063	**3.5**	**0.11**
PFOS	ng/g	**3.0**	**5.2**	**2.2**	< 0.051	**5.4**	**1.2**	**17**	**1.6**	**530**	**60**
L-PFOS	ng/g	**2.7**	**3.2**	**1.5**	< 0.051	**3.2**	**0.7**	**13**	**0.9**	**390**	**50**
Br-PFOS	ng/g	**0.32**	**2.0**	**0.68**	< 0.051	**2.2**	**0.46**	**3.7**	**0.68**	**140**	**10**
PFeCHS	ng/g	< 0.045	< 0.053	< 0.05	< 0.053	< 0.05	< 0.059	< 0.051	< 0.057	< 0.055	< 0.055
PFNS	ng/g	< 0.03	< 0.035	< 0.033	< 0.035	< 0.033	< 0.039	**0.076**	< 0.038	**60**	**0.86**
PFBSA	ng/g	< 0.03	**0.12**	< 0.033	< 0.035	< 0.033	< 0.039	< 0.034	< 0.038	**1.5**	**0.12**
PFHxSA	ng/g	< 0.035	**0.11**	< 0.038	< 0.041	**0.045**	< 0.045	**0.061**	< 0.044	**52**	**1.8**
PFOSA	ng/g	< 0.034	< 0.039	< 0.037	< 0.039	< 0.037	< 0.044	< 0.038	< 0.043	**14**	**0.77**
4:2 FTS	ng/g	< 0.052	< 0.061	< 0.057	< 0.061	< 0.058	< 0.068	< 0.059	< 0.066	< 0.064	< 0.063
6:2 FTS	ng/g	< 0.028	< 0.032	< 0.03	< 0.032	< 0.031	< 0.036	< 0.031	< 0.035	**4.4**	**0.57**
8:2 FTS	ng/g	< 0.036	< 0.042	< 0.039	< 0.042	< 0.04	< 0.047	< 0.041	< 0.045	**15**	**2.6**
N-EtFOSAA	ng/g	< 0.049	< 0.057	< 0.054	< 0.057	< 0.054	< 0.064	< 0.056	< 0.062	**0.83**	< 0.06
L-N-EtFOSAA	ng/g	< 0.049	< 0.057	< 0.054	< 0.057	< 0.054	< 0.064	< 0.056	< 0.062	**0.59**	< 0.06
Br-N-EtFOSAA	ng/g	< 0.024	< 0.027	< 0.026	< 0.028	< 0.026	< 0.031	< 0.027	< 0.03	**0.072**	< 0.029
N-MeFOSAA	ng/g	< 0.024	< 0.027	< 0.026	< 0.028	< 0.026	< 0.031	< 0.027	< 0.03	**0.39**	< 0.029
L-N-MeFOSAA	ng/g	< 0.024	< 0.027	< 0.026	< 0.028	< 0.026	< 0.031	< 0.027	< 0.03	**0.32**	< 0.029
Br-N-MeFOSAA	ng/g	< 0.049	< 0.057	< 0.054	< 0.057	< 0.054	< 0.064	< 0.056	< 0.062	**0.24**	< 0.06
HFPO-DA	ng/g	< 0.042	< 0.049	< 0.046	< 0.049	< 0.046	< 0.055	< 0.048	< 0.053	< 0.052	< 0.051
ADONA	ng/g	< 0.04	< 0.047	< 0.044	< 0.047	< 0.044	< 0.052	< 0.045	< 0.051	< 0.049	< 0.049
9Cl-PF3ONS	ng/g	< 0.036	< 0.042	< 0.039	< 0.042	< 0.04	< 0.047	< 0.041	< 0.045	< 0.044	< 0.044
11Cl-PF3OUdS	ng/g	< 0.032	< 0.037	< 0.035	< 0.037	< 0.035	< 0.041	< 0.036	< 0.04	< 0.039	< 0.039
Total PFAS	ng/g	**3.13**	**8.379**	**3.590**	ND	**9.947**	**2.732**	**19.54**	**5.60**	**730.875**	**70.58**

Table 3 - Soil Analytical Data Footnotes
Former McDonald's Country Store
Oscoda, Michigan

< 2 = compound not detected above the method detection limit.

Bold values are concentrations detected above the method detection limit.

--- = compound not analyzed

CAS = Chemical Abstracts Service number

ft = foot

EGLE = Michigan Department of Environment, Great Lakes, and Energy

FD = field duplicate sample

N = standard environmental sample

NA = criterion or value is not available or, in the case of background and CAS numbers, not applicable.

ng/g = nanograms per gram

Table 4 - Water Well Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Residential Drinking Water Criteria	EGLE Part 201 Groundwater Surface Water Interface Criteria	Artesian Well	Artesian Well
	Sample			DW2206101030WPS	DW2206101030WPS-FD
	Sample Date			6/10/2022	6/10/2022
	Lab Report			240-168146	240-168146
Compound	Unit			Result	Result
PFBA	ng/l	NCE	NCE	< 2.1	< 2.1
PFPeA	ng/l	NCE	NCE	< 0.43	< 0.44
PFHxA	ng/l	400,000 (A)	NA	< 0.51	< 0.52
PFHpA	ng/l	NCE	NCE	< 0.22	< 0.22
PFOA	ng/l	8 (A)	170 (X)	< 0.75	< 0.76
L-PFOA	ng/l	NCE	NCE	< 0.75	< 0.76
Br-PFOA	ng/l	NCE	NCE	< 0.75	< 0.76
PFNA	ng/l	6 (A)	NA	< 0.24	< 0.24
PFDA	ng/l	NCE	NCE	< 0.27	< 0.28
PFUnDA	ng/l	NCE	NCE	< 0.97	< 0.98
PFDoDA	ng/l	NCE	NCE	< 0.48	< 0.49
PFTrDA	ng/l	NCE	NCE	< 1.1	< 1.2
PFTeDA	ng/l	NCE	NCE	< 0.64	< 0.65
PFDS	ng/l	NCE	NCE	< 0.28	< 0.29
PFBS	ng/l	420 (A)	670,000 (X)	< 0.18	< 0.18
PFPeS	ng/l	NCE	NCE	< 0.26	< 0.27
PFHxS	ng/l	51 (A)	NA	< 0.5	< 0.51
L-PFHxS	ng/l	NCE	NCE	< 0.5	< 0.51
Br-PFHxS	ng/l	NCE	NCE	< 0.5	< 0.51
PFHpS	ng/l	NCE	NCE	< 0.17	< 0.17
PFOS	ng/l	16 (A)	12 (X)	< 0.48	< 0.48
L-PFOS	ng/l	NCE	NCE	< 0.48	< 0.48
Br-PFOS	ng/l	NCE	NCE	< 0.48	< 0.48
PFeCHS	ng/l	NCE	NCE	< 0.4	< 0.4
PFNS	ng/l	NCE	NCE	< 0.33	< 0.33
PFBSA	ng/l	NCE	NCE	< 0.31	< 0.31
PFHxSA	ng/l	NCE	NCE	< 0.19	< 0.2
PFOSA	ng/l	NCE	NCE	< 0.86	< 0.87
4:2 FTS	ng/l	NCE	NCE	< 0.21	< 0.21
6:2 FTS	ng/l	NCE	NCE	< 2.2	< 2.2
8:2 FTS	ng/l	NCE	NCE	< 0.4	< 0.41
N-EtFOSAA	ng/l	NCE	NCE	< 1.1	< 1.2
L-N-EtFOSAA	ng/l	NCE	NCE	< 1.1	< 1.2
Br-N-EtFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1
N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1
L-N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1
Br-N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.2
9Cl-PF3ONS	ng/l	NCE	NCE	< 0.21	< 0.21
11Cl-PF3OUdS	ng/l	NCE	NCE	< 0.28	< 0.29
ADONA	ng/l	NCE	NCE	< 0.35	< 0.36
HFPO-DA	ng/l	NCE	NCE	< 1.3	< 1.3
Total PFAS	ng/l	NCE	NCE	ND	ND

Table 4 - Well Water Analytical Data Footnotes
Former McDonald's Country Store
Oscoda, Michigan

< 2 = compound not detected above the method detection limit.
Bold values are concentrations detected above the method detection limit.
--- = compound not analyzed
CAS = Chemical Abstracts Service number
EGLE = Michigan Department of Environment, Great Lakes, and Energy
Part 201 = Part 201 of Michigan's Act 451 of 1994, as amended
FD = field duplicate sample
N = standard environmental sample
NA = criterion or value is not available or, in the case of background and CAS numbers, not applicable.
NCE = no citeria established
ng/l = nanograms per liter
(A) = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

(X) = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Table 5 - Surface Water Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Groundwater Surface Water Interface Criteria	EGLE Rule 57 Water Quality Standards (FCV)	EGLE Rule 57 Water Quality Standards (AMV)	EGLE Rule 57 Water Quality Standards (FAV)	SW001	SW002	SW003	SW004	SW005	SW006	SW006
	Sample					SW2206141000WPS	SW2206141100WPS	SW2206141145WPS	SW2206141320WPS	SW2206141415WPS	SW2206141520WPS	SW2206141520WPS-FD
	Sample Date					6/14/2022	6/14/2022	6/14/2022	6/14/2022	6/14/2022	6/14/2022	6/14/2022
	Lab Report					240-168450	240-168450	240-168450	240-168450	240-168450	240-168450	240-168450
Compound	Unit					Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	NCE	NCE	NCE	NCE	< 2.2	< 2.3	< 2.2	< 2.3	< 2.3	**5.8**	**6.1**
PFPeA	ng/l	NCE	NCE	NCE	NCE	**1.0**	**1.1**	< 0.46	< 0.46	< 0.46	**0.59**	**0.84**
PFHxA	ng/l	NA	NCE	NCE	NCE	**1.9**	**1.9**	**0.8**	< 0.55	< 0.55	**1.1**	**1.1**
PFHpA	ng/l	NCE	NCE	NCE	NCE	**0.8**	**0.95**	**0.55**	**0.35**	**0.27**	**0.78**	**0.67**
PFOA	ng/l	170 (X)	880,000	7,700,000	15,000,000	**1.1**	**1.0**	< 0.79	< 0.8	< 0.8	**1.0**	**1.1**
L-PFOA	ng/l	NCE	NCE	NCE	NCE	**1.1**	**1.0**	< 0.79	< 0.8	< 0.8	**1.0**	**1.1**
Br-PFOA	ng/l	NCE	NCE	NCE	NCE	< 0.79	< 0.81	< 0.79	< 0.8	< 0.8	< 0.78	< 0.79
PFNA	ng/l	NA	NCE	NCE	NCE	< 0.25	**0.33**	**0.34**	< 0.25	< 0.25	< 0.25	< 0.25
PFDA	ng/l	NCE	NCE	NCE	NCE	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
PFUnDA	ng/l	NCE	NCE	NCE	NCE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PFDoDA	ng/l	NCE	NCE	NCE	NCE	< 0.51	< 0.52	< 0.51	< 0.52	< 0.52	< 0.51	< 0.51
PFTrDA	ng/l	NCE	NCE	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
PFTeDA	ng/l	NCE	NCE	NCE	NCE	< 0.68	< 0.69	< 0.68	< 0.69	< 0.69	< 0.67	< 0.68
PFDS	ng/l	NCE	NCE	NCE	NCE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
PFBS	ng/l	670,000 (X)	24,000,000	120,000,000	240,000,000	**0.79**	**0.73**	**0.3**	**0.23**	< 0.19	**1.0**	**1.0**
PFPeS	ng/l	NCE	NCE	NCE	NCE	**0.61**	**0.59**	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
PFHxS	ng/l	NA	NCE	NCE	NCE	**6.7**	**6.6**	**1.8**	**0.56**	< 0.54	**0.58**	**0.57**
L-PFHxS	ng/l	NCE	NCE	NCE	NCE	**5.8**	**5.6**	**1.8**	**0.56**	< 0.54	**0.58**	**0.57**
Br-PFHxS	ng/l	NCE	NCE	NCE	NCE	**0.93**	**0.96**	< 0.53	< 0.54	< 0.54	< 0.53	< 0.53
PFHpS	ng/l	NCE	NCE	NCE	NCE	**0.34**	**0.33**	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
PFOS	ng/l	12 (X)	140,000	780,000	1,600,000	**20**	**18**	**15**	**2.3**	**1.3**	< 0.5	< 0.5
L-PFOS	ng/l	NCE	NCE	NCE	NCE	**12**	**11**	**10**	**1.7**	**1.3**	< 0.5	< 0.5
Br-PFOS	ng/l	NCE	NCE	NCE	NCE	**7.7**	**7.2**	**4.6**	**0.61**	< 0.51	< 0.5	< 0.5
PFeCHS	ng/l	NCE	NCE	NCE	NCE	< 0.42	< 0.43	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
PFNS	ng/l	NCE	NCE	NCE	NCE	< 0.34	< 0.35	< 0.35	< 0.35	< 0.35	< 0.34	< 0.35
PFBSA	ng/l	NCE	NCE	NCE	NCE	< 0.32	< 0.33	< 0.32	< 0.33	< 0.33	< 0.32	< 0.32
PFHxSA	ng/l	NCE	NCE	NCE	NCE	**0.46**	**0.44**	**0.29**	< 0.21	< 0.21	< 0.2	< 0.2
PFOSA	ng/l	NCE	NCE	NCE	NCE	< 0.91	< 0.93	< 0.91	< 0.92	< 0.92	< 0.9	< 0.92
4:2 FTS	ng/l	NCE	NCE	NCE	NCE	< 0.22	< 0.23	< 0.22	< 0.23	< 0.23	< 0.22	< 0.22
6:2 FTS	ng/l	NCE	NCE	NCE	NCE	< 2.3	< 2.4	< 2.3	< 2.4	< 2.4	< 2.3	< 2.3
8:2 FTS	ng/l	NCE	NCE	NCE	NCE	< 0.43	< 0.44	< 0.43	< 0.43	< 0.43	< 0.42	< 0.43
N-EtFOSAA	ng/l	NCE	NCE	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
L-N-EtFOSAA	ng/l	NCE	NCE	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Br-N-EtFOSAA	ng/l	NCE	NCE	NCE	NCE	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
N-MeFOSAA	ng/l	NCE	NCE	NCE	NCE	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
L-N-MeFOSAA	ng/l	NCE	NCE	NCE	NCE	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Br-N-MeFOSAA	ng/l	NCE	NCE	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
9Cl-PF3ONS	ng/l	NCE	NCE	NCE	NCE	< 0.22	< 0.23	< 0.22	< 0.23	< 0.23	< 0.22	< 0.22
11Cl-PF3OUdS	ng/l	NCE	NCE	NCE	NCE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
ADONA	ng/l	NCE	NCE	NCE	NCE	< 0.37	< 0.38	< 0.37	< 0.38	< 0.38	< 0.37	< 0.37
HFPO-DA	ng/l	NCE	NCE	NCE	NCE	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total PFAS	ng/l	NCE	NCE	NCE	NCE	**33.7**	**31.97**	**19.08**	**3.44**	**1.57**	**10.85**	**11.38**

Table 5 - Surface Water Analytical Data Footnotes
Former McDonald's Country Store
Oscoda, Michigan

< 2 = compound not detected above the method detection limit.
Bold values are concentrations detected above the method detection limit.
Shaded values exceed one or more Part 201 criteria.
--- = compound not analyzed
CAS = Chemical Abstracts Service number
EGLE = Michigan Department of Environment, Great Lakes, and Energy
HNV = Human noncancer value
FCV = Final chronic value
AMV = Aquatic maximum value
FAV = Final acute value
Part 201 = Part 201 of Michigan's Act 451 of 1994, as amended
FD = field duplicate sample
N = standard environmental sample
NCE = no citeria established
ng/l = nanograms per liter

(X) = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Table 6 - Sediment Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Groundwater Surface Water Interface Protection Criteria	EGLE Rule 57 Water Quality Standards (FCV)	EGLE Rule 57 Water Quality Standards (AMV)	EGLE Rule 57 Water Quality Standards (FAV)	SD001 East Bank	SD001 West Bank	SD001 Center	SD001 Center	SD002 East Bank	SD002 West Bank
	Sample					SD2206291235WPS	SD2206291240WPS	SD2206291245WPS	SD2206291245WPS-FD	SD2206291305WPS	SD2206291310WPS
	Sample Date					6/29/2022	6/29/2022	6/29/2022	6/29/2022	6/29/2022	6/29/2022
	Lab Report					240-19155	240-19155	240-19155	240-19155	240-19155	240-19155
Compound	Unit					Result	Result	Result	Result	Result	Result
PFBA	ng/g	NCE	NCE	NCE	NCE	< 0.056	**0.086**	< 0.056	< 0.055	< 0.059	**0.18**
PFPeA	ng/g	NCE	NCE	NCE	NCE	< 0.05	**0.062**	< 0.05	< 0.049	< 0.053	**0.32**
PFHxA	ng/g	NCE	NCE	NCE	NCE	< 0.037	**0.066**	< 0.038	< 0.037	< 0.04	**0.44**
PFHpA	ng/g	NCE	NCE	NCE	NCE	< 0.046	**0.071**	< 0.046	< 0.045	< 0.049	**0.21**
PFOA	ng/g	10,000 (X)	8.80E+08	7.70E+09	1.50E+10	< 0.064	**0.13**	< 0.065	< 0.063	< 0.068	**0.29**
L-PFOA	ng/g	NCE	NCE	NCE	NCE	< 0.064	**0.13**	< 0.065	< 0.063	< 0.068	**0.29**
Br-PFOA	ng/g	NCE	NCE	NCE	NCE	< 0.064	< 0.076	< 0.065	< 0.063	< 0.068	< 0.081
PFNA	ng/g	NCE	NCE	NCE	NCE	< 0.027	**0.096**	< 0.027	< 0.026	< 0.028	**0.052**
PFDA	ng/g	NCE	NCE	NCE	NCE	< 0.058	< 0.069	< 0.059	< 0.057	< 0.062	< 0.074
PFUnDA	ng/g	NCE	NCE	NCE	NCE	< 0.051	< 0.061	< 0.051	< 0.05	< 0.054	< 0.064
PFDoDA	ng/g	NCE	NCE	NCE	NCE	< 0.036	< 0.043	< 0.037	< 0.036	< 0.039	< 0.046
PFTrDA	ng/g	NCE	NCE	NCE	NCE	< 0.025	< 0.03	< 0.026	< 0.025	< 0.027	< 0.032
PFTeDA	ng/g	NCE	NCE	NCE	NCE	< 0.045	< 0.053	< 0.045	< 0.044	< 0.048	< 0.057
PFDS	ng/g	NCE	NCE	NCE	NCE	< 0.063	< 0.075	< 0.064	< 0.062	< 0.067	< 0.08
PFBS	ng/g	NCE	2.40E+10	1.20E+11	2.40E+11	< 0.046	< 0.055	< 0.046	< 0.045	< 0.049	**0.18**
PFPeS	ng/g	NCE	NCE	NCE	NCE	< 0.045	< 0.053	< 0.045	< 0.044	< 0.048	**0.2**
PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.042	< 0.035	< 0.035	< 0.037	**1.8**
L-PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.042	< 0.035	< 0.035	< 0.037	**1.6**
Br-PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.042	< 0.035	< 0.035	< 0.037	**0.17**
PFHpS	ng/g	NCE	NCE	NCE	NCE	< 0.059	< 0.071	< 0.06	< 0.059	< 0.063	< 0.075
PFOS	ng/g	0.24 (X)	1.40E+08	7.80E+08	1.60E+09	**0.6**	**11**	**0.35**	**0.61**	**0.92**	**7.2**
L-PFOS	ng/g	NCE	NCE	NCE	NCE	**0.5**	**10**	**0.25**	**0.52**	**0.78**	**6.5**
Br-PFOS	ng/g	NCE	NCE	NCE	NCE	**0.1**	**0.97**	**0.094**	**0.095**	**0.14**	**0.68**
PFeCHS	ng/g	NCE	NCE	NCE	NCE	< 0.053	< 0.063	< 0.054	< 0.053	< 0.057	< 0.067
PFNS	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.042	< 0.035	< 0.035	< 0.037	< 0.044
PFBSA	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.042	< 0.035	< 0.035	< 0.037	**0.13**
PFHxSA	ng/g	NCE	NCE	NCE	NCE	< 0.041	< 0.049	< 0.042	< 0.041	< 0.044	**0.1**
PFOSA	ng/g	NCE	NCE	NCE	NCE	< 0.04	< 0.048	< 0.04	< 0.039	< 0.043	< 0.051
4:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.062	< 0.074	< 0.062	< 0.061	< 0.066	< 0.078
6:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.033	< 0.039	< 0.033	< 0.032	< 0.035	< 0.041
8:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.042	< 0.05	< 0.043	< 0.042	< 0.045	< 0.054
N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.058	< 0.069	< 0.059	< 0.057	< 0.062	< 0.074
L-N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.058	< 0.069	< 0.059	< 0.057	< 0.062	< 0.074
Br-N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.028	< 0.033	< 0.028	< 0.028	< 0.03	< 0.035
N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.028	< 0.033	< 0.028	< 0.028	< 0.03	< 0.035
L-N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.028	< 0.033	< 0.028	< 0.028	< 0.03	< 0.035
Br-N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.058	< 0.069	< 0.059	< 0.057	< 0.062	< 0.074
9Cl-PF3ONS	ng/g	NCE	NCE	NCE	NCE	< 0.042	< 0.05	< 0.043	< 0.042	< 0.045	< 0.054
11Cl-PF3OUdS	ng/g	NCE	NCE	NCE	NCE	< 0.037	< 0.045	< 0.038	< 0.037	< 0.04	< 0.048
ADONA	ng/g	NCE	NCE	NCE	NCE	< 0.047	< 0.056	< 0.048	< 0.047	< 0.05	< 0.06
HFPO-DA	ng/g	NCE	NCE	NCE	NCE	< 0.05	< 0.059	< 0.05	< 0.049	< 0.053	< 0.063
Total PFAS	ng/g	NCE	NCE	NCE	NCE	**0.6**	**11.511**	**0.35**	**0.61**	**0.92**	**11.102**

Table 6 - Sediment Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Groundwater Surface Water Interface Protection Criteria	EGLE Rule 57 Water Quality Standards (FCV)	EGLE Rule 57 Water Quality Standards (AMV)	EGLE Rule 57 Water Quality Standards (FAV)	SD002 Center	SD003 South Bank	SD003 North Bank	SD003 Center	SD004 South Bank	SD004 North Bank
	Sample					SD2206291315WPS	SD2206291330WPS	SD2206291335WPS	SD2206291340WPS	SD2206291410WPS	SD2206291415WPS
	Sample Date					6/29/2022	6/29/2022	6/29/2022	6/29/2022	6/29/2022	6/29/2022
	Lab Report					240-19155	240-19155	240-19155	240-19155	240-19155	240-19155
Compound	Unit					Result	Result	Result	Result	Result	Result
PFBA	ng/g	NCE	NCE	NCE	NCE	< 0.053	**0.17**	**1**	< 0.062	**0.45**	**0.43**
PFPeA	ng/g	NCE	NCE	NCE	NCE	< 0.047	**0.56**	**4.3**	< 0.055	**0.084**	**0.1**
PFHxA	ng/g	NCE	NCE	NCE	NCE	< 0.036	**0.58**	**3.1**	< 0.042	**0.1**	**0.1**
PFHpA	ng/g	NCE	NCE	NCE	NCE	< 0.044	**0.27**	**1.3**	< 0.051	**0.15**	**0.19**
PFOA	ng/g	10,000 (X)	8.80E+08	7.70E+09	1.50E+10	< 0.061	**0.23**	**2.5**	< 0.071	**0.28**	**0.25**
L-PFOA	ng/g	NCE	NCE	NCE	NCE	< 0.061	**0.23**	**2.3**	< 0.071	**0.28**	**0.25**
Br-PFOA	ng/g	NCE	NCE	NCE	NCE	< 0.061	< 0.082	**0.15**	< 0.071	< 0.1	< 0.096
PFNA	ng/g	NCE	NCE	NCE	NCE	< 0.025	< 0.034	**0.97**	< 0.03	**0.19**	**0.13**
PFDA	ng/g	NCE	NCE	NCE	NCE	< 0.055	< 0.075	< 0.083	< 0.064	< 0.094	< 0.087
PFUnDA	ng/g	NCE	NCE	NCE	NCE	< 0.049	< 0.065	< 0.073	< 0.056	< 0.082	< 0.076
PFDoDA	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.047	< 0.052	< 0.04	< 0.059	< 0.055
PFTrDA	ng/g	NCE	NCE	NCE	NCE	< 0.024	< 0.033	< 0.036	< 0.028	< 0.041	< 0.038
PFTeDA	ng/g	NCE	NCE	NCE	NCE	< 0.043	< 0.057	< 0.064	< 0.05	< 0.072	< 0.067
PFDS	ng/g	NCE	NCE	NCE	NCE	< 0.06	< 0.081	< 0.09	< 0.07	< 0.1	< 0.095
PFBS	ng/g	NCE	2.40E+10	1.20E+11	2.40E+11	< 0.044	**0.067**	**0.72**	< 0.051	< 0.074	< 0.069
PFPeS	ng/g	NCE	NCE	NCE	NCE	< 0.043	**0.078**	**0.98**	< 0.05	< 0.072	< 0.067
PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.034	**0.79**	**14**	< 0.039	< 0.057	< 0.053
L-PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.034	**0.71**	**13**	< 0.039	< 0.057	< 0.053
Br-PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.034	**0.078**	**1.3**	< 0.039	< 0.057	< 0.053
PFHpS	ng/g	NCE	NCE	NCE	NCE	< 0.057	< 0.076	**2.6**	< 0.066	< 0.096	< 0.089
PFOS	ng/g	0.24 (X)	1.40E+08	7.80E+08	1.60E+09	**0.36**	**12**	**210**	**0.35**	**4.8**	**6.3**
L-PFOS	ng/g	NCE	NCE	NCE	NCE	**0.25**	**11**	**110**	**0.24**	**4.4**	**5.9**
Br-PFOS	ng/g	NCE	NCE	NCE	NCE	**0.11**	**0.98**	**96**	**0.11**	**0.32**	**0.43**
PFeCHS	ng/g	NCE	NCE	NCE	NCE	< 0.051	< 0.068	< 0.076	< 0.059	< 0.086	< 0.08
PFNS	ng/g	NCE	NCE	NCE	NCE	< 0.034	< 0.045	< 0.05	< 0.039	< 0.057	< 0.053
PFBSA	ng/g	NCE	NCE	NCE	NCE	< 0.034	< 0.045	**0.97**	< 0.039	< 0.057	< 0.053
PFHxSA	ng/g	NCE	NCE	NCE	NCE	< 0.039	**0.071**	**3.1**	< 0.046	< 0.066	< 0.062
PFOSA	ng/g	NCE	NCE	NCE	NCE	< 0.038	< 0.051	< 0.057	< 0.044	< 0.064	< 0.06
4:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.059	< 0.079	< 0.088	< 0.069	< 0.1	< 0.093
6:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.031	< 0.042	< 0.047	< 0.036	< 0.053	< 0.049
8:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.04	< 0.054	< 0.061	< 0.047	< 0.068	< 0.064
N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.055	< 0.075	< 0.083	< 0.064	< 0.094	< 0.087
L-N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.055	< 0.075	< 0.083	< 0.064	< 0.094	< 0.087
Br-N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.027	< 0.036	< 0.04	< 0.031	< 0.045	< 0.042
N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.027	< 0.036	< 0.04	< 0.031	< 0.045	< 0.042
L-N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.027	< 0.036	< 0.04	< 0.031	< 0.045	< 0.042
Br-N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.055	< 0.075	< 0.083	< 0.064	< 0.094	< 0.087
9Cl-PF3ONS	ng/g	NCE	NCE	NCE	NCE	< 0.04	< 0.054	< 0.061	< 0.047	< 0.068	< 0.064
11Cl-PF3OUdS	ng/g	NCE	NCE	NCE	NCE	< 0.036	< 0.048	< 0.054	< 0.042	< 0.061	< 0.056
ADONA	ng/g	NCE	NCE	NCE	NCE	< 0.045	< 0.061	< 0.068	< 0.052	< 0.076	< 0.071
HFPO-DA	ng/g	NCE	NCE	NCE	NCE	< 0.047	< 0.064	< 0.071	< 0.055	< 0.08	< 0.075
Total PFAS	ng/g	NCE	NCE	NCE	NCE	**0.36**	**14.816**	**245.54**	**0.35**	**6.054**	**7.5**

Table 6 - Sediment Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Groundwater Surface Water Interface Protection Criteria	EGLE Rule 57 Water Quality Standards (FCV)	EGLE Rule 57 Water Quality Standards (AMV)	EGLE Rule 57 Water Quality Standards (FAV)	SD004 Center	SD005 South Bank	SD005 North Bank	SD005 Center
	Sample					SD2206291420WPS	SD2206291435WPS	SD2206291440WPS	SD2206291445WPS
	Sample Date					6/29/2022	6/29/2022	6/29/2022	6/29/2022
	Lab Report					240-19155	240-19155	240-19155	240-19155
Compound	Unit					Result	Result	Result	Result
PFBA	ng/g	NCE	NCE	NCE	NCE	< 0.06	**0.16**	**0.47**	**5.63**
PFPeA	ng/g	NCE	NCE	NCE	NCE	< 0.054	< 0.068	**0.13**	**5.78**
PFHxA	ng/g	NCE	NCE	NCE	NCE	< 0.041	< 0.051	**0.098**	**5.43**
PFHpA	ng/g	NCE	NCE	NCE	NCE	< 0.05	< 0.063	**0.14**	**5.79**
PFOA	ng/g	10,000 (X)	8.80E+08	7.70E+09	1.50E+10	< 0.069	< 0.088	**0.35**	**5.53**
L-PFOA	ng/g	NCE	NCE	NCE	NCE	< 0.069	< 0.088	**0.35**	< 0.077
Br-PFOA	ng/g	NCE	NCE	NCE	NCE	< 0.069	< 0.088	< 0.094	< 0.077
PFNA	ng/g	NCE	NCE	NCE	NCE	< 0.029	**0.042**	**0.22**	**5.73**
PFDA	ng/g	NCE	NCE	NCE	NCE	< 0.063	< 0.079	< 0.085	**5.92**
PFUnDA	ng/g	NCE	NCE	NCE	NCE	< 0.055	< 0.069	< 0.075	**5.35**
PFDoDA	ng/g	NCE	NCE	NCE	NCE	< 0.039	< 0.05	< 0.053	**5.83**
PFTrDA	ng/g	NCE	NCE	NCE	NCE	< 0.028	< 0.035	< 0.037	**5.59**
PFTeDA	ng/g	NCE	NCE	NCE	NCE	< 0.049	< 0.061	< 0.066	**5.82**
PFDS	ng/g	NCE	NCE	NCE	NCE	< 0.068	< 0.086	< 0.093	**5**
PFBS	ng/g	NCE	2.40E+10	1.20E+11	2.40E+11	< 0.05	< 0.063	< 0.068	**5.03**
PFPeS	ng/g	NCE	NCE	NCE	NCE	< 0.049	< 0.061	< 0.066	**5.38**
PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.038	< 0.048	< 0.052	**4.99**
L-PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.038	< 0.048	< 0.052	< 0.042
Br-PFHxS	ng/g	NCE	NCE	NCE	NCE	< 0.038	< 0.048	< 0.052	< 0.042
PFHpS	ng/g	NCE	NCE	NCE	NCE	< 0.064	< 0.081	< 0.087	**5.84**
PFOS	ng/g	0.24 (X)	1.40E+08	7.80E+08	1.60E+09	< 0.056	**1.4**	**6.5**	**6.37**
L-PFOS	ng/g	NCE	NCE	NCE	NCE	< 0.056	**1.3**	**6.2**	**0.26**
Br-PFOS	ng/g	NCE	NCE	NCE	NCE	< 0.056	**0.16**	**0.35**	< 0.062
PFeCHS	ng/g	NCE	NCE	NCE	NCE	< 0.058	< 0.073	< 0.078	**5.37**
PFNS	ng/g	NCE	NCE	NCE	NCE	< 0.038	< 0.048	< 0.052	**5.62**
PFBSA	ng/g	NCE	NCE	NCE	NCE	< 0.038	< 0.048	< 0.052	**6.29**
PFHxSA	ng/g	NCE	NCE	NCE	NCE	< 0.045	< 0.056	< 0.06	**6.12**
PFOSA	ng/g	NCE	NCE	NCE	NCE	< 0.043	< 0.055	< 0.059	**5.66**
4:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.067	< 0.084	< 0.091	**5.29**
6:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.035	< 0.045	< 0.048	**5.77**
8:2 FTS	ng/g	NCE	NCE	NCE	NCE	< 0.046	< 0.058	< 0.062	**5.58**
N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.063	< 0.079	< 0.085	**5.86**
L-N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.063	< 0.079	< 0.085	< 0.069
Br-N-EtFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.03	< 0.038	< 0.041	< 0.033
N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.03	< 0.038	< 0.041	**5.94**
L-N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.03	< 0.038	< 0.041	< 0.033
Br-N-MeFOSAA	ng/g	NCE	NCE	NCE	NCE	< 0.063	< 0.079	< 0.085	< 0.069
9Cl-PF3ONS	ng/g	NCE	NCE	NCE	NCE	< 0.046	< 0.058	< 0.062	**5.84**
11Cl-PF3OUdS	ng/g	NCE	NCE	NCE	NCE	< 0.041	< 0.051	< 0.055	**4.89**
ADONA	ng/g	NCE	NCE	NCE	NCE	< 0.051	< 0.064	< 0.069	**6.21**
HFPO-DA	ng/g	NCE	NCE	NCE	NCE	< 0.054	< 0.068	< 0.073	**5.59**
Total PFAS	ng/g	NCE	NCE	NCE	NCE	ND	**1.602**	**7.908**	**175.04**

Table 6 - Sediment Analytical Data Footnotes
Former McDonald's Country Store
Oscoda, Michigan

NOTE: EGLE soil criteria are not applicable to sediment sample results. These criteria are presented for reference only.
< 2 = compound not detected above the method detection limit.
Bold values are concentrations detected above the method detection limit.
--- = compound not analyzed
CAS = Chemical Abstracts Service number
EGLE = Michigan Department of Environment, Great Lakes, and Energy
HNV = Human noncancer value
FCV = Final chronic value
AMV = Aquatic maximum value
FAV = Final acute value
Part 201 = Part 201 of Michigan's Act 451 of 1994, as amended
FD = field duplicate sample
N = standard environmental sample
NCE = no citeria established
ng/g = nanograms per gram

(X) = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Table 7 - Groundwater Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Residential Drinking Water Criteria	EGLE Part 201 Groundwater Surface Water Interface Criteria	MW001	MW002	MW003	MW004	MW005	MW006	MW007
	Sample			GW2206150920WPS	GW2206151620WPS	GW2206151040WPS	GW2206151130WPS	GW2206151220WPS	GW2206151405WPS	GW2206151650WPS
	Sample Date			2 - 7 ft	1 - 6 ft	2 - 7 ft	1 - 6 ft	1 - 6 ft	1 - 6 ft	3 - 8 ft
	Depth Interval			6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022
	Lab Report			240-168450	240-168450	240-168450	240-168450	240-168450	240-168450	240-168450
Compound	Unit			Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	NCE	NCE	**26**	**47**	**4.8**	**32**	**160**	**100**	**9**
PFPeA	ng/l	NCE	NCE	**90**	**180**	**2.5**	**83**	**520**	**340**	**5**
PFHxA	ng/l	400,000 (A)	NA	**110**	**330**	**7.2**	**48**	**950**	**450**	**5.2**
PFHpA	ng/l	NCE	NCE	**70**	**86**	**1.3**	**33**	**350**	**260**	**2.8**
PFOA	ng/l	8 (A)	170 (X)	**150**	**59**	**2.8**	**37**	**270**	**190**	**5.6**
L-PFOA	ng/l	NCE	NCE	**140**	**48**	**2.8**	**36**	**250**	**180**	**5.6**
Br-PFOA	ng/l	NCE	NCE	**13**	**11**	< 0.82	**1.3**	**23**	**13**	< 0.77
PFNA	ng/l	6 (A)	NA	**39**	**0.41**	< 0.26	**12**	**67**	**81**	**0.33**
PFDA	ng/l	NCE	NCE	**4.7**	< 0.29	< 0.3	< 0.3	**0.98**	**4.9**	< 0.28
PFUnDA	ng/l	NCE	NCE	**2.3**	< 1	< 1.1	< 1.1	< 1	< 1	< 1
PFDoDA	ng/l	NCE	NCE	< 0.5	< 0.52	< 0.53	< 0.53	< 0.52	< 0.51	< 0.5
PFTrDA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
PFTeDA	ng/l	NCE	NCE	< 0.66	< 0.68	< 0.71	< 0.7	< 0.69	< 0.68	< 0.66
PFDS	ng/l	NCE	NCE	< 0.29	< 0.3	< 0.31	< 0.31	< 0.3	< 0.3	< 0.29
PFBS	ng/l	420 (A)	670,000 (X)	**51**	**130**	**16**	**14**	**210**	**72**	**4.8**
PFPeS	ng/l	NCE	NCE	**120**	**140**	**14**	**16**	**250**	**110**	**2.1**
PFHxS	ng/l	51 (A)	NA	**2,200**	**940**	**130**	**190**	**2,500**	**1,600**	**26**
L-PFHxS	ng/l	NCE	NCE	**2,000**	**790**	**110**	**170**	**2,200**	**1,500**	**23**
Br-PFHxS	ng/l	NCE	NCE	**250**	**150**	**20**	**24**	**310**	**180**	**2.9**
PFHpS	ng/l	NCE	NCE	**260**	**6.1**	**2.8**	**9**	**180**	**56**	**0.47**
PFOS	ng/l	16 (A)	12 (X)	**24,000**	**49**	**210**	**1,000**	**16,000**	**12,000**	**29**
L-PFOS	ng/l	NCE	NCE	**16,000**	**10**	**160**	**780**	**10,000**	**9,500**	**15**
Br-PFOS	ng/l	NCE	NCE	**7,600**	**39**	**56**	**260**	**5,800**	**2,400**	**15**
PFeCHS	ng/l	NCE	NCE	< 0.41	< 0.42	< 0.44	< 0.43	< 0.42	< 0.42	< 0.41
PFNS	ng/l	NCE	NCE	**20**	< 0.35	< 0.36	< 0.35	**1.3**	**12**	< 0.34
PFBSA	ng/l	NCE	NCE	**310**	**39**	**1.4**	**23**	**170**	**100**	**1**
PFHxSA	ng/l	NCE	NCE	**1,600**	**5.7**	**2.5**	**5.2**	**390**	**660**	< 0.2
PFOSA	ng/l	NCE	NCE	**5**	< 0.92	< 0.95	< 0.94	< 0.92	**6.8**	< 0.89
4:2 FTS	ng/l	NCE	NCE	**1.5**	**0.72**	< 0.23	**0.32**	**6.9**	**2.6**	< 0.22
6:2 FTS	ng/l	NCE	NCE	**820**	**45**	< 2.4	**9.7**	**450**	**330**	< 2.3
8:2 FTS	ng/l	NCE	NCE	**370**	< 0.43	< 0.45	< 0.44	**26**	**100**	< 0.42
N-EtFOSAA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
L-N-EtFOSAA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
Br-N-EtFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1
N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1
L-N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1
Br-N-MeFOSAA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
9Cl-PF3ONS	ng/l	NCE	NCE	< 0.22	< 0.23	< 0.23	< 0.23	< 0.23	< 0.22	< 0.22
11Cl-PF3OUdS	ng/l	NCE	NCE	< 0.29	< 0.3	< 0.31	< 0.31	< 0.3	< 0.3	< 0.29
ADONA	ng/l	NCE	NCE	< 0.36	< 0.38	< 0.39	< 0.38	< 0.38	< 0.37	< 0.36
HFPO-DA	ng/l	NCE	NCE	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4
Total PFAS	ng/l	NCE	NCE	**30,249.5**	**2,057.93**	**395.3**	**1,512.22**	**22,502.18**	**16,475.30**	**91.3**

Table 7 - Groundwater Analytical Data
Former McDonald's Country Store
Oscoda, Michigan

	Location	EGLE Part 201 Residential Drinking Water Criteria	EGLE Part 201 Groundwater Surface Water Interface Criteria	MW008	MW009	MW010	MW010
	Sample			GW2206151535WPS	GW2206151800WPS	GW2206141750WPS	GW2206141750WPS-FD
	Sample Date			3 - 8 ft	2 - 7 ft	2 - 7 ft	2 - 7 ft
	Depth Interval			6/15/2022	6/15/2022	6/14/2022	6/14/2022
	Lab Report			240-168450	240-168450	240-168450	240-168450
Compound	Unit			Result	Result	Result	Result
PFBA	ng/l	NCE	NCE	**18**	**17**	**32**	**30**
PFPeA	ng/l	NCE	NCE	**23**	**16**	**77**	**76**
PFHxA	ng/l	400,000 (A)	NA	**24**	**19**	**55**	**56**
PFHpA	ng/l	NCE	NCE	**9.4**	**8.3**	**49**	**47**
PFOA	ng/l	8 (A)	170 (X)	**5.4**	**5.6**	**67**	**67**
L-PFOA	ng/l	NCE	NCE	**5.4**	**5.6**	**60**	**61**
Br-PFOA	ng/l	NCE	NCE	< 0.79	< 0.78	**6.5**	**6.5**
PFNA	ng/l	6 (A)	NA	**3.7**	**1.5**	**11**	**10**
PFDA	ng/l	NCE	NCE	**0.71**	**0.61**	**1.7**	**1.9**
PFUnDA	ng/l	NCE	NCE	< 1	< 1	< 1	< 0.99
PFDoDA	ng/l	NCE	NCE	< 0.51	< 0.5	< 0.51	< 0.49
PFTrDA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2
PFTeDA	ng/l	NCE	NCE	< 0.67	< 0.67	< 0.67	< 0.66
PFDS	ng/l	NCE	NCE	< 0.3	< 0.29	< 0.29	< 0.29
PFBS	ng/l	420 (A)	670,000 (X)	**7.2**	**6.9**	**20**	**20**
PFPeS	ng/l	NCE	NCE	**8**	**6.4**	**44**	**43**
PFHxS	ng/l	51 (A)	NA	**94**	**53**	**710**	**730**
L-PFHxS	ng/l	NCE	NCE	**83**	**46**	**640**	**660**
Br-PFHxS	ng/l	NCE	NCE	**10**	**6.8**	**75**	**75**
PFHpS	ng/l	NCE	NCE	**3.1**	**1.5**	**20**	**22**
PFOS	ng/l	16 (A)	12 (X)	**430**	**190**	**1,900**	**1,900**
L-PFOS	ng/l	NCE	NCE	**360**	**160**	**1,500**	**1,500**
Br-PFOS	ng/l	NCE	NCE	**72**	**33**	**460**	**450**
PFeCHS	ng/l	NCE	NCE	< 0.42	< 0.41	< 0.41	< 0.4
PFNS	ng/l	NCE	NCE	< 0.34	**0.39**	**0.66**	**0.68**
PFBSA	ng/l	NCE	NCE	**2.3**	**3.6**	**63**	**62**
PFHxSA	ng/l	NCE	NCE	**2.3**	**2.2**	**37**	**36**
PFOSA	ng/l	NCE	NCE	< 0.91	< 0.9	< 0.9	**0.88**
4:2 FTS	ng/l	NCE	NCE	< 0.22	< 0.22	< 0.22	< 0.22
6:2 FTS	ng/l	NCE	NCE	< 2.3	< 2.3	**4.8**	**4.2**
8:2 FTS	ng/l	NCE	NCE	< 0.43	< 0.42	**2.6**	**2.7**
N-EtFOSAA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2
L-N-EtFOSAA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2
Br-N-EtFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1	< 1.1	< 1.1
N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1	< 1.1	< 1.1
L-N-MeFOSAA	ng/l	NCE	NCE	< 1.1	< 1.1	< 1.1	< 1.1
Br-N-MeFOSAA	ng/l	NCE	NCE	< 1.2	< 1.2	< 1.2	< 1.2
9Cl-PF3ONS	ng/l	NCE	NCE	< 0.22	< 0.22	< 0.22	< 0.22
11Cl-PF3OUdS	ng/l	NCE	NCE	< 0.3	< 0.29	< 0.29	< 0.29
ADONA	ng/l	NCE	NCE	< 0.37	< 0.37	< 0.37	< 0.36
HFPO-DA	ng/l	NCE	NCE	< 1.4	< 1.4	< 1.4	< 1.3
Total PFAS	ng/l	NCE	NCE	**631.11**	**332**	**3,094.76**	**3,109.36**

Table 7 - Groundwater Analytical Data Footnotes
Former McDonald's Country Store
Oscoda, Michigan

< 2 = compound not detected above the method detection limit.
Bold values are concentrations detected above the method detection limit.
Shaded values exceed one or more Part 201 criteria.
--- = compound not analyzed
CAS = Chemical Abstracts Service number
ft = foot
EGLE = Michigan Department of Environment, Great Lakes, and Energy
HNV = Human noncancer value
FCV = Final chronic value
AMV = Aquatic maximum value
FAV = Final acute value
Part 201 = Part 201 of Michigan's Act 451 of 1994, as amended
FD = field duplicate sample
N = standard environmental sample
NA = criterion or value is not available or, in the case of background and CAS numbers, not applicable.
NCE = no citeria established
ng/l = nanograms per liter
(A) = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

(X) = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Table 8
Final Water Quality Parameters
Former McDonald's Country Store
Oscoda, Michigan

Location	Date	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	pH	Oxygen Reduction Potential (mV)	Turbidity (NTU)
MW001	6/15/2022	17.3	1.688	1.63	13.0*	19.6	35.20
MW002	6/15/2022	16.4	1.341	10.21*	7.55	45.0	29.92
MW003	6/15/2022	15.2	0.563	0.31	7.10	65.4	4.40
MW004	6/15/2022	16.8	0.331	5.97	4.20	4.2	157.93
MW005	6/15/2022	17.7	0.732	-0.06*	6.67	-63.4	6.12
MW006	6/15/2022	17.2	1.396	0.08	7.00	-98.2	4.90
MW007	6/15/2022	17.9	0.657	0.10	6.63	-30.0	27.07
MW008	6/15/2022	18.4	1.190	1.34	7.01	28.1	5.69
MW009	6/15/2022	19.5	1.348	6.40*	7.19	50.3	126.23
MW010	6/14/2022	22.3	0.620	7.92*	7.82	157.7	497.0

* - Potential sensor error

Appendix A –

Monitoring Well & Soil Boring Logs

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW001**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/06/22**
		DATE END:	**06/06/22**

DEPTH	DRILL TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger			OL		OL: Dark Brown POORLY GRADED SAND WITH SILT, non plastic, non cohesive, loose, with roots		
				SP	0.5 0.0	SP: Light Brown POORLY GRADED SAND, non plastic, non cohesive, 50% fine grained sand, 45% medium grained sand, 5% silt, dry loose	Bentonite 2" Dia	SO2206081000WPS @ 1000 0.5-1.0'
				CL	0.0 0.7	CL: Gray LEAN CLAY WITH SAND, 60% clay, 25% silt, 15% fine grained sand, massive, moist, stiff, mottled		SO2206081005WPS @ 1005 2.0-3.0'
				SM	0.0	SM: Brown POORLY GRADED SILTY SAND, 50% fine grained sand, 20% medium grained sand, 25% silt, 5% clay, quartz, wet, loose		
				CL	0.0	CL: Brown LEAN CLAY WITH SILT, 85% clay, 10% silt, 5% fine grained sand, moist, massive, very stiff, 5 mm lenses silt 5-6' bgs	Sand Pack Well Screen	
5					0.0			
					0.0 0.9			
	Direct Push				0.0			
					0.0		Native Collapse	
10					0.0			

NOTES: EOB@ 10.0 ft bgs, 3.0' Stick-Up

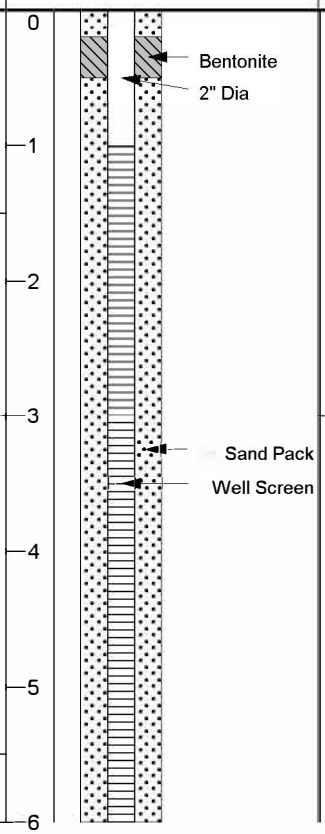
AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW002**
TOTAL DEPTH: **6.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Hand Auger**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hand Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**

DEPTH	DRILL TYPE	ATTEMPT	RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	SAMPLE
0	Hand Auger				OL	1.1	OL: Black SANDY ORGANIC SOIL, non plastic, non cohesive, 70% organic soil, 30% fine grained sand, moist, loose	No samples collected due to high organics and heavy saturation
					CL	0.8	CL: Gray SANDY LEAN CLAY, medium plasticity, cohesive, 75% clay, 25% fine grained sand, wet, soft, with roots	
					SP	2.3	SP: Brown POORLY GRADED SAND, non-plastic, non-cohesive, 60% fine grained sand, 35% medium grained sand, 5% silt, wet, loose, decomposing organic matter	
						0.5		
5						0.5		
					CL		CL: Gray LEAN CLAY, high plasticity, cohesive, 70% lean clay, 30% silt, wet, firm, decomposing organic material	

WELL CONSTRUCTION



NOTES: EOB@ 6.0 ft bgs, 3.0' Stick-Up

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW003**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/06/22**
		DATE END:	**06/07/22**

DEPTH	DRILL TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger			OL		OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic matter, 30% fine grained sand, 20% medium grained sand, dry, loose	0	
					2.1	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 70% fine grained sand, 20% medium grained sand, 5% gravel, 5% silt, mottled, dry, loose	1 Bentonite; 2" Dia	SO22060618 40WPS @ 1840 0.5-1.0'
					1.9	Transition to light brown	2	SO22060618 50WPS @ 1850 2.0-2.5'
					0.0		3	
					0.0		4 Sand Pack; Well Screen	
5				SP	0.0		5	
					0.0		6	
	Direct Push				0.0		7	
					0.0		8 Native Collapse	
					2.2		9	
10				SP-SC		SP-SC: Gray POORLY GRADED SAND WITH CLAY, non plastic, non cohesive, 60% fine grained sand, 25% medium grained sand, 15% clay, 5% silt, mottled, wet, firm	10	

NOTES: EOB@ 10.0 ft bgs, 3.0' Stick-Up

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW004**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**

DEPTH	DRILL TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0–1.5	Hand Auger			OL		OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organics, 25% clay, 15% fine grained sand, 10% medium grained sand, dry, loose	Bentonite; 2" Dia	SO2206070955WPS @ 0955 0.5-1.0'
1.5–3.0	Hand Auger			CL	2.2	CL: Brown SANDY LEAN CLAY, medium plasticity, cohesive, 70% clay, 20% fine grained sand, 5% medium grained sand, 5% silt, moist, firm		
3.0–3.5	Hand Auger			SP	0.0	SP: Brown POORLY GRADED SAND WITH SILT, non plastic, non cohesive, 60% fine grained sand, 30% medium grained sand, 10% silt, mottled, wet, loose, with organic matter		
3.5–5.0	Hand Auger			CL	3.1	CL: Gray LEAN CLAY, high plasticity, cohesive, 85% clay, 10% silt, 5% fine grained sand, mottled, moist, stiff, with 5 mm lenses of sand	Sand Pack; Well Screen	
5.0–6.0	Direct Push			CL	0.0			
6.0–7.0	Direct Push			CL	0.0			
7.0–8.0	Direct Push			CL	1.1			
8.0–9.0	Direct Push			CL	0.0		Native Collapse	
9.0–10.0	Direct Push			CL	0.0			
10.0	Direct Push			CL	0.0			

NOTES: EOB @ 10.0 ft bgs, 3.0' Stick-Up

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW005**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**

DEPTH	DRILL TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger			OL		OL: Black SANDY ORGANIC SOIL, non plastic, non cohesive, 60% organic soil, 30% fine grained sand, 10% medium grained sand, moist, loose	Bentonite; 2" Dia	No samples collected due to high organics and heavy saturation
				SP	0.0	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 30% medium grained sand, 5% silt, 5% organic matter, wet, loose		
				SM	1.7 / 0.0	SM: Dark Brown POORLY GRADED SILTY SAND, non plastic, non cohesive, 50% fine grained sand, 20% medium grained sand, 20% silt, 10% organic matter, wet, loose	Sand Pack; Well Screen	
				CL	1.6 / 0.0 / 2.4 / 0.0	CL: Gray/Green LEAN CLAY, high plasticity, non cohesive, 90% clay, 5% fine grained sand, 5% silt, wet, soft		
5	Direct Push							
				CL	0.0 / 0.0	CL: Gray LEAN CLAY, medium plasticity, cohesive, 75% clay, 25% silt, wet, firm	Native Collapse	
10								

NOTES: EOB @ 10.0 ft bgs, 3.0' stick-up

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW006**
TOTAL DEPTH: **6.5'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Hand Auger**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hand Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**

DEPTH	DRILL TYPE	ATTEMPT	RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger				OL		OL: Black SANDY ORGANIC SOIL, non plastic, non cohesive, 60% organic soil, 30% fine grained sand, 10% medium grained sand, moist, loose, Peat	Bentonite; 2" Dia	
					SP-SM	0.0	SP-SM: Brown POORLY GRADED SAND WITH SILT, non plastic, non cohesive, 60% fine grained sand, 30% medium grained sand, 10% silt, wet, loose, organic matter		No samples collected due to high organics and heavy saturation
					CL	1.5, 1.2, 1.8, 0.0, 0.0	CL: Gray LEAN CLAY, high plasticity, cohesive, 90% clay, 10% silt, wet, soft	Sand Pack; Well Screen; Fill Sand	
5									
10									

NOTES: EOB @ 6.5 ft bgs, 3.0' stick-up

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW007**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**

DEPTH	DRILL TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger			OL		OL: Dark Brown ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 30% fine grained sand, 20% medium grained sand, dry, roots		
				SM	0.7	SM: Brown/Red, POORLY GRADED SILTY SAND, non plastic, non cohesive, 50% fine grained sand, 25% medium grained sand, 20% silt, 5% gravel, dry, loose	2" Dia Bentonite	SO22060716 45WPS @ 1645 0.5-1.0'
					0.3			SO22060716 55WPS @ 1655 2.0-2.5'
					0.5			
					3.0			
5				SP	0.0	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 30% medium grained sand, 5% fine gravel, 5% silt, wet, loose, 0.25' lenses of organic matter and clay	Sand Pack; Well Screen	
	Direct Push				0.0			
					0.0			
					0.0			
					0.0		Native Collapse	
10				CL		CL: Gray LEAN CLAY, high plasticity, cohesive, 85% clay, 15% silt, wet, firm		

NOTES: EOB @ 10.0 ft bgs, Flush Mount

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW008**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**

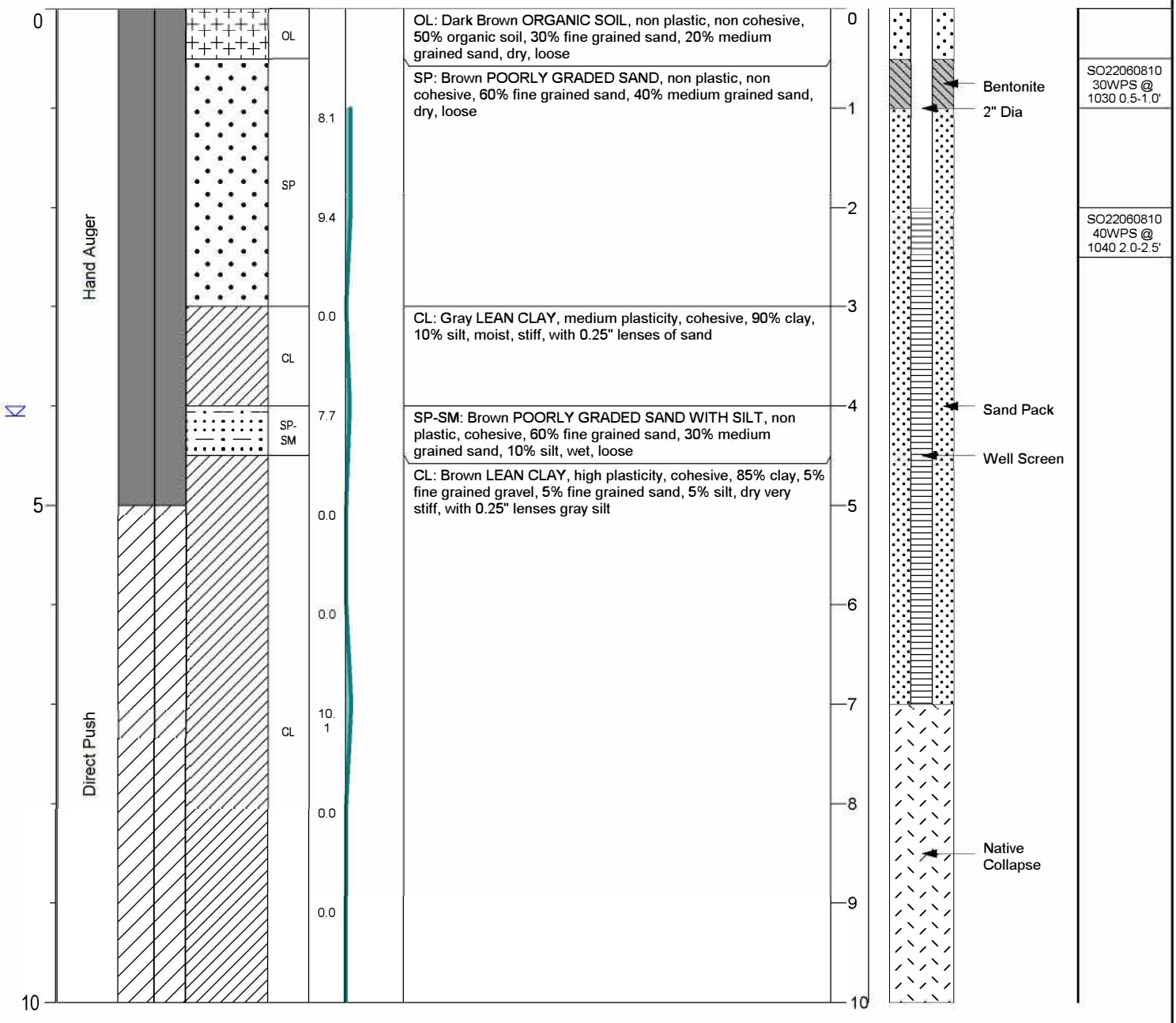
DEPTH	DRILL TYPE	ATTEMPT	RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger				OL		OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 30% fine grained sand, 20% medium grained sand, dry, loose, roots	Bentonite; 2" Dia	SO22060718 10WPS @ 1810 0.5-1.0'
					SP	9.3	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 70% fine grained sand,25% medium grained sand, 5% silt, dry, loose		
						0.0			
						8.2			
						11.5		Sand Pack; Well Screen	
5					CL	8.4	CL: Brown LEAN CLAY, high plasticity, cohesive, 85% clay, 10% silt, 5% fine grained gravel, moist, very stiff		
						0.0			
	Direct Push					0.0			
						0.0		Native Collapse	
						0.0			
10									

NOTES: EOB @ 10.0 ft bgs, Flush Mount

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW009**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



NOTES: EOB @ 10.0 ft bgs, Flush Mount

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **MW010**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hollow Stem Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/09/22**

DEPTH	DRILL TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	WELL CONSTRUCTION	SAMPLE
0	Hand Auger			OL		OL: Dark Brown ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 25% clay, 15% fine grained sand, 10% medium grained sand, dry, loose, with roots and building rubble	Bentonite; 2" Dia	SO22060816 45WPS @ 1645 0.5-1.0'
				SW	2.7	SW: Brown WELL GRADED SAND WITH GRAVEL, non plastic, non cohesive, 35% fine grained sand 25% medium grained sand, 20% coarse grained sand, 15% fine grained gravel, 5% silt, dry loose, building rubble		
				SP	2.1	SP: Light Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 35% medium grained sand, 5% silt, dry, loose, mottled		SO22060816 55WPS @ 1655 2.5-3.0'
				CL	1.7	CL: Brown LEAN CLAY, high plasticity, cohesive, 85% clay, 10% silt, 5% fine grained sand, moist, stiff, mottled		
					2.9		Sand Pack; Well Screen	
5	Direct Push				0.5	Increased Silt Content		
					0.0			
					0.0			
					0.0		Native Collapse	
					0.0			
10								

NOTES: EOB @ 10.0 ft bgs, Flush Mount

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB001**
TOTAL DEPTH: **8.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Hand Auger**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Hand Auger**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/06/22**
		DATE END:	**06/06/22**

DEPTH	SAMPLE TYPE	ATTEMPT / RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
0	Hand Auger			OL		OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 30% fine grained sand, 20% medium grained sand, dry, loose	
				SP	0.0	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 70% fine grained sand, 25% medium grained sand, 5% silt, moist, loose	SO2206080940WPS @ 0940 0.5-1.0'
				CL	0.0	CL: Gray LEAN CLAY, high plasticity, cohesive, 70% clay, 20% silt, 10% fine grained sand, moist, stiff, 1.0" seams of fine to medium grained sand	SO2206080945WPS @ 0945 1.5-2.5'
				SP-SM	0.0	SP-SM: Brown POORLY GRAINED SAND WITH SILT, non plastic, non cohesive, 65% fine grained sand, 20% medium grained sand, 10% silt, 5% clay, wet, loose	
				CL	0.0	CL: Brown LEAN CLAY, non plastic, non cohesive, 85% clay, 10% silt, 5% fine grained sand,	
5					0.0		
					0.0		
					0.0		
					0.0		
10							

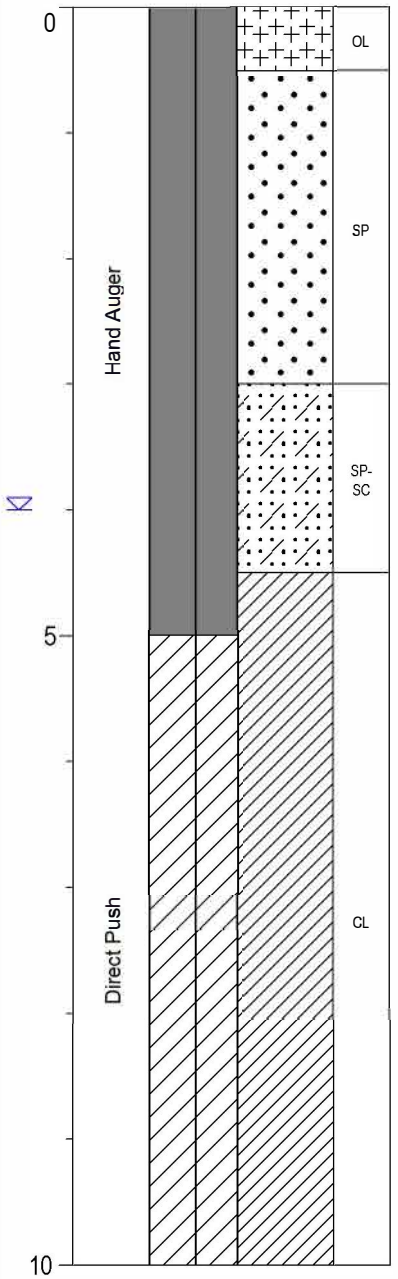
Depth scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

NOTES: EOB @ 8.0 ft bgs

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB002**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/06/22**
		DATE END:	**06/06/22**



PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 30% fine grained sand, 20% medium grained sand, dry, loose	
0.0	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 35% medium grained sand, 5% silt, moist, loose	SO2206061745WPS @ 1745 0.5-1.0'
0.0		
0.0		SO2206061755 @ 1755 2.0-3.0'
0.0	SP-SC: Brown POORLY GRADED SAND WITH CLAY, non plastic, non cohesive, 50% fine grained sand, 30% medium grained sand, 15% clay, 5% silt, wet, loose	
0.0	CL: Brown LEAN CLAY WITH SAND, medium plasticity, cohesive, 85% clay, 10% fine grained sand, 5% silt, moist, stiff, mottled	
0.0		
0.0		
0.0		
0.0		
0.0		

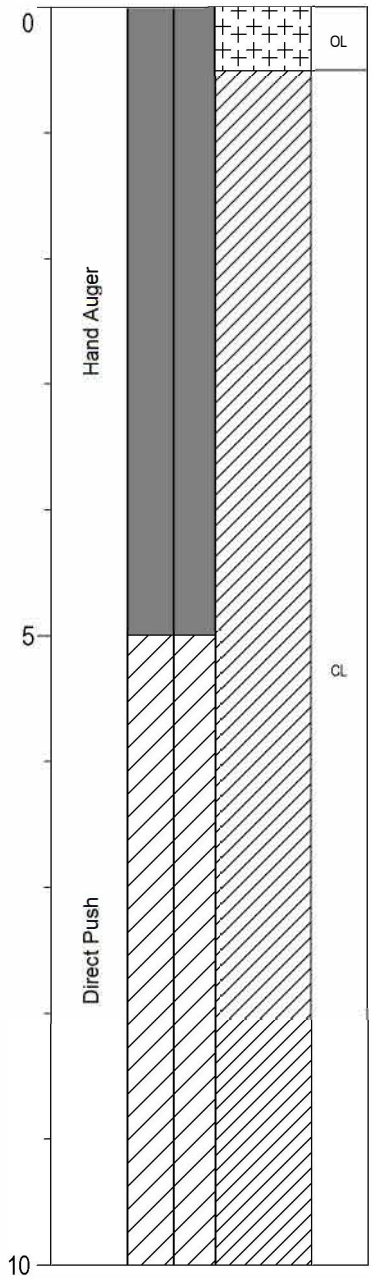
0 1 2 3 4 5 6 7 8 9 10

NOTES: EOB @ 10.0 ft bgs

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB003**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/06/22**
		DATE END:	**06/06/22**



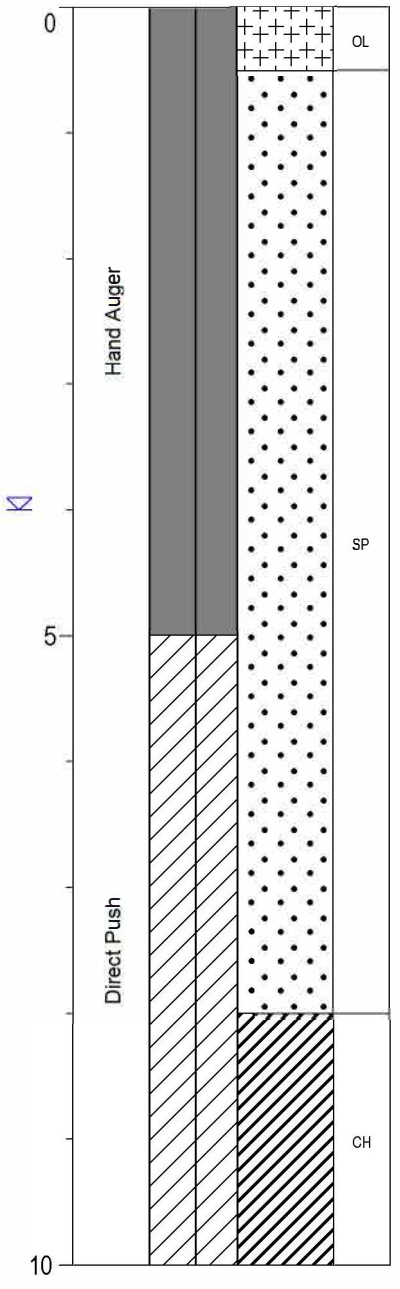
DEPTH	SAMPLE TYPE	ATTEMPT	RECOVERY	SOIL SYMBOLS	USCS	PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
0	Hand Auger				OL	0.0	OL: Dark Brown CLAYEY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 45% clay, 5% fine grained sand, dry, loose	
1					CL	0.0	CL: Brown LEAN CLAY, high plasticity, cohesive, 85% clay, 5% fine grained gravel, 5% fine grained sand, 5% silt, dry, stiff, mottled	SO2206061650WPS @ 1650 0.5-1.0'
2						0.0		SO2206061700WPS @ 1700 2.0-2.5'
3						0.0		
4						0.0		
5	Direct Push					0.0		
6						0.0		
7						0.0		
8						0.0		
9						0.0		
10								

NOTES: EOB @ 10.0 ft bgs

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB004**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/07/22**
		DATE END:	**06/07/22**



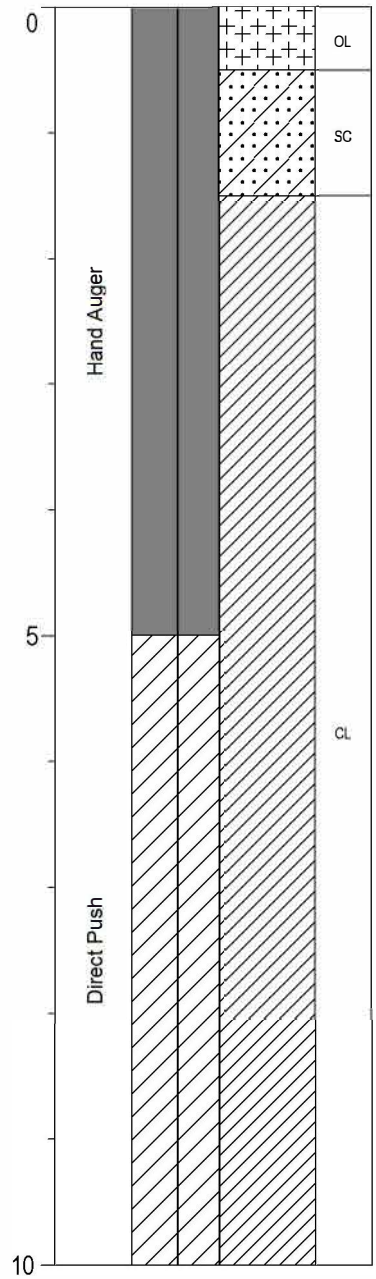
PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 30% fine grained sand, 20% medium grained sand, dry, loose, roots	
1.7	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 35% medium grained sand, 5% silt, dry, loose	SO2206071730WPS @ 1730 0.5-1.0'
0.8		SO2206071735WPS @ 1735 2.0-2.5'
0.0		
1.2		
0.0		
8.1		
0.0		
0.0	CH: Gray FAT CLAY, high plasticity, cohesive, 90% clay, 10% silt, wet, very stiff	
0.0		

NOTES: EOB @ 10.0 ft bgs

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB005**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



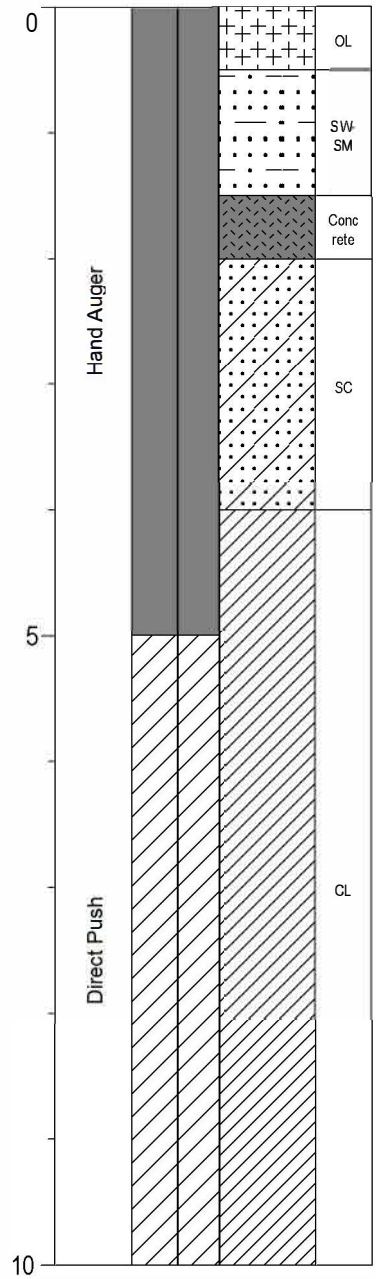
PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 30% fine grained sand, 20% medium grained sand, dry, loose, roots	
7.6	SC: Brown CLAYEY SAND, non plastic, non cohesive, 50% fine grained sand, 20% medium grained sand, 20% clay, 10% fine grained gravel, slightly compact, dry, concrete slab at 1.0 ft bgs	SO2206081300WPS @ 1300 0.5-1.0'
3.8	CL: Brown LEAN CLAY, high plasticity, cohesive, 85% clay, 10% silt, 5% fine grained sand, very stiff, dry	
2.0		SO2206081305WPS @ 1305 2.5-3.0'
2.0		
0.0		
0.0		
0.0		
0.0		
0.0		

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB006**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



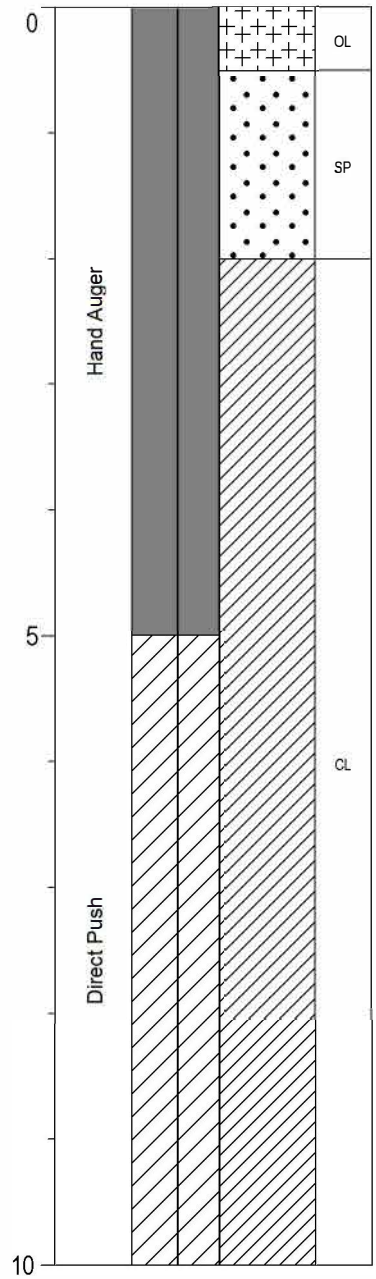
PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 25% fine grained sand, 15% medium grained sand, 5% clay and silt, dry, loose, roots	
1.1	SW-SM: Brown WELL GRADED SAND WITH SILT AND GRAVEL, non plastic, non cohesive, 40% fine grained sand, 25% medium grained sand, 15% coarse grained sand, 10% fine grained gravel, 10% silt, slightly compact, dry	SO2206081325WPS @ 1325 0.5-1.0'
	Concrete: Concrete Slab	
1.6	SC: Brown/Red CLAYEY SAND, non plastic, non cohesive, 40% fine grained sand, 30% medium grained sand, 20% clay, 5% gravel and silt, loose, dry	SO2206081345WPS @ 1345 2.5-3.0'
1.3	CL: Brown LEAN CLAY, high plasticity, cohesive, 90% clay, 10% silt, stiff, mottled, dry, frequent lenses grey silt	
0.0		
0.0		
0.0		
0.0		
0.0		

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB007**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL WITH GRAVEL, non plastic, non cohesive, 50% organic soil, 25% fine grained sand, 15% medium grained sand, 10% fine grained gravel, dry, loose, roots	
7.4	SP: Brown POORLY GRADED SAND WITH GRAVEL, non plastic, non cohesive, 50% fine grained sand, 35% medium grained sand, 10% fine grained gravel, 5% silt, loose, dry	SO2206081425WPS @ 1425 0.5-1.0'
2.4	CL: Brown LEAN CLAY, medium plasticity, cohesive, 90% clay, 5% fine grained sand and gravel, very stiff, dry, mottled grey silt	SO2206081440WPS @ 1440 2.0-2.5'
0.0		
0.0		
0.0		
0.0		
0.0		
0.0		
0.0		

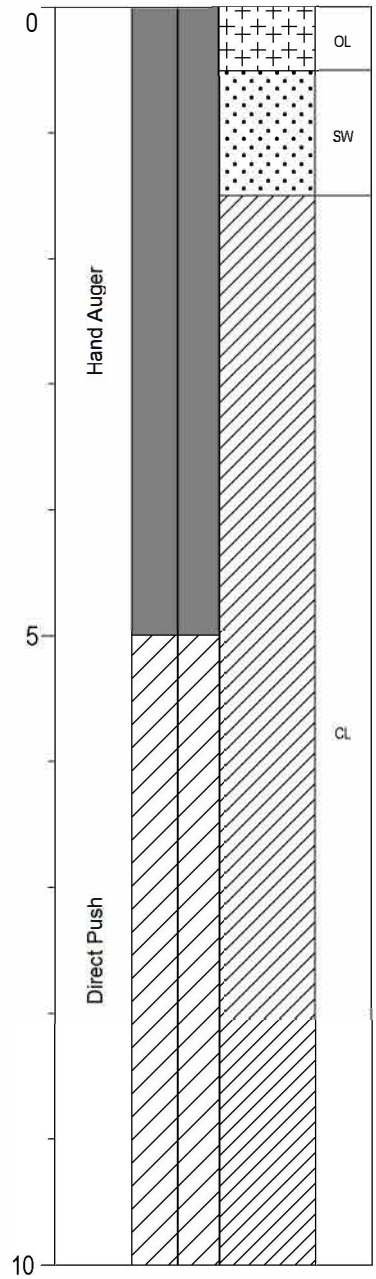
0 1 2 3 4 5 6 7 8 9 10

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB008**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 25% fine grained sand, 15% medium grained sand, 10% silt, dry, loose, roots	
1.2	SW: Brown WELL GRADED SAND WITH GRAVEL, non plastic, non cohesive, 40% fine grained sand, 25% medium grained sand, 10% coarse grained sand, 5% silt, dry, compact, building rubble	SO2206081550WPS @ 1550 0.5-1.0'
0.6	CL: Gray LEAN CLAY, high plasticity, cohesive, 85% clay, 10% silt, 5% fine grained gravel, dry, very stiff	SO2206081600WPS @ 1600 2.0-3.0'
0.0		
0.0		
0.0		
0.3		
0.0		
0.0		
0.0		

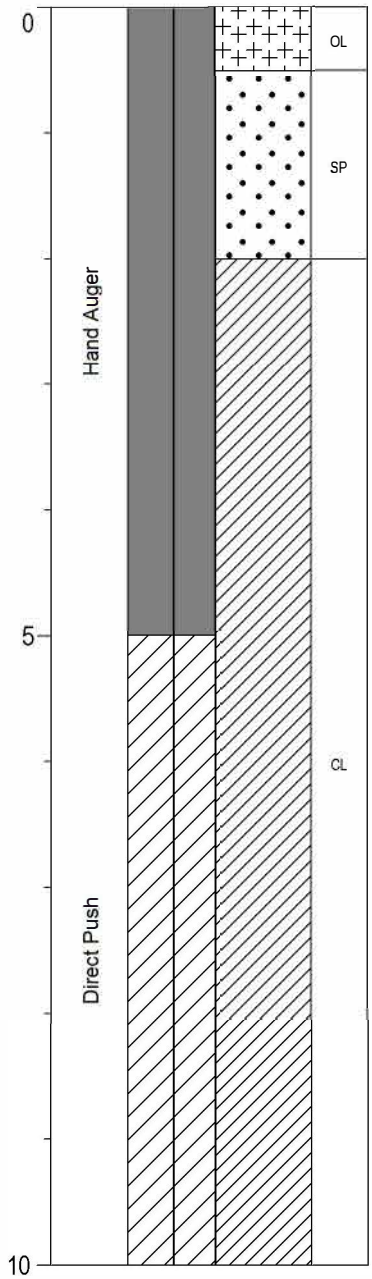
0 1 2 3 4 5 6 7 8 9 10

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB009**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL WITH CLAY, non plastic, non cohesive, 50% organic soil, 25% fine grained sand, 15% medium grained sand, 10% clay, loose, dry, roots	
3.4	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 30% medium grained sand, 5% fine grained gravel, 5% silt, loose, dry	SO2206081745WPS @ 1745 0.5-1.0'
1.5	CL: Brown LEAN CLAY, high plasticity, cohesive, 80% clay, 15% silt, stiff, dry, mottled with grey streaks	SO2206081755WPS @ 1755 2.5-3.0'
0.0		
1.3		
0.0		
0.0		
3.7		
0.0		
0.0		

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB010**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
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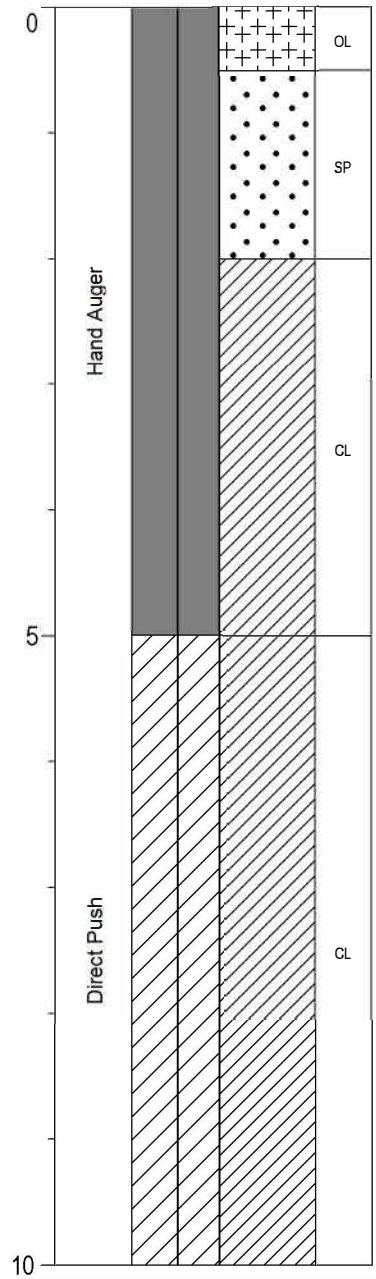


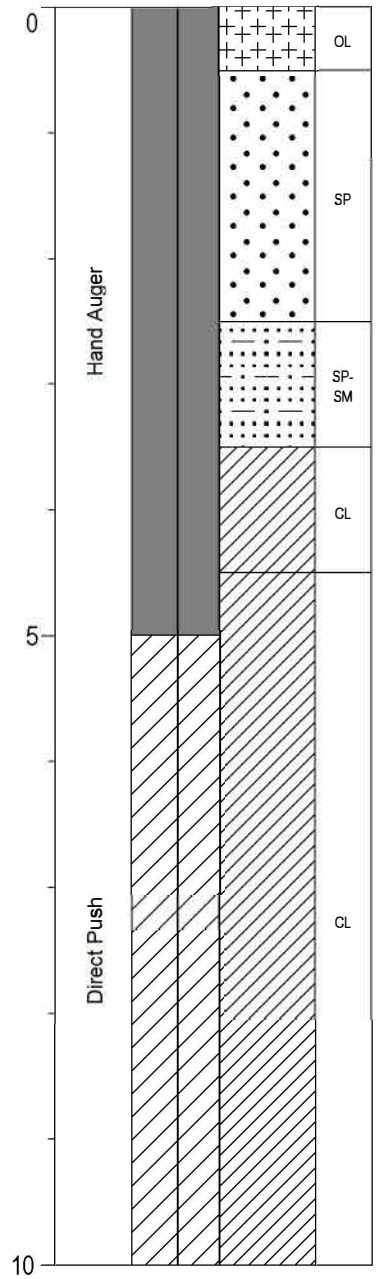
PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown ORGANIC SOIL	
2.6	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 35% medium grained sand, 5% silt, loose, dry, mottled with black and orange	SO2206081830WPS @ 1830 0.5-1.0'
0.0	CL: Brown LEAN CLAY, medium plasticity, cohesive, 75% clay, 20% fine grained sand, 5% silt, firm, moist	SO2206081845WPS @ 1845 2.5-3.0'
1.1		
0.0		
0.0	CL: Brown LEAN CLAY, high plasticity, cohesive, 90% clay, 5% fine grained sand, 5% silt, stiff, dry	
0.0		
0.0		
0.0		
0.0		

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

AECOM FIELD BOREHOLE LOG

BOREHOLE NO: **SB011**
TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Former McDonald County Store**	CONTRACTOR:	**Stock Drilling**
SITE LOCATION:	**Oscoda, MI**	CREW CHIEF:	**Tim Bacove**
PROJECT NO.:	**60681598**	DRILL RIG TYPE:	**Geoprobe**
PROJECT MANAGER:	**Mike Cox**	DRILLING METHOD:	**Direct Push**
LOGGED BY:	**Wes Stambaugh**	HOLE DIAMETER:	**4.25"**
CREATED BY:	**Wes Stambaugh**	DATE START:	**06/08/22**
		DATE END:	**06/08/22**



PID (ppm)	SOIL DESCRIPTION	SEDIMENT SAMPLE
	OL: Dark Brown SANDY ORGANIC SOIL, non plastic, non cohesive, 50% organic soil, 25% fine grained sand, 20% medium grained sand, 5% clay, loose, dry, roots	
2.6	SP: Brown POORLY GRADED SAND, non plastic, non cohesive, 60% fine grained sand, 30% medium grained sand, 5% fine grained sand, 5% silt, loose, dry	SO2206081900WPS @ 1900 0.5-1.0'
0.0		
2.1	SP-SM: Brown POORLY GRADED SAND WITH SILT, non plastic, non cohesive, 55% fine grained sand, 30% medium grained sand, 10% silt, 5% clay, loose, moist	SO2206081910WPS @ 1910 2.5-3.0'
1.7	CL: Grey SANDY LEAN CLAY, low plasticity, cohesive, 70% clay, 25% fine grained sand, 5% silt, firm moist, mottled black	
0.0	CL: Brown LEAN CLAY, high plasticity, cohesive, 90% clay, 10% silt, very stiff, dry, mottled grey	
0.0		
0.0		
1.5		
0.0		

NOTES: EOB @ 10.0 ft bgs; Water Not Encountered

Appendix B –

Proof of Waste Disposal

Northern A-1 ENVIRONMENTAL SERVICES

3947 US 131 North
P.O. Box 1030
Kalkaska, MI 49646

BILL OF LADING

05032-22

GENERATOR INFORMATION

MAILING		LOCATION	
Name:	AECOM - Mike Cox	Name:	EGLE - Former McDonalds Country Store
Address:	3950 Sparks Drive	Address:	7741 F741 (44.508055, -83.421674)
City, State, Zip:	Grand Rapids, MI 49546	City, State, Zip:	Oscoda , MI 48750
Phone:	989-225-0161	Phone:	989-225-0161

GENERATOR'S CERTIFICATION: I certify that the contents of this consignment are fully and accurately described on this Bill of Lading, are in proper condition for transport, and the information contained on this Bill of Lading is factual.

Generator Signature : Lynn Dobson Date: 8-2-2022

CUSTOMER INFORMATION

Company Responsible for Invoice Charges: AECOM obo EGLE
Contact Name / Phone Number: Mike Cox, 616-634-6234

WASTE INFORMATION

	Waste Description	Container No.	Container Type	Total Quantity	UOM	Approval Number
1	~~NonRCRA / NonDOT Regulated IDW Water (containing PFAS)~~	~~1~~	~~DM~~	~~55~~	~~G~~	~~22-00202~~
2	NonRCRA / NonDOT Regulated IDW Soil (containing PFAS)	3	DM	1,500	P	22-00203
3						
4						

Washout / Cleanout Needed: ☐ Gallons Generated During Washout: _____

Steam Needed: ☐

TRANSPORTER INFORMATION

Transporter Name: Northern A-1 Services
24-HR Emergency Phone: 1-800-544-2663
Truck Number: 817 Trailer Number: 193
Container Type: Drum Truck
Transporter Signature: [signature] Date: 8-29-22

DISPOSAL FACILITY

Site Name: Northern A-1 Services
Site EPA ID #: MID020906814
Address: 3947 N. US-131, P.O. Box 1030
City, State, Zip: Kalkaska, MI
Phone: (231) 258-9961

Disposal Facility Signature: Krista Haapala Date: 8/29/22

Appendix C –

Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-168146-1
Client Project/Site: Former McDonalds Country Store, Ocscoda,

For:
AECOM
3950 Sparks Drive SE
Grand Rapids, Michigan 49546

Attn: Mike Cox

Authorized for release by:
7/6/2022 2:24:47 PM
Patrick O'Meara, Manager of Project Management
(330)966-5725
Patrick.O'Meara@et.eurofinsus.com

Designee for

Kris Brooks, Project Manager II
(330)966-9790
Kris.Brooks@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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: 240-168146-1

Laboratory: Eurofins Canton

Narrative

Job Narrative
240-168146-1

Comments
The EPA Method 537 (modified) Fluorinated Alkyl Substances, Branched Linear and Total PFAS, and ASTM Method D2216-80 Percent Solids analyses were performed at the Eurofins Sacramento laboratory.

Receipt
The samples were received on 6/11/2022 @ 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.6º C and 3.4º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
Sample 9, container ID: SO2206071445WPS.
Samples 10, container ID: SO2206071455WPS.

SO 220607 1645 WPS (240-168146-9) and SO 2206071655 WPS (240-168146-10).

LCMS
Method B/L/T PFAS: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-597661 and analytical batch 320-598425 recovered outside control limits for the following analyte: 11Cl-PF3OUdS. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method B/L/T PFAS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-597522 and 320-597522 and analytical batch 320-598420 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 B/L/T PFAS: The laboratory control sample (LCS) for preparation batch 320-597666 and analytical batch 320-598436 recovered outside control limits for the following analyte: 11Cl-PF3OUdS. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method B/L/T PFAS: The concentration of Br-Perfluorooctanesulfonic acid and L-Perfluorooctanesulfonic acid associated with the following sample exceeded the instrument calibration range: SO 220608 1645 WPS (240-168146-35). These analytes have been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method B/L/T PFAS: The concentration of L-Perfluorooctanesulfonic acid associated with the following sample exceeded the instrument calibration range: SO 220608 1910 WPS (240-168146-40). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method B/L/T PFAS: The concentration of several analytes associated with the following sample exceeded the instrument calibration range: SO 220608 1900 WPS (240-168146-39). These analytes have been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method B/L/T PFAS: 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:
SO 220608 1000 WPS (240-168146-21), SO 220608 1030 WPS (240-168146-23) and SO 220608 1425 WPS (240-168146-29)

Method B/L/T PFAS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-596260 and analytical batch 320-598427 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.

Job ID: 240-168146-1 (Continued)

Laboratory: Eurofins Canton (Continued)

Method B/L/T PFAS: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: SO 220608 0940 WPS (240-168146-19). This analyte has been qualified; however, the peak(s) did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

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

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

Organic Prep
Method 3535: The following sample in preparation batch 320-597661 was observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction: EB 220607 1900 WPS (240-168146-18).
Method Code: 3535_PFC
Matrix: Water

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-597661.
Method Code: 3535_PFC
Matrix: Water

Method 3535: The following samples were prepared outside of preparation holding time due to samples being received past holding time: FB 220606 1430 WPS (240-168146-15), EB 220606 1910 WPS (240-168146-16), FB 220607 1100 WPS (240-168146-17) and EB 220607 1900 WPS (240-168146-18).
preparation batch 320-597661
Method Code: 3535_PFC
Matrix: Water

Method 3535: The following samples were received preserved with Trizma. Preservation was added to batch QC samples. FB 220610 1025 WPS (240-168146-44), DW 220610 1030 WPS (240-168146-45), DW 220610 1030 WPS (240-168146-45[MS]), DW 220610 1030 WPS (240-168146-45[MSD]) and DW 220610 1030 WPS-FD (240-168146-46)
preparation batch 320-597666
Method Code: 3535_PFC
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-597666 were yellow in color prior to extraction: DW 220610 1030 WPS (240-168146-45), DW 220610 1030 WPS (240-168146-45[MS]), DW 220610 1030 WPS (240-168146-45[MSD]) and DW 220610 1030 WPS-FD (240-168146-46)
Method Code: 3535_PFC
Matrix: Aqueous

Method 3535: The following samples in preparation batch 320-597666 were observed to have floating particulates present in the sample bottle prior to extraction: DW 220610 1030 WPS (240-168146-45), DW 220610 1030 WPS (240-168146-45[MS]), DW 220610 1030 WPS (240-168146-45[MSD]) and DW 220610 1030 WPS-FD (240-168146-46)
Method Code: 3535_PFC
Matrix: Aqueous

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

Method Summary

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Method	Method Description	Protocol	Laboratory
B/L/T PFAS	Branched, Linear and Total PFAS	EPA	TAL SAC
Moisture	Percent Moisture	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	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: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-168146-1	SO 220606 1650 WPS	Solid	06/06/22 16:50	06/11/22 10:00
240-168146-2	SO 220606 1700 WPS	Solid	06/06/22 17:00	06/11/22 10:00
240-168146-3	SO 220606 1745 WPS	Solid	06/06/22 17:45	06/11/22 10:00
240-168146-4	SO 220606 1755 WPS	Solid	06/06/22 17:55	06/11/22 10:00
240-168146-5	SO 220606 1840 WPS	Solid	06/06/22 18:40	06/11/22 10:00
240-168146-6	SO 220606 1850 WPS	Solid	06/06/22 18:50	06/11/22 10:00
240-168146-7	SO 220606 1850 WPS-FD	Solid	06/06/22 18:50	06/11/22 10:00
240-168146-8	SO 220607 0955 WPS	Solid	06/07/22 09:55	06/11/22 10:00
240-168146-9	SO 220607 1645 WPS	Solid	06/07/22 16:45	06/11/22 10:00
240-168146-10	SO 2206071655 WPS	Solid	06/07/22 16:55	06/11/22 10:00
240-168146-11	SO 220607 1730 WPS	Solid	06/07/22 17:30	06/11/22 10:00
240-168146-12	SO 220607 1735 WPS	Solid	06/07/22 17:35	06/11/22 10:00
240-168146-13	SO 220607 1810 WPS	Solid	06/07/22 18:10	06/11/22 10:00
240-168146-14	SO 220607 1810 WPS-FD	Solid	06/07/22 18:10	06/11/22 10:00
240-168146-15	FB 220606 1430 WPS	Water	06/06/22 14:30	06/11/22 10:00
240-168146-16	EB 220606 1910 WPS	Water	06/06/22 19:10	06/11/22 10:00
240-168146-17	FB 220607 1100 WPS	Water	06/07/22 11:00	06/11/22 10:00
240-168146-18	EB 220607 1900 WPS	Water	06/07/22 19:00	06/11/22 10:00
240-168146-19	SO 220608 0940 WPS	Solid	06/08/22 09:40	06/11/22 10:00
240-168146-20	SO 220608 0945 WPS	Solid	06/08/22 09:45	06/11/22 10:00
240-168146-21	SO 220608 1000 WPS	Solid	06/08/22 10:00	06/11/22 10:00
240-168146-22	SO 220608 1005 WPS	Solid	06/08/22 10:05	06/11/22 10:00
240-168146-23	SO 220608 1030 WPS	Solid	06/08/22 10:30	06/11/22 10:00
240-168146-24	SO 220608 1040 WPS	Solid	06/08/22 10:40	06/11/22 10:00
240-168146-25	SO 220608 1300 WPS	Solid	06/08/22 13:00	06/11/22 10:00
240-168146-26	SO 220608 1305 WPS	Solid	06/08/22 13:05	06/11/22 10:00
240-168146-27	SO 220608 1325 WPS	Solid	06/08/22 13:25	06/11/22 10:00
240-168146-28	SO 220608 1345 WPS	Solid	06/08/22 13:45	06/11/22 10:00
240-168146-29	SO 220608 1425 WPS	Solid	06/08/22 14:25	06/11/22 10:00
240-168146-30	SO 220608 1440 WPS	Solid	06/08/22 14:40	06/11/22 10:00
240-168146-31	SO 220608 1550 WPS	Solid	06/08/22 15:50	06/11/22 10:00
240-168146-32	SO 220608 1600 WPS	Solid	06/08/22 16:00	06/11/22 10:00
240-168146-33	SO 220608 1745 WPS	Solid	06/08/22 17:45	06/11/22 10:00
240-168146-34	SO 220608 1755 WPS	Solid	06/08/22 17:55	06/11/22 10:00
240-168146-35	SO 220608 1645 WPS	Solid	06/08/22 16:45	06/11/22 10:00
240-168146-36	SO 220608 1655 WPS	Solid	06/08/22 16:55	06/11/22 10:00
240-168146-37	SO 220608 1830 WPS	Solid	06/08/22 18:30	06/11/22 10:00
240-168146-38	SO 220608 1845 WPS	Solid	06/08/22 18:45	06/11/22 10:00
240-168146-39	SO 220608 1900 WPS	Solid	06/08/22 19:00	06/11/22 10:00
240-168146-40	SO 220608 1910 WPS	Solid	06/08/22 19:10	06/11/22 10:00
240-168146-41	SO 220608 1655 WPS-FD	Solid	06/08/22 16:55	06/11/22 10:00
240-168146-42	FB 220608 0840 WPS	Water	06/08/22 08:40	06/11/22 10:00
240-168146-43	EB 220608 1930 WPS	Water	06/08/22 19:30	06/11/22 10:00
240-168146-44	FB 220610 1025 WPS	Water	06/10/22 10:25	06/11/22 10:00
240-168146-45	DW 220610 1030 WPS	Water	06/10/22 10:30	06/11/22 10:00
240-168146-46	DW 220610 1030 WPS-FD	Water	06/10/22 10:30	06/11/22 10:00
240-168146-47	TB- 220610 1035 WPS	Water	06/10/22 10:35	06/11/22 10:00

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1650 WPS — Lab Sample ID: 240-168146-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.073	J	0.25	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.36		0.25	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.16	J	0.25	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.97		0.25	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	4.3		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	1.3		0.25	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.46		0.25	0.027	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	5.9		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	2.1		0.25	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.13	J	0.25	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.78		0.25	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	0.038	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.042	J	0.25	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	2.1		0.25	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.30		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	2.0		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	4.6		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	7.9		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220606 1700 WPS — Lab Sample ID: 240-168146-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.12	J	0.24	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.13	J	0.24	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.54		0.24	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	5.1		0.24	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.77		0.24	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.065	J	0.24	0.026	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.4		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.85		0.24	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.23	J	0.24	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.37		0.24	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.85		0.24	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.59		0.24	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.55		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	5.7		0.24	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.9		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220606 1745 WPS — Lab Sample ID: 240-168146-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.062	J	0.22	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.046	J	0.22	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.035	J	0.22	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.039	J	0.22	0.024	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.9		0.22	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.32		0.22	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.046	J	0.22	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	2.2		0.22	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1755 WPS — Lab Sample ID: 240-168146-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorooctanesulfonic acid	1.8		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.54		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	2.4		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220606 1840 WPS — Lab Sample ID: 240-168146-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.065	J	0.21	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.055	J	0.21	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.059	J	0.21	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.038	J	0.21	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.34		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.068	J	0.21	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.068	J	0.21	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.18	J	0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.059	J	0.21	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.52		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220606 1850 WPS — Lab Sample ID: 240-168146-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.052	J	0.23	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.2		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.067	J	0.23	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.41		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.6		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220606 1850 WPS-FD — Lab Sample ID: 240-168146-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorooctanesulfonic acid	1.3		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.062	J	0.24	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.45		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.8		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220607 0955 WPS — Lab Sample ID: 240-168146-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.11	J	0.26	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.15	J	0.26	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.51		0.26	0.037	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.17	J	0.26	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.5		0.26	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.23	J	0.26	0.068	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.099	J	0.26	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.23	J	0.26	0.068	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.84		0.26	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.51		0.26	0.037	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	2.3		0.26	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1645 WPS — Lab Sample ID: 240-168146-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.14	J	0.27	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.20	J	0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.069	J	0.27	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.27		0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.33		0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.20	J	0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.60		0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 2206071655 WPS — Lab Sample ID: 240-168146-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.15	J	0.27	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.099	J	0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.067	J	0.27	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.32		0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.092	J	0.27	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.092	J	0.27	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.21	J	0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.099	J	0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.53		0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220607 1730 WPS — Lab Sample ID: 240-168146-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.061	J	0.19	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.059	J	0.19	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.086	J	0.19	0.028	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.097	J	0.19	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.24		0.19	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.40		0.19	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.086	J	0.19	0.028	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.64		0.19	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220607 1735 WPS — Lab Sample ID: 240-168146-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorooctanesulfonic acid	0.26		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.058	J	0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.32		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220607 1810 WPS — Lab Sample ID: 240-168146-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.051	J	0.20	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.034	J	0.20	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.11	J	0.20	0.022	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	7.6		0.20	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.14	J	0.20	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.051	J	0.20	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.14	J	0.20	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	1.1		0.20	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	8.7		0.20	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1810 WPS-FD — Lab Sample ID: 240-168146-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.075	J	0.21	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.033	J	0.21	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.10	J	0.21	0.023	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	7.2	F1	0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.12	J	0.21	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.055	J	0.21	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.12	J	0.21	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.96		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	8.1		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: FB 220606 1430 WPS — Lab Sample ID: 240-168146-15

No Detections.

Client Sample ID: EB 220606 1910 WPS — Lab Sample ID: 240-168146-16

No Detections.

Client Sample ID: FB 220607 1100 WPS — Lab Sample ID: 240-168146-17

No Detections.

Client Sample ID: EB 220607 1900 WPS — Lab Sample ID: 240-168146-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.44	J H	1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 0940 WPS — Lab Sample ID: 240-168146-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.054	J	0.23	0.031	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	1.1		0.23	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.094	J	0.23	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanesulfonic acid	0.093	J	0.23	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.077	J	0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.41		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.097	J	0.23	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.12	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.38		0.23	0.025	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	0.14	J	0.23	0.037	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	27	E	0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.12	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.12	J	0.23	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.19	J	0.23	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.12	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.050	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	11		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.46		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	38		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 0945 WPS — Lab Sample ID: 240-168146-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.074	J	0.23	0.031	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	0.32		0.23	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SO 220608 0945 WPS (Continued) — Lab Sample ID: 240-168146-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.063	J	0.23	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.050	J	0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.39		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.068	J	0.23	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.16	J	0.23	0.025	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	12		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.077	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.082	J	0.23	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.053	J	0.23	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.077	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.044	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	6.5		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.43		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	18		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1000 WPS — Lab Sample ID: 240-168146-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.14	J	0.23	0.031	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	1.6		0.23	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.063	J	0.23	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanesulfonic acid	0.38		0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.068	J	0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.17	J I	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.058	J	0.23	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.48		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.048	J	0.23	0.025	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	0.096	J	0.23	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	3.2		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.087	J	0.23	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.050	J	0.23	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroundecanoic acid	0.072	J	0.23	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.19	J	0.23	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.087	J	0.23	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.46		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.17	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	3.7		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1005 WPS — Lab Sample ID: 240-168146-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.061	J	0.25	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	0.62		0.25	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanesulfonic acid	0.071	J	0.25	0.064	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.068	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.38		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.044	J	0.25	0.027	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	0.31		0.25	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	2.3		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroundecanoic acid	0.12	J	0.25	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.16	J	0.25	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.31		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1005 WPS (Continued) — Lab Sample ID: 240-168146-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFHxS	0.068	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	2.6		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1030 WPS — Lab Sample ID: 240-168146-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorohexanesulfonic acid	0.056	J I	0.24	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.11	J	0.24	0.026	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	3.7		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.12	J	0.24	0.063	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.12	J	0.24	0.063	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.15	J	0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.056	J	0.24	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	3.8		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1040 WPS — Lab Sample ID: 240-168146-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorooctanesulfonic acid	1.5		0.21	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.11	J	0.21	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.6		0.21	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1300 WPS — Lab Sample ID: 240-168146-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.13	J	0.21	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.083	J	0.21	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.43		0.21	0.031	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.15	J	0.21	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.15	J	0.21	0.024	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	7.3		0.21	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.21		0.21	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.15	J	0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.21		0.21	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.039	J	0.21	0.031	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.81		0.21	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.47		0.21	0.031	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	8.1		0.21	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1305 WPS — Lab Sample ID: 240-168146-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.053	J	0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.080	J	0.23	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.055	J	0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.88		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.14	J	0.23	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.32		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.072	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.062	J	0.23	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.077	J	0.23	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.072	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.11	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO 220608 1305 WPS (Continued) — Lab Sample ID: 240-168146-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.43		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.99		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.74		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1325 WPS — Lab Sample ID: 240-168146-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.094	J	0.21	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.067	J	0.21	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.15	J	0.21	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.10	J	0.21	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.032	J	0.21	0.023	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.7		0.21	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.13	J	0.21	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.14	J	0.21	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.13	J	0.21	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.21		0.21	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.15	J	0.21	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.9		0.21	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1345 WPS — Lab Sample ID: 240-168146-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorohexanesulfonic acid	0.086	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.3		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.27		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.086	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.5		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1425 WPS — Lab Sample ID: 240-168146-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorohexanesulfonic acid	0.13	J I	0.21	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	2.7		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.32		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.13	J	0.21	0.030	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	3.0		0.21	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1440 WPS — Lab Sample ID: 240-168146-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.080	J	0.24	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.095	J	0.24	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.083	J	0.24	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	1.8		0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.21	J	0.24	0.037	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	3.2		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.15	J	0.24	0.063	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.15	J	0.24	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.081	J	0.24	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	0.12	J	0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.11	J	0.24	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.15	J	0.24	0.063	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO 220608 1440 WPS (Continued) — Lab Sample ID: 240-168146-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorohexanesulfonic acid	0.30		0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	2.0		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	2.1		0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	5.2		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1550 WPS — Lab Sample ID: 240-168146-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorohexanesulfonic acid	0.94		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.067	J	0.23	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.5		0.23	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.091	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.070	J	0.23	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.062	J	0.23	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.091	J	0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.15	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.68		0.23	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	1.1		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	2.2		0.23	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1600 WPS — Lab Sample ID: 240-168146-32

No Detections.

Client Sample ID: SO 220608 1745 WPS — Lab Sample ID: 240-168146-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.053	J	0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.13	J	0.23	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.075	J	0.23	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.29		0.23	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	2.2		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.48		0.23	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.064	J	0.23	0.025	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	3.2		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.56		0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.090	J	0.23	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.36		0.23	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.045	J	0.23	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.56		0.23	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.21	J	0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	2.2		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	2.4		0.23	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	5.4		0.23	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1755 WPS — Lab Sample ID: 240-168146-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.058	J	0.27	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.059	J	0.27	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.92		0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.16	J	0.27	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.70		0.27	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO 220608 1755 WPS (Continued) — Lab Sample ID: 240-168146-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorooctanoic acid	0.096	J	0.27	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.068	J	0.27	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.091	J	0.27	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.096	J	0.27	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.13	J	0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.46		0.27	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	1.0		0.27	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.2		0.27	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1645 WPS — Lab Sample ID: 240-168146-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.092	J	0.24	0.033	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	0.28		0.24	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.17	J	0.24	0.056	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanesulfonic acid	0.093	J	0.24	0.064	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanoic acid	0.11	J	0.24	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.18	J	0.24	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.18	J	0.24	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	1.9		0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.20	J	0.24	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.35		0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.38		0.24	0.027	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	0.62		0.24	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	160	E	0.24	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.24		0.24	0.065	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.079	J	0.24	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.34		0.24	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	0.089	J	0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	4.1		0.24	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.24		0.24	0.065	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.16	J	0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	13		0.24	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	2.1		0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	170		0.24	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1655 WPS — Lab Sample ID: 240-168146-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.12	J	0.25	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	0.18	J	0.25	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.13	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.038	J	0.25	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	5.2		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.077	J	0.25	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.076	J	0.25	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	2.0		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.13	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	7.1		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1830 WPS — Lab Sample ID: 240-168146-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.096	J	0.23	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.096	J	0.23	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.087	J	0.23	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	1.3		0.23	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.10	J	0.23	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.076	J	0.23	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.19	J	0.23	0.025	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	13		0.23	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.31		0.23	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.12	J	0.23	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.061	J	0.23	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.31		0.23	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.094	J	0.23	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	3.7		0.23	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	1.4		0.23	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	17		0.23	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1845 WPS — Lab Sample ID: 240-168146-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.16	J	0.26	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.15	J	0.26	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	2.2		0.26	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.48		0.26	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.90		0.26	0.056	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.26		0.26	0.069	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.11	J	0.26	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.44		0.26	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.26		0.26	0.069	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.23	J	0.26	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.68		0.26	0.056	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	2.4		0.26	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.6		0.26	0.056	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1900 WPS — Lab Sample ID: 240-168146-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	4.4		0.25	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	15		0.25	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
L-N-ethylperfluorooctanesulfonamido acetic acid	0.59		0.25	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
L-N-methylperfluorooctanesulfonamidoacetic acid	0.32		0.25	0.029	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.81		0.25	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.58		0.25	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanesulfonic acid	3.1		0.25	0.065	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanoic acid	1.9		0.25	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorododecanoic acid	0.15	J	0.25	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	3.5		0.25	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	1.2		0.25	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	25	E	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	1.8		0.25	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1900 WPS (Continued) — Lab Sample ID: 240-168146-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanesulfonic acid	60	E	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	1.6		0.25	0.028	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	14		0.25	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	390	E	0.25	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	2.9		0.25	0.067	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	2.2		0.25	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.98		0.25	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorotridecanoic acid	0.035	J	0.25	0.026	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroundecanoic acid	1.6		0.25	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	1.5		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	52	E	0.25	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
Total NEtFOSAA	0.83		0.25	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	3.3		0.25	0.067	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-N-ethylperfluorooctanesulfonamido acetic acid	0.24	J	0.25	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	0.39		0.25	0.067	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-N-methylperfluorooctanesulfonamidoacetic acid	0.072	J	0.25	0.029	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	5.0		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	140	E	0.25	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	30		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	530		0.25	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Total NMeFOSAA	0.39		0.25	0.029	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SO 220608 1910 WPS — Lab Sample ID: 240-168146-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.57		0.25	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	2.6		0.25	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.11	J	0.25	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanesulfonic acid	0.63		0.25	0.065	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorodecanoic acid	0.065	J	0.25	0.060	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.11	J	0.25	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.11	J	0.25	0.047	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	1.7		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.23	J	0.25	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.86		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.24	J	0.25	0.027	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	0.77		0.25	0.041	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	50	E	0.25	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.18	J	0.25	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.083	J	0.25	0.046	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.14	J	0.25	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoroundecanoic acid	0.062	J	0.25	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	0.12	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	1.8		0.25	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOA	0.18	J	0.25	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.21	J	0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	10		0.25	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	1.9		0.25	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	60		0.25	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1655 WPS-FD — Lab Sample ID: 240-168146-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 Fluorotelomer sulfonic acid	0.25		0.24	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	0.20	J	0.24	0.042	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.13	J	0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.043	J	0.24	0.037	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.029	J	0.24	0.026	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	5.7	F1	0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.083	J	0.24	0.049	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.086	J	0.24	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	1.9		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.13	J	0.24	0.035	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	7.7	F1	0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: FB 220608 0840 WPS — Lab Sample ID: 240-168146-42

No Detections.

Client Sample ID: EB 220608 1930 WPS — Lab Sample ID: 240-168146-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonamide	1.1	J	1.9	0.92	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: FB 220610 1025 WPS — Lab Sample ID: 240-168146-44

No Detections.

Client Sample ID: DW 220610 1030 WPS — Lab Sample ID: 240-168146-45

No Detections.

Client Sample ID: DW 220610 1030 WPS-FD — Lab Sample ID: 240-168146-46

No Detections.

Client Sample ID: TB- 220610 1035 WPS — Lab Sample ID: 240-168146-47

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1650 WPS

Date Collected: 06/06/22 16:50
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-1

Matrix: Solid
Percent Solids: 77.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.25	0.038	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
4:2 Fluorotelomer sulfonic acid	ND		0.25	0.063	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
6:2 Fluorotelomer sulfonic acid	ND		0.25	0.034	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
8:2 Fluorotelomer sulfonic acid	ND		0.25	0.043	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
9Cl-PF3ONS	ND		0.25	0.043	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
DONA	ND		0.25	0.048	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
HFPODA	ND		0.25	0.051	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.060	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.029	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorobutanesulfonic acid	**0.073**	**J**	0.25	0.047	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorobutanoic acid	**0.36**		0.25	0.057	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorodecanesulfonic acid	ND		0.25	0.065	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorodecanoic acid	ND		0.25	0.060	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorododecanoic acid	ND		0.25	0.037	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluoroheptanesulfonic acid	**0.16**	**J**	0.25	0.061	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluoroheptanoic acid	**0.97**		0.25	0.047	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
L-Perfluorohexanesulfonic acid	**4.3**		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorohexanoic acid	**1.3**		0.25	0.038	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorononanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorononanoic acid	**0.46**		0.25	0.027	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorooctanesulfonamide	ND		0.25	0.041	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
L-Perfluorooctanesulfonic acid	**5.9**		0.25	0.053	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
L-Perfluorooctanoic acid	**2.1**		0.25	0.066	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluoropentanesulfonic acid	**0.13**	**J**	0.25	0.046	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluoropentanoic acid	**0.78**		0.25	0.051	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorotetradecanoic acid	ND		0.25	0.046	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluorotridecanoic acid	ND		0.25	0.026	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluoroundecanoic acid	ND		0.25	0.052	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.25	0.055	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
FBSA	**0.038**	**J**	0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
FHxSA	**0.042**	**J**	0.25	0.042	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Total NEtFOSAA	ND		0.25	0.060	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Total PFOA	**2.1**		0.25	0.066	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.060	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Br-Perfluorooctanoic acid	ND		0.25	0.066	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.029	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Br-Perfluorohexanesulfonic acid	**0.30**		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Br-Perfluorooctanesulfonic acid	**2.0**		0.25	0.053	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Total PFHxS	**4.6**		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Total PFOS	**7.9**		0.25	0.053	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1
Total NMeFOSAA	ND		0.25	0.029	ng/g	☼	06/17/22 12:10	06/26/22 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
M2-6:2 FTS	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
M2-8:2 FTS	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1650 WPS
Lab Sample ID: 240-168146-1

Date Collected: 06/06/22 16:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 77.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*115*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C3 PFBS	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C4 PFBA	*87*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C4 PFHpA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C5 PFPeA	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
d3-NMeFOSAA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C8 FOSA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C2 PFHxA	*88*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C4 PFOA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C5 PFNA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C2 PFDA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C2 PFUnA	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C2 PFDoA	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
18O2 PFHxS	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*
13C4 PFOS	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.0**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**77.0**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1700 WPS

Date Collected: 06/06/22 17:00
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-2

Matrix: Solid
Percent Solids: 80.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.036	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.060	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.041	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
9Cl-PF3ONS	ND		0.24	0.041	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
DONA	ND		0.24	0.046	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
HFPODA	ND		0.24	0.048	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorobutanesulfonic acid	**0.12**	**J**	0.24	0.045	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorobutanoic acid	**0.13**	**J**	0.24	0.054	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorodecanesulfonic acid	ND		0.24	0.061	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorododecanoic acid	ND		0.24	0.035	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluoroheptanesulfonic acid	ND		0.24	0.058	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluoroheptanoic acid	**0.54**		0.24	0.045	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
L-Perfluorohexanesulfonic acid	**5.1**		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorohexanoic acid	**0.77**		0.24	0.036	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorononanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorononanoic acid	**0.065**	**J**	0.24	0.026	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
L-Perfluorooctanesulfonic acid	**1.4**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
L-Perfluorooctanoic acid	**0.85**		0.24	0.062	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluoropentanesulfonic acid	**0.23**	**J**	0.24	0.044	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluoropentanoic acid	**0.37**		0.24	0.048	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluoroundecanoic acid	ND		0.24	0.049	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.052	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
FBSA	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
FHxSA	ND		0.24	0.040	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Total PFOA	**0.85**		0.24	0.062	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Br-Perfluorooctanoic acid	ND		0.24	0.062	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Br-Perfluorohexanesulfonic acid	**0.59**		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Br-Perfluorooctanesulfonic acid	**0.55**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Total PFHxS	**5.7**		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Total PFOS	**1.9**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1
Total NMeFOSAA	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 05:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
M2-6:2 FTS	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
M2-8:2 FTS	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1700 WPS
Lab Sample ID: 240-168146-2

Date Collected: 06/06/22 17:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 80.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*111*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C3 PFBS	*89*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C4 PFBA	*57*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C4 PFHpA	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C5 PFPeA	*87*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
d3-NMeFOSAA	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
d5-NEtFOSAA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C8 FOSA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C2 PFHxA	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C4 PFOA	*90*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C5 PFNA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C2 PFDA	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C2 PFUnA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C2 PFDoA	*109*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
18O2 PFHxS	*88*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*
13C4 PFOS	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.3**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**80.7**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1745 WPS

Date Collected: 06/06/22 17:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-3

Matrix: Solid
Percent Solids: 88.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.22	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
4:2 Fluorotelomer sulfonic acid	ND		0.22	0.055	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
6:2 Fluorotelomer sulfonic acid	ND		0.22	0.029	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
8:2 Fluorotelomer sulfonic acid	ND		0.22	0.038	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
9Cl-PF3ONS	ND		0.22	0.038	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
DONA	ND		0.22	0.042	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
HFPODA	ND		0.22	0.045	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.22	0.052	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.22	0.025	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorobutanesulfonic acid	ND		0.22	0.041	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorobutanoic acid	**0.062**	**J**	0.22	0.050	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorodecanesulfonic acid	ND		0.22	0.057	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorodecanoic acid	ND		0.22	0.052	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorododecanoic acid	ND		0.22	0.033	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluoroheptanesulfonic acid	ND		0.22	0.053	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluoroheptanoic acid	ND		0.22	0.041	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
L-Perfluorohexanesulfonic acid	**0.046**	**J**	0.22	0.032	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorohexanoic acid	**0.035**	**J**	0.22	0.034	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorononanesulfonic acid	ND		0.22	0.032	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorononanoic acid	**0.039**	**J**	0.22	0.024	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorooctanesulfonamide	ND		0.22	0.036	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
L-Perfluorooctanesulfonic acid	**1.9**		0.22	0.047	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
L-Perfluorooctanoic acid	ND		0.22	0.058	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluoropentanesulfonic acid	ND		0.22	0.040	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluoropentanoic acid	ND		0.22	0.045	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorotetradecanoic acid	ND		0.22	0.040	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluorotridecanoic acid	ND		0.22	0.023	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluoroundecanoic acid	ND		0.22	0.046	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.22	0.048	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
FBSA	ND		0.22	0.032	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
FHxSA	ND		0.22	0.037	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Total NEtFOSAA	ND		0.22	0.052	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Total PFOA	ND		0.22	0.058	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.22	0.052	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Br-Perfluorooctanoic acid	ND		0.22	0.058	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.22	0.025	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Br-Perfluorohexanesulfonic acid	ND		0.22	0.032	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Br-Perfluorooctanesulfonic acid	**0.32**		0.22	0.047	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Total PFHxS	**0.046**	**J**	0.22	0.032	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Total PFOS	**2.2**		0.22	0.047	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1
Total NMeFOSAA	ND		0.22	0.025	ng/g	☼	06/17/22 12:10	06/26/22 05:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*111*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
M2-6:2 FTS	*110*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1745 WPS
Lab Sample ID: 240-168146-3

Date Collected: 06/06/22 17:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 88.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C3 HFPO-DA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C3 PFBS	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C4 PFBA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C5 PFPeA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C8 FOSA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C2 PFHxA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C4 PFOA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C5 PFNA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C2 PFDA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C2 PFUnA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C2 PFDoA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
18O2 PFHxS	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*
13C4 PFOS	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 05:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**88.9**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1755 WPS

Date Collected: 06/06/22 17:55
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-4

Matrix: Solid
Percent Solids: 78.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.061	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.042	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
DONA	ND		0.24	0.046	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
HFPODA	ND		0.24	0.049	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorobutanesulfonic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorobutanoic acid	ND		0.24	0.055	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorodecanesulfonic acid	ND		0.24	0.062	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluoroheptanesulfonic acid	ND		0.24	0.058	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluoroheptanoic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
L-Perfluorohexanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorohexanoic acid	ND		0.24	0.037	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorononanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorononanoic acid	ND		0.24	0.026	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
L-Perfluorooctanesulfonic acid	**1.8**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
L-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluoropentanesulfonic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluoropentanoic acid	ND		0.24	0.049	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.052	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
FBSA	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
FHxSA	ND		0.24	0.040	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Total PFOA	ND		0.24	0.063	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Br-Perfluorooctanesulfonic acid	**0.54**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Total PFHxS	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Total PFOS	**2.4**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1
Total NMeFOSAA	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 06:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*118*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
M2-6:2 FTS	*118*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1755 WPS
Lab Sample ID: 240-168146-4

Date Collected: 06/06/22 17:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*108*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C3 HFPO-DA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C3 PFBS	*106*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C4 PFBA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C5 PFPeA	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
d3-NMeFOSAA	*110*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
d5-NEtFOSAA	*122*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C8 FOSA	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C2 PFHxA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C5 PFNA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C2 PFDA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C2 PFUnA	*108*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C2 PFDoA	*107*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
18O2 PFHxS	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*
13C4 PFOS	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.3**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**78.7**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1840 WPS

Date Collected: 06/06/22 18:40
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-5

Matrix: Solid
Percent Solids: 92.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.21	0.032	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
4:2 Fluorotelomer sulfonic acid	ND		0.21	0.053	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.028	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.036	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
9Cl-PF3ONS	ND		0.21	0.036	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
DONA	ND		0.21	0.040	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
HFPODA	ND		0.21	0.042	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorobutanesulfonic acid	ND		0.21	0.039	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorobutanoic acid	**0.065**	**J**	0.21	0.048	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorodecanesulfonic acid	ND		0.21	0.054	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorodecanoic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorododecanoic acid	ND		0.21	0.031	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluoroheptanesulfonic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluoroheptanoic acid	**0.055**	**J**	0.21	0.039	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
L-Perfluorohexanesulfonic acid	**0.059**	**J**	0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorohexanoic acid	**0.038**	**J**	0.21	0.032	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorononanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorononanoic acid	ND		0.21	0.023	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorooctanesulfonamide	ND		0.21	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
L-Perfluorooctanesulfonic acid	**0.34**		0.21	0.044	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
L-Perfluorooctanoic acid	**0.068**	**J**	0.21	0.055	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluoropentanesulfonic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluoropentanoic acid	ND		0.21	0.042	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorotetradecanoic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluoroundecanoic acid	ND		0.21	0.043	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.21	0.046	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
FBSA	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
FHxSA	ND		0.21	0.035	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Total NEtFOSAA	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Total PFOA	**0.068**	**J**	0.21	0.055	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Br-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Br-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Br-Perfluorooctanesulfonic acid	**0.18**	**J**	0.21	0.044	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Total PFHxS	**0.059**	**J**	0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Total PFOS	**0.52**		0.21	0.044	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1
Total NMeFOSAA	ND		0.21	0.024	ng/g	☼	06/17/22 12:10	06/26/22 06:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
M2-6:2 FTS	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1840 WPS
Lab Sample ID: 240-168146-5

Date Collected: 06/06/22 18:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 92.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C3 HFPO-DA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C3 PFBS	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C4 PFBA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C4 PFHpA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C5 PFPeA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
d3-NMeFOSAA	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
d5-NEtFOSAA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C8 FOSA	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C2 PFHxA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C4 PFOA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C5 PFNA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C2 PFDA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C2 PFUnA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C2 PFDoA	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
18O2 PFHxS	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*
13C4 PFOS	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.1**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**92.9**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1850 WPS

Date Collected: 06/06/22 18:50
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-6

Matrix: Solid
Percent Solids: 78.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.030	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.039	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
9Cl-PF3ONS	ND		0.23	0.039	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
DONA	ND		0.23	0.044	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
HFPODA	ND		0.23	0.046	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorobutanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorobutanoic acid	**0.052**	**J**	0.23	0.052	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorodecanesulfonic acid	ND		0.23	0.059	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorodecanoic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluoroheptanesulfonic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluoroheptanoic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
L-Perfluorohexanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorohexanoic acid	ND		0.23	0.035	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorononanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorononanoic acid	ND		0.23	0.025	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorooctanesulfonamide	ND		0.23	0.037	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
L-Perfluorooctanesulfonic acid	**1.2**		0.23	0.049	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
L-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluoropentanesulfonic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluoropentanoic acid	**0.067**	**J**	0.23	0.046	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluoroundecanoic acid	ND		0.23	0.047	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
FHxSA	ND		0.23	0.038	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Total NEtFOSAA	ND		0.23	0.054	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Total PFOA	ND		0.23	0.060	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Br-Perfluorohexanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Br-Perfluorooctanesulfonic acid	**0.41**		0.23	0.049	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Total PFHxS	ND		0.23	0.033	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Total PFOS	**1.6**		0.23	0.049	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:10	06/26/22 06:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*118*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
M2-6:2 FTS	*117*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
M2-8:2 FTS	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1850 WPS
Lab Sample ID: 240-168146-6

Date Collected: 06/06/22 18:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*106*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C3 HFPO-DA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C3 PFBS	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C4 PFBA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C5 PFPeA	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
d3-NMeFOSAA	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
d5-NEtFOSAA	*109*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C8 FOSA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C2 PFHxA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C4 PFOA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C5 PFNA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C2 PFDA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C2 PFUnA	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C2 PFDoA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
18O2 PFHxS	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*
13C4 PFOS	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 06:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.7**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**78.3**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1850 WPS-FD

Date Collected: 06/06/22 18:50
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-7

Matrix: Solid
Percent Solids: 77.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.060	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.041	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
9Cl-PF3ONS	ND		0.24	0.041	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
DONA	ND		0.24	0.046	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
HFPODA	ND		0.24	0.048	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorobutanesulfonic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorobutanoic acid	ND		0.24	0.054	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorodecanesulfonic acid	ND		0.24	0.061	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorododecanoic acid	ND		0.24	0.035	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluoroheptanesulfonic acid	ND		0.24	0.058	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluoroheptanoic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
L-Perfluorohexanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorohexanoic acid	ND		0.24	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorononanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorononanoic acid	ND		0.24	0.026	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
L-Perfluorooctanesulfonic acid	**1.3**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
L-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluoropentanesulfonic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluoropentanoic acid	**0.062**	**J**	0.24	0.048	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.052	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
FBSA	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
FHxSA	ND		0.24	0.040	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Total PFOA	ND		0.24	0.063	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Br-Perfluorooctanesulfonic acid	**0.45**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Total PFHxS	ND		0.24	0.034	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Total PFOS	**1.8**		0.24	0.051	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1
Total NMeFOSAA	ND		0.24	0.027	ng/g	☼	06/17/22 12:10	06/26/22 07:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*125*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:08*	*1*
M2-6:2 FTS	*114*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:08*	*1*
M2-8:2 FTS	*111*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:08*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1850 WPS-FD
Lab Sample ID: 240-168146-7

Date Collected: 06/06/22 18:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 77.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	107		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C3 HFPO-DA	100		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C3 PFBS	104		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C4 PFBA	97		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C4 PFHpA	101		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C5 PFPeA	101		25 - 150	06/17/22 12:10	06/26/22 07:08	1
d3-NMeFOSAA	106		25 - 150	06/17/22 12:10	06/26/22 07:08	1
d5-NEtFOSAA	115		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C8 FOSA	99		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C2 PFHxA	97		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C4 PFOA	99		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C5 PFNA	99		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C2 PFDA	97		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C2 PFUnA	100		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C2 PFDoA	103		25 - 150	06/17/22 12:10	06/26/22 07:08	1
18O2 PFHxS	101		25 - 150	06/17/22 12:10	06/26/22 07:08	1
13C4 PFOS	98		25 - 150	06/17/22 12:10	06/26/22 07:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	77.0		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220607 0955 WPS

Date Collected: 06/07/22 09:55
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-8

Matrix: Solid
Percent Solids: 75.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.26	0.040	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
4:2 Fluorotelomer sulfonic acid	ND		0.26	0.065	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
6:2 Fluorotelomer sulfonic acid	ND		0.26	0.035	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
8:2 Fluorotelomer sulfonic acid	ND		0.26	0.045	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
9Cl-PF3ONS	ND		0.26	0.045	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
DONA	ND		0.26	0.050	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
HFPODA	ND		0.26	0.053	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.062	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.029	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorobutanesulfonic acid	ND		0.26	0.049	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorobutanoic acid	**0.11**	**J**	0.26	0.059	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorodecanesulfonic acid	ND		0.26	0.067	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorodecanoic acid	ND		0.26	0.062	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorododecanoic acid	ND		0.26	0.038	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluoroheptanesulfonic acid	ND		0.26	0.063	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluoroheptanoic acid	**0.15**	**J**	0.26	0.049	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
L-Perfluorohexanesulfonic acid	**0.51**		0.26	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorohexanoic acid	**0.17**	**J**	0.26	0.040	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorononanesulfonic acid	ND		0.26	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorononanoic acid	ND		0.26	0.028	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorooctanesulfonamide	ND		0.26	0.042	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
L-Perfluorooctanesulfonic acid	**1.5**		0.26	0.055	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
L-Perfluorooctanoic acid	**0.23**	**J**	0.26	0.068	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluoropentanesulfonic acid	ND		0.26	0.047	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluoropentanoic acid	**0.099**	**J**	0.26	0.053	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorotetradecanoic acid	ND		0.26	0.047	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluorotridecanoic acid	ND		0.26	0.027	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluoroundecanoic acid	ND		0.26	0.054	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.26	0.056	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
FBSA	ND		0.26	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
FHxSA	ND		0.26	0.044	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Total NEtFOSAA	ND		0.26	0.062	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Total PFOA	**0.23**	**J**	0.26	0.068	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.062	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Br-Perfluorooctanoic acid	ND		0.26	0.068	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.029	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Br-Perfluorohexanesulfonic acid	ND		0.26	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Br-Perfluorooctanesulfonic acid	**0.84**		0.26	0.055	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Total PFHxS	**0.51**		0.26	0.037	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Total PFOS	**2.3**		0.26	0.055	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1
Total NMeFOSAA	ND		0.26	0.029	ng/g	☼	06/17/22 12:10	06/26/22 07:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
M2-6:2 FTS	*109*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
M2-8:2 FTS	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 0955 WPS
Lab Sample ID: 240-168146-8

Date Collected: 06/07/22 09:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 75.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C3 HFPO-DA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C4 PFBA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C5 PFPeA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
d3-NMeFOSAA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C2 PFHxA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C5 PFNA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C2 PFDA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C2 PFUnA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C2 PFDoA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
18O2 PFHxS	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*
13C4 PFOS	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 07:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.6**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**75.4**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220607 1645 WPS

Date Collected: 06/07/22 16:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-9

Matrix: Solid
Percent Solids: 72.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.27	0.042	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
4:2 Fluorotelomer sulfonic acid	ND		0.27	0.068	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
6:2 Fluorotelomer sulfonic acid	ND		0.27	0.036	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
8:2 Fluorotelomer sulfonic acid	ND		0.27	0.047	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
9Cl-PF3ONS	ND		0.27	0.047	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
DONA	ND		0.27	0.052	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
HFPODA	ND		0.27	0.055	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.064	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorobutanesulfonic acid	ND		0.27	0.051	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorobutanoic acid	**0.14**	**J**	0.27	0.062	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorodecanesulfonic acid	ND		0.27	0.070	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorodecanoic acid	ND		0.27	0.064	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorododecanoic acid	ND		0.27	0.040	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluoroheptanesulfonic acid	ND		0.27	0.066	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluoroheptanoic acid	ND		0.27	0.051	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
L-Perfluorohexanesulfonic acid	**0.20**	**J**	0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorohexanoic acid	**0.069**	**J**	0.27	0.042	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorononanesulfonic acid	ND		0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorononanoic acid	ND		0.27	0.029	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorooctanesulfonamide	ND		0.27	0.044	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
L-Perfluorooctanesulfonic acid	**0.27**		0.27	0.058	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
L-Perfluorooctanoic acid	ND		0.27	0.071	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluoropentanesulfonic acid	ND		0.27	0.050	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluoropentanoic acid	ND		0.27	0.055	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorotetradecanoic acid	ND		0.27	0.050	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluorotridecanoic acid	ND		0.27	0.028	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluoroundecanoic acid	ND		0.27	0.056	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.27	0.059	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
FBSA	ND		0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
FHxSA	ND		0.27	0.046	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Total NEtFOSAA	ND		0.27	0.064	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Total PFOA	ND		0.27	0.071	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.064	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Br-Perfluorooctanoic acid	ND		0.27	0.071	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Br-Perfluorohexanesulfonic acid	ND		0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Br-Perfluorooctanesulfonic acid	**0.33**		0.27	0.058	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Total PFHxS	**0.20**	**J**	0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Total PFOS	**0.60**		0.27	0.058	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1
Total NMeFOSAA	ND		0.27	0.031	ng/g	☼	06/17/22 12:10	06/26/22 08:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
M2-6:2 FTS	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1645 WPS
Lab Sample ID: 240-168146-9

Date Collected: 06/07/22 16:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 72.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*81*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C3 HFPO-DA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C4 PFBA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C4 PFHpA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C5 PFPeA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
d3-NMeFOSAA	*84*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
d5-NEtFOSAA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C8 FOSA	*79*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C2 PFHxA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C4 PFOA	*84*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C5 PFNA	*76*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C2 PFDA	*75*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C2 PFUnA	*83*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C2 PFDoA	*87*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
18O2 PFHxS	*91*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*
13C4 PFOS	*68*		*25 - 150*	*06/17/22 12:10*	*06/26/22 08:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.1**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**72.9**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 2206071655 WPS

Date Collected: 06/07/22 16:55
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-10

Matrix: Solid
Percent Solids: 72.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.27	0.042	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
4:2 Fluorotelomer sulfonic acid	ND		0.27	0.069	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
6:2 Fluorotelomer sulfonic acid	ND		0.27	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
8:2 Fluorotelomer sulfonic acid	ND		0.27	0.047	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
9Cl-PF3ONS	ND		0.27	0.047	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
DONA	ND		0.27	0.053	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
HFPODA	ND		0.27	0.055	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.065	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorobutanesulfonic acid	ND		0.27	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorobutanoic acid	**0.15**	**J**	0.27	0.062	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorodecanesulfonic acid	ND		0.27	0.070	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorodecanoic acid	ND		0.27	0.065	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorododecanoic acid	ND		0.27	0.040	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluoroheptanesulfonic acid	ND		0.27	0.066	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluoroheptanoic acid	ND		0.27	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
L-Perfluorohexanesulfonic acid	**0.099**	**J**	0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorohexanoic acid	**0.067**	**J**	0.27	0.042	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorononanesulfonic acid	ND		0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorononanoic acid	ND		0.27	0.030	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorooctanesulfonamide	ND		0.27	0.044	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
L-Perfluorooctanesulfonic acid	**0.32**		0.27	0.058	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
L-Perfluorooctanoic acid	**0.092**	**J**	0.27	0.071	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluoropentanesulfonic acid	ND		0.27	0.050	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluoropentanoic acid	ND		0.27	0.055	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorotetradecanoic acid	ND		0.27	0.050	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluorotridecanoic acid	ND		0.27	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluoroundecanoic acid	ND		0.27	0.057	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.27	0.059	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
FBSA	ND		0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
FHxSA	ND		0.27	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Total NEtFOSAA	ND		0.27	0.065	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Total PFOA	**0.092**	**J**	0.27	0.071	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.065	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Br-Perfluorooctanoic acid	ND		0.27	0.071	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Br-Perfluorohexanesulfonic acid	ND		0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Br-Perfluorooctanesulfonic acid	**0.21**	**J**	0.27	0.058	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Total PFHxS	**0.099**	**J**	0.27	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Total PFOS	**0.53**		0.27	0.058	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1
Total NMeFOSAA	ND		0.27	0.031	ng/g	☼	06/17/22 12:10	06/26/22 09:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
M2-6:2 FTS	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
M2-8:2 FTS	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 2206071655 WPS
Lab Sample ID: 240-168146-10

Date Collected: 06/07/22 16:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 72.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*89*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C3 HFPO-DA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C3 PFBS	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C4 PFBA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C4 PFHpA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
d3-NMeFOSAA	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
d5-NEtFOSAA	*93*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C8 FOSA	*85*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C2 PFHxA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C4 PFOA	*83*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C5 PFNA	*78*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C2 PFDA	*77*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C2 PFUnA	*88*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C2 PFDoA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
18O2 PFHxS	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*
13C4 PFOS	*77*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.6**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**72.4**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220607 1730 WPS

Date Collected: 06/07/22 17:30
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-11

Matrix: Solid
Percent Solids: 93.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.19	0.030	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
4:2 Fluorotelomer sulfonic acid	ND		0.19	0.049	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
6:2 Fluorotelomer sulfonic acid	ND		0.19	0.026	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
8:2 Fluorotelomer sulfonic acid	ND		0.19	0.033	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
9Cl-PF3ONS	ND		0.19	0.033	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
DONA	ND		0.19	0.037	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
HFPODA	ND		0.19	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.19	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.19	0.022	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorobutanesulfonic acid	ND		0.19	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorobutanoic acid	**0.061**	**J**	0.19	0.044	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorodecanesulfonic acid	ND		0.19	0.050	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorodecanoic acid	ND		0.19	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorododecanoic acid	ND		0.19	0.029	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluoroheptanesulfonic acid	ND		0.19	0.047	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluoroheptanoic acid	**0.059**	**J**	0.19	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
L-Perfluorohexanesulfonic acid	**0.086**	**J**	0.19	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorohexanoic acid	**0.097**	**J**	0.19	0.030	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorononanesulfonic acid	ND		0.19	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorononanoic acid	ND		0.19	0.021	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorooctanesulfonamide	ND		0.19	0.031	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
L-Perfluorooctanesulfonic acid	**0.24**		0.19	0.041	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
L-Perfluorooctanoic acid	ND		0.19	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluoropentanesulfonic acid	ND		0.19	0.035	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluoropentanoic acid	ND		0.19	0.039	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorotetradecanoic acid	ND		0.19	0.035	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluorotridecanoic acid	ND		0.19	0.020	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluoroundecanoic acid	ND		0.19	0.040	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.19	0.042	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
FBSA	ND		0.19	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
FHxSA	ND		0.19	0.032	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Total NEtFOSAA	ND		0.19	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Total PFOA	ND		0.19	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.19	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Br-Perfluorooctanoic acid	ND		0.19	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.19	0.022	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Br-Perfluorohexanesulfonic acid	ND		0.19	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Br-Perfluorooctanesulfonic acid	**0.40**		0.19	0.041	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Total PFHxS	**0.086**	**J**	0.19	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Total PFOS	**0.64**		0.19	0.041	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1
Total NMeFOSAA	ND		0.19	0.022	ng/g	☼	06/17/22 12:10	06/26/22 09:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*140*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
M2-6:2 FTS	*116*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1730 WPS
Lab Sample ID: 240-168146-11

Date Collected: 06/07/22 17:30
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 93.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C3 HFPO-DA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C3 PFBS	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C4 PFBA	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C5 PFPeA	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
d3-NMeFOSAA	*88*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C2 PFHxA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C4 PFOA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C5 PFNA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C2 PFDA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C2 PFUnA	*89*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C2 PFDoA	*88*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
18O2 PFHxS	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*
13C4 PFOS	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.4**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**93.6**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220607 1735 WPS

Date Collected: 06/07/22 17:35
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-12

Matrix: Solid
Percent Solids: 77.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.25	0.038	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
4:2 Fluorotelomer sulfonic acid	ND		0.25	0.063	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
6:2 Fluorotelomer sulfonic acid	ND		0.25	0.033	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
8:2 Fluorotelomer sulfonic acid	ND		0.25	0.043	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
9Cl-PF3ONS	ND		0.25	0.043	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
DONA	ND		0.25	0.048	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
HFPODA	ND		0.25	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.059	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorobutanesulfonic acid	ND		0.25	0.047	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorobutanoic acid	ND		0.25	0.057	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorodecanesulfonic acid	ND		0.25	0.064	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorodecanoic acid	ND		0.25	0.059	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorododecanoic acid	ND		0.25	0.037	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluoroheptanesulfonic acid	ND		0.25	0.061	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluoroheptanoic acid	ND		0.25	0.047	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
L-Perfluorohexanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorohexanoic acid	ND		0.25	0.038	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorononanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorononanoic acid	ND		0.25	0.027	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorooctanesulfonamide	ND		0.25	0.041	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
L-Perfluorooctanesulfonic acid	**0.26**		0.25	0.053	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
L-Perfluorooctanoic acid	ND		0.25	0.066	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluoropentanesulfonic acid	ND		0.25	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluoropentanoic acid	ND		0.25	0.051	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorotetradecanoic acid	ND		0.25	0.046	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluorotridecanoic acid	ND		0.25	0.026	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluoroundecanoic acid	ND		0.25	0.052	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.25	0.055	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
FBSA	ND		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
FHxSA	ND		0.25	0.042	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Total NEtFOSAA	ND		0.25	0.059	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Total PFOA	ND		0.25	0.066	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.059	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Br-Perfluorooctanoic acid	ND		0.25	0.066	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Br-Perfluorohexanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Br-Perfluorooctanesulfonic acid	**0.058**	**J**	0.25	0.053	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Total PFHxS	ND		0.25	0.036	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Total PFOS	**0.32**		0.25	0.053	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1
Total NMeFOSAA	ND		0.25	0.028	ng/g	☼	06/17/22 12:10	06/26/22 09:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
M2-6:2 FTS	*122*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
M2-8:2 FTS	*116*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1735 WPS
Lab Sample ID: 240-168146-12

Date Collected: 06/07/22 17:35
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 77.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*101*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C3 HFPO-DA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C3 PFBS	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C4 PFBA	*86*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C5 PFPeA	*104*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
d3-NMeFOSAA	*116*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
d5-NEtFOSAA	*115*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C8 FOSA	*111*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C2 PFHxA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C5 PFNA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C2 PFDA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C2 PFUnA	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C2 PFDoA	*106*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
18O2 PFHxS	*104*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*
13C4 PFOS	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 09:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.4**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**77.6**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220607 1810 WPS

Date Collected: 06/07/22 18:10
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-13

Matrix: Solid
Percent Solids: 89.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.20	0.032	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
4:2 Fluorotelomer sulfonic acid	ND		0.20	0.052	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.027	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.036	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
9Cl-PF3ONS	ND		0.20	0.036	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
DONA	ND		0.20	0.040	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
HFPODA	ND		0.20	0.042	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.20	0.049	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorobutanesulfonic acid	ND		0.20	0.039	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorobutanoic acid	**0.051**	**J**	0.20	0.047	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorodecanesulfonic acid	ND		0.20	0.053	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorodecanoic acid	ND		0.20	0.049	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorododecanoic acid	ND		0.20	0.031	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluoroheptanesulfonic acid	ND		0.20	0.050	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluoroheptanoic acid	ND		0.20	0.039	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
L-Perfluorohexanesulfonic acid	ND		0.20	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorohexanoic acid	**0.034**	**J**	0.20	0.032	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorononanesulfonic acid	ND		0.20	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorononanoic acid	**0.11**	**J**	0.20	0.022	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorooctanesulfonamide	ND		0.20	0.034	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
L-Perfluorooctanesulfonic acid	**7.6**		0.20	0.044	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
L-Perfluorooctanoic acid	**0.14**	**J**	0.20	0.054	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluoropentanesulfonic acid	ND		0.20	0.038	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluoropentanoic acid	**0.051**	**J**	0.20	0.042	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorotetradecanoic acid	ND		0.20	0.038	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluoroundecanoic acid	ND		0.20	0.043	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.20	0.045	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
FBSA	ND		0.20	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
FHxSA	ND		0.20	0.035	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Total NEtFOSAA	ND		0.20	0.049	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Total PFOA	**0.14**	**J**	0.20	0.054	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.20	0.049	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Br-Perfluorooctanoic acid	ND		0.20	0.054	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Br-Perfluorohexanesulfonic acid	ND		0.20	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Br-Perfluorooctanesulfonic acid	**1.1**		0.20	0.044	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Total PFHxS	ND		0.20	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Total PFOS	**8.7**		0.20	0.044	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1
Total NMeFOSAA	ND		0.20	0.023	ng/g	☼	06/17/22 12:10	06/26/22 10:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*124*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
M2-6:2 FTS	*120*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1810 WPS
Lab Sample ID: 240-168146-13

Date Collected: 06/07/22 18:10
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 89.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*108*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C3 HFPO-DA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C3 PFBS	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C4 PFBA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C5 PFPeA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
d3-NMeFOSAA	*99*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
d5-NEtFOSAA	*108*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C8 FOSA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C2 PFHxA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C4 PFOA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C5 PFNA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C2 PFDA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C2 PFUnA	*100*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C2 PFDoA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
18O2 PFHxS	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*
13C4 PFOS	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**89.7**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220607 1810 WPS-FD

Date Collected: 06/07/22 18:10
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-14

Matrix: Solid
Percent Solids: 90.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.21	0.032	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
4:2 Fluorotelomer sulfonic acid	ND		0.21	0.053	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.028	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.036	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
9Cl-PF3ONS	ND		0.21	0.036	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
DONA	ND		0.21	0.040	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
HFPODA	ND		0.21	0.042	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorobutanesulfonic acid	ND		0.21	0.039	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorobutanoic acid	**0.075**	**J**	0.21	0.047	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorodecanesulfonic acid	ND		0.21	0.054	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorodecanoic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorododecanoic acid	ND		0.21	0.031	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluoroheptanesulfonic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluoroheptanoic acid	ND		0.21	0.039	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
L-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorohexanoic acid	**0.033**	**J**	0.21	0.032	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorononanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorononanoic acid	**0.10**	**J**	0.21	0.023	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorooctanesulfonamide	ND		0.21	0.034	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
L-Perfluorooctanesulfonic acid	**7.2**	**F1**	0.21	0.044	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
L-Perfluorooctanoic acid	**0.12**	**J**	0.21	0.055	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluoropentanesulfonic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluoropentanoic acid	**0.055**	**J**	0.21	0.042	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorotetradecanoic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluoroundecanoic acid	ND		0.21	0.043	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.21	0.045	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
FBSA	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
FHxSA	ND		0.21	0.035	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Total NEtFOSAA	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Total PFOA	**0.12**	**J**	0.21	0.055	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Br-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Br-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Br-Perfluorooctanesulfonic acid	**0.96**		0.21	0.044	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Total PFHxS	ND		0.21	0.030	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Total PFOS	**8.1**		0.21	0.044	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1
Total NMeFOSAA	ND		0.21	0.024	ng/g	☼	06/17/22 12:10	06/26/22 10:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*122*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
M2-6:2 FTS	*113*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
M2-8:2 FTS	*105*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1810 WPS-FD
Lab Sample ID: 240-168146-14

Date Collected: 06/07/22 18:10
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 90.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C3 HFPO-DA	*95*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C4 PFBA	*59*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
d3-NMeFOSAA	*103*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
d5-NEtFOSAA	*112*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C8 FOSA	*106*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C2 PFHxA	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C4 PFOA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C5 PFNA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C2 PFDA	*98*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C2 PFUnA	*102*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C2 PFDoA	*104*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
18O2 PFHxS	*96*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*
13C4 PFOS	*94*		*25 - 150*	*06/17/22 12:10*	*06/26/22 10:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**90.8**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: FB 220606 1430 WPS

Lab Sample ID: 240-168146-15

Date Collected: 06/06/22 14:30
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	H	4.5	2.2	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluoropentanoic acid	ND	H	1.8	0.45	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorohexanoic acid	ND	H	1.8	0.53	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluoroheptanoic acid	ND	H	1.8	0.23	ng/L		06/22/22 12:54	06/25/22 22:26	1
L-Perfluorooctanoic acid	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorononanoic acid	ND	H	1.8	0.25	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorodecanoic acid	ND	H	1.8	0.28	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluoroundecanoic acid	ND	H	1.8	1.0	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorododecanoic acid	ND	H	1.8	0.50	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorotridecanoic acid	ND	H	1.8	1.2	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorotetradecanoic acid	ND	H	1.8	0.66	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorobutanesulfonic acid	ND	H	1.8	0.18	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluoropentanesulfonic acid	ND	H	1.8	0.27	ng/L		06/22/22 12:54	06/25/22 22:26	1
L-Perfluorohexanesulfonic acid	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluoroheptanesulfonic acid	ND	H	1.8	0.17	ng/L		06/22/22 12:54	06/25/22 22:26	1
L-Perfluorooctanesulfonic acid	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorononanesulfonic acid	ND	H	1.8	0.34	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorodecanesulfonic acid	ND	H	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluorooctanesulfonamide	ND	H	1.8	0.89	ng/L		06/22/22 12:54	06/25/22 22:26	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.1	ng/L		06/22/22 12:54	06/25/22 22:26	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.2	ng/L		06/22/22 12:54	06/25/22 22:26	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/25/22 22:26	1
6:2 Fluorotelomer sulfonic acid	ND	H	4.5	2.3	ng/L		06/22/22 12:54	06/25/22 22:26	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.42	ng/L		06/22/22 12:54	06/25/22 22:26	1
DONA	ND	H	1.8	0.36	ng/L		06/22/22 12:54	06/25/22 22:26	1
HFPODA	ND	H	3.6	1.4	ng/L		06/22/22 12:54	06/25/22 22:26	1
9Cl-PF3ONS	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/25/22 22:26	1
11Cl-PF3OUdS	ND	H *+	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 22:26	1
FHxSA	ND	H	1.8	0.20	ng/L		06/22/22 12:54	06/25/22 22:26	1
FBSA	ND	H	1.8	0.32	ng/L		06/22/22 12:54	06/25/22 22:26	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	H	1.8	0.41	ng/L		06/22/22 12:54	06/25/22 22:26	1
Total NEtFOSAA	ND	H	4.5	1.2	ng/L		06/22/22 12:54	06/25/22 22:26	1
Total PFOA	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 22:26	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.2	ng/L		06/22/22 12:54	06/25/22 22:26	1
Br-Perfluorooctanoic acid	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 22:26	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.1	ng/L		06/22/22 12:54	06/25/22 22:26	1
Br-Perfluorohexanesulfonic acid	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 22:26	1
Br-Perfluorooctanesulfonic acid	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 22:26	1
Total PFHxS	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 22:26	1
Total PFOS	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 22:26	1
Total NMeFOSAA	ND	H	4.5	1.1	ng/L		06/22/22 12:54	06/25/22 22:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*06/22/22 12:54*	*06/25/22 22:26*	*1*
13C5 PFPeA	*91*		*25 - 150*	*06/22/22 12:54*	*06/25/22 22:26*	*1*
13C2 PFHxA	*90*		*25 - 150*	*06/22/22 12:54*	*06/25/22 22:26*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB 220606 1430 WPS
Lab Sample ID: 240-168146-15

Date Collected: 06/06/22 14:30
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	91		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C4 PFOA	91		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C5 PFNA	94		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C2 PFDA	89		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C2 PFUnA	103		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C2 PFDoA	97		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C2 PFTeDA	106		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C3 PFBS	87		25 - 150	06/22/22 12:54	06/25/22 22:26	1
18O2 PFHxS	91		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C4 PFOS	87		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C8 FOSA	90		25 - 150	06/22/22 12:54	06/25/22 22:26	1
d3-NMeFOSAA	93		25 - 150	06/22/22 12:54	06/25/22 22:26	1
d5-NEtFOSAA	105		25 - 150	06/22/22 12:54	06/25/22 22:26	1
M2-4:2 FTS	104		25 - 150	06/22/22 12:54	06/25/22 22:26	1
M2-6:2 FTS	103		25 - 150	06/22/22 12:54	06/25/22 22:26	1
M2-8:2 FTS	100		25 - 150	06/22/22 12:54	06/25/22 22:26	1
13C3 HFPO-DA	89		25 - 150	06/22/22 12:54	06/25/22 22:26	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: EB 220606 1910 WPS

Lab Sample ID: 240-168146-16

Date Collected: 06/06/22 19:10
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	H	4.5	2.2	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluoropentanoic acid	ND	H	1.8	0.45	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorohexanoic acid	ND	H	1.8	0.53	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluoroheptanoic acid	ND	H	1.8	0.23	ng/L		06/22/22 12:54	06/25/22 22:49	1
L-Perfluorooctanoic acid	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorononanoic acid	ND	H	1.8	0.25	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorodecanoic acid	ND	H	1.8	0.28	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluoroundecanoic acid	ND	H	1.8	1.0	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorododecanoic acid	ND	H	1.8	0.50	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorotridecanoic acid	ND	H	1.8	1.2	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorotetradecanoic acid	ND	H	1.8	0.66	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorobutanesulfonic acid	ND	H	1.8	0.18	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluoropentanesulfonic acid	ND	H	1.8	0.27	ng/L		06/22/22 12:54	06/25/22 22:49	1
L-Perfluorohexanesulfonic acid	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluoroheptanesulfonic acid	ND	H	1.8	0.17	ng/L		06/22/22 12:54	06/25/22 22:49	1
L-Perfluorooctanesulfonic acid	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorononanesulfonic acid	ND	H	1.8	0.34	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorodecanesulfonic acid	ND	H	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluorooctanesulfonamide	ND	H	1.8	0.89	ng/L		06/22/22 12:54	06/25/22 22:49	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.1	ng/L		06/22/22 12:54	06/25/22 22:49	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.2	ng/L		06/22/22 12:54	06/25/22 22:49	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/25/22 22:49	1
6:2 Fluorotelomer sulfonic acid	ND	H	4.5	2.3	ng/L		06/22/22 12:54	06/25/22 22:49	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.42	ng/L		06/22/22 12:54	06/25/22 22:49	1
DONA	ND	H	1.8	0.36	ng/L		06/22/22 12:54	06/25/22 22:49	1
HFPODA	ND	H	3.6	1.4	ng/L		06/22/22 12:54	06/25/22 22:49	1
9Cl-PF3ONS	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/25/22 22:49	1
11Cl-PF3OUdS	ND	H *+	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 22:49	1
FHxSA	ND	H	1.8	0.20	ng/L		06/22/22 12:54	06/25/22 22:49	1
FBSA	ND	H	1.8	0.32	ng/L		06/22/22 12:54	06/25/22 22:49	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	H	1.8	0.41	ng/L		06/22/22 12:54	06/25/22 22:49	1
Total NEtFOSAA	ND	H	4.5	1.2	ng/L		06/22/22 12:54	06/25/22 22:49	1
Total PFOA	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 22:49	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.2	ng/L		06/22/22 12:54	06/25/22 22:49	1
Br-Perfluorooctanoic acid	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 22:49	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.5	1.1	ng/L		06/22/22 12:54	06/25/22 22:49	1
Br-Perfluorohexanesulfonic acid	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 22:49	1
Br-Perfluorooctanesulfonic acid	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 22:49	1
Total PFHxS	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 22:49	1
Total PFOS	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 22:49	1
Total NMeFOSAA	ND	H	4.5	1.1	ng/L		06/22/22 12:54	06/25/22 22:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71*		*25 - 150*	*06/22/22 12:54*	*06/25/22 22:49*	*1*
13C5 PFPeA	*69*		*25 - 150*	*06/22/22 12:54*	*06/25/22 22:49*	*1*
13C2 PFHxA	*75*		*25 - 150*	*06/22/22 12:54*	*06/25/22 22:49*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB 220606 1910 WPS
Lab Sample ID: 240-168146-16

Date Collected: 06/06/22 19:10
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	73		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C4 PFOA	75		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C5 PFNA	76		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C2 PFDA	74		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C2 PFUnA	87		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C2 PFDoA	85		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C2 PFTeDA	91		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C3 PFBS	77		25 - 150	06/22/22 12:54	06/25/22 22:49	1
18O2 PFHxS	78		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C4 PFOS	78		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C8 FOSA	81		25 - 150	06/22/22 12:54	06/25/22 22:49	1
d3-NMeFOSAA	82		25 - 150	06/22/22 12:54	06/25/22 22:49	1
d5-NEtFOSAA	87		25 - 150	06/22/22 12:54	06/25/22 22:49	1
M2-4:2 FTS	86		25 - 150	06/22/22 12:54	06/25/22 22:49	1
M2-6:2 FTS	89		25 - 150	06/22/22 12:54	06/25/22 22:49	1
M2-8:2 FTS	84		25 - 150	06/22/22 12:54	06/25/22 22:49	1
13C3 HFPO-DA	71		25 - 150	06/22/22 12:54	06/25/22 22:49	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: FB 220607 1100 WPS

Lab Sample ID: 240-168146-17

Date Collected: 06/07/22 11:00
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	H	4.6	2.2	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluoropentanoic acid	ND	H	1.8	0.45	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorohexanoic acid	ND	H	1.8	0.54	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluoroheptanoic acid	ND	H	1.8	0.23	ng/L		06/22/22 12:54	06/29/22 16:11	1
L-Perfluorooctanoic acid	ND	H	1.8	0.79	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorononanoic acid	ND	H	1.8	0.25	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorodecanoic acid	ND	H	1.8	0.29	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluoroundecanoic acid	ND	H	1.8	1.0	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorododecanoic acid	ND	H	1.8	0.51	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorotridecanoic acid	ND	H	1.8	1.2	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorotetradecanoic acid	ND	H	1.8	0.67	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorobutanesulfonic acid	ND	H	1.8	0.18	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluoropentanesulfonic acid	ND	H	1.8	0.28	ng/L		06/22/22 12:54	06/29/22 16:11	1
L-Perfluorohexanesulfonic acid	ND	H	1.8	0.53	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluoroheptanesulfonic acid	ND	H	1.8	0.18	ng/L		06/22/22 12:54	06/29/22 16:11	1
L-Perfluorooctanesulfonic acid	ND	H	1.8	0.50	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorononanesulfonic acid	ND	H	1.8	0.34	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorodecanesulfonic acid	ND	H	1.8	0.30	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluorooctanesulfonamide	ND	H	1.8	0.91	ng/L		06/22/22 12:54	06/29/22 16:11	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.6	1.1	ng/L		06/22/22 12:54	06/29/22 16:11	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND	H	4.6	1.2	ng/L		06/22/22 12:54	06/29/22 16:11	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/29/22 16:11	1
6:2 Fluorotelomer sulfonic acid	ND	H	4.6	2.3	ng/L		06/22/22 12:54	06/29/22 16:11	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.43	ng/L		06/22/22 12:54	06/29/22 16:11	1
DONA	ND	H	1.8	0.37	ng/L		06/22/22 12:54	06/29/22 16:11	1
HFPODA	ND	H	3.7	1.4	ng/L		06/22/22 12:54	06/29/22 16:11	1
9Cl-PF3ONS	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/29/22 16:11	1
11Cl-PF3OUdS	ND	*+ H	1.8	0.30	ng/L		06/22/22 12:54	06/29/22 16:11	1
FHxSA	ND	H	1.8	0.20	ng/L		06/22/22 12:54	06/29/22 16:11	1
FBSA	ND	H	1.8	0.32	ng/L		06/22/22 12:54	06/29/22 16:11	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	H	1.8	0.42	ng/L		06/22/22 12:54	06/29/22 16:11	1
Total NEtFOSAA	ND	H	4.6	1.2	ng/L		06/22/22 12:54	06/29/22 16:11	1
Total PFOA	ND	H	1.8	0.79	ng/L		06/22/22 12:54	06/29/22 16:11	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND	H	4.6	1.2	ng/L		06/22/22 12:54	06/29/22 16:11	1
Br-Perfluorooctanoic acid	ND	H	1.8	0.79	ng/L		06/22/22 12:54	06/29/22 16:11	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.6	1.1	ng/L		06/22/22 12:54	06/29/22 16:11	1
Br-Perfluorohexanesulfonic acid	ND	H	1.8	0.53	ng/L		06/22/22 12:54	06/29/22 16:11	1
Br-Perfluorooctanesulfonic acid	ND	H	1.8	0.50	ng/L		06/22/22 12:54	06/29/22 16:11	1
Total PFHxS	ND	H	1.8	0.53	ng/L		06/22/22 12:54	06/29/22 16:11	1
Total PFOS	ND	H	1.8	0.50	ng/L		06/22/22 12:54	06/29/22 16:11	1
Total NMeFOSAA	ND	H	4.6	1.1	ng/L		06/22/22 12:54	06/29/22 16:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*59*		*25 - 150*	*06/22/22 12:54*	*06/29/22 16:11*	*1*
13C5 PFPeA	*60*		*25 - 150*	*06/22/22 12:54*	*06/29/22 16:11*	*1*
13C2 PFHxA	*60*		*25 - 150*	*06/22/22 12:54*	*06/29/22 16:11*	*1*

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB 220607 1100 WPS
Lab Sample ID: 240-168146-17

Date Collected: 06/07/22 11:00
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	61		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C4 PFOA	61		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C5 PFNA	61		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C2 PFDA	62		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C2 PFUnA	72		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C2 PFDoA	65		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C2 PFTeDA	76		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C3 PFBS	66		25 - 150	06/22/22 12:54	06/29/22 16:11	1
18O2 PFHxS	64		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C4 PFOS	61		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C8 FOSA	64		25 - 150	06/22/22 12:54	06/29/22 16:11	1
d3-NMeFOSAA	64		25 - 150	06/22/22 12:54	06/29/22 16:11	1
d5-NEtFOSAA	76		25 - 150	06/22/22 12:54	06/29/22 16:11	1
M2-4:2 FTS	74		25 - 150	06/22/22 12:54	06/29/22 16:11	1
M2-6:2 FTS	76		25 - 150	06/22/22 12:54	06/29/22 16:11	1
M2-8:2 FTS	71		25 - 150	06/22/22 12:54	06/29/22 16:11	1
13C3 HFPO-DA	58		25 - 150	06/22/22 12:54	06/29/22 16:11	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: EB 220607 1900 WPS

Lab Sample ID: 240-168146-18

Date Collected: 06/07/22 19:00
Date Received: 06/11/22 10:00

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	H	4.6	2.2	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluoropentanoic acid	ND	H	1.8	0.45	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorohexanoic acid	ND	H	1.8	0.53	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluoroheptanoic acid	**0.44**	**J H**	1.8	0.23	ng/L		06/22/22 12:54	06/25/22 23:34	1
L-Perfluorooctanoic acid	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorononanoic acid	ND	H	1.8	0.25	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorodecanoic acid	ND	H	1.8	0.28	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluoroundecanoic acid	ND	H	1.8	1.0	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorododecanoic acid	ND	H	1.8	0.50	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorotridecanoic acid	ND	H	1.8	1.2	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorotetradecanoic acid	ND	H	1.8	0.67	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorobutanesulfonic acid	ND	H	1.8	0.18	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluoropentanesulfonic acid	ND	H	1.8	0.27	ng/L		06/22/22 12:54	06/25/22 23:34	1
L-Perfluorohexanesulfonic acid	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluoroheptanesulfonic acid	ND	H	1.8	0.17	ng/L		06/22/22 12:54	06/25/22 23:34	1
L-Perfluorooctanesulfonic acid	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorononanesulfonic acid	ND	H	1.8	0.34	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorodecanesulfonic acid	ND	H	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluorooctanesulfonamide	ND	H	1.8	0.89	ng/L		06/22/22 12:54	06/25/22 23:34	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.6	1.1	ng/L		06/22/22 12:54	06/25/22 23:34	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND	H	4.6	1.2	ng/L		06/22/22 12:54	06/25/22 23:34	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/25/22 23:34	1
6:2 Fluorotelomer sulfonic acid	ND	H	4.6	2.3	ng/L		06/22/22 12:54	06/25/22 23:34	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.8	0.42	ng/L		06/22/22 12:54	06/25/22 23:34	1
DONA	ND	H	1.8	0.36	ng/L		06/22/22 12:54	06/25/22 23:34	1
HFPODA	ND	H	3.6	1.4	ng/L		06/22/22 12:54	06/25/22 23:34	1
9Cl-PF3ONS	ND	H	1.8	0.22	ng/L		06/22/22 12:54	06/25/22 23:34	1
11Cl-PF3OUdS	ND	H *+	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 23:34	1
FHxSA	ND	H	1.8	0.20	ng/L		06/22/22 12:54	06/25/22 23:34	1
FBSA	ND	H	1.8	0.32	ng/L		06/22/22 12:54	06/25/22 23:34	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	H	1.8	0.41	ng/L		06/22/22 12:54	06/25/22 23:34	1
Total NEtFOSAA	ND	H	4.6	1.2	ng/L		06/22/22 12:54	06/25/22 23:34	1
Total PFOA	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 23:34	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND	H	4.6	1.2	ng/L		06/22/22 12:54	06/25/22 23:34	1
Br-Perfluorooctanoic acid	ND	H	1.8	0.77	ng/L		06/22/22 12:54	06/25/22 23:34	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND	H	4.6	1.1	ng/L		06/22/22 12:54	06/25/22 23:34	1
Br-Perfluorohexanesulfonic acid	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 23:34	1
Br-Perfluorooctanesulfonic acid	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 23:34	1
Total PFHxS	ND	H	1.8	0.52	ng/L		06/22/22 12:54	06/25/22 23:34	1
Total PFOS	ND	H	1.8	0.49	ng/L		06/22/22 12:54	06/25/22 23:34	1
Total NMeFOSAA	ND	H	4.6	1.1	ng/L		06/22/22 12:54	06/25/22 23:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78*		*25 - 150*	*06/22/22 12:54*	*06/25/22 23:34*	*1*
13C5 PFPeA	*79*		*25 - 150*	*06/22/22 12:54*	*06/25/22 23:34*	*1*
13C2 PFHxA	*77*		*25 - 150*	*06/22/22 12:54*	*06/25/22 23:34*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB 220607 1900 WPS
Lab Sample ID: 240-168146-18

Date Collected: 06/07/22 19:00
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	81		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C4 PFOA	80		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C5 PFNA	82		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C2 PFDA	82		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C2 PFUnA	99		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C2 PFDoA	83		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C2 PFTeDA	97		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C3 PFBS	81		25 - 150	06/22/22 12:54	06/25/22 23:34	1
18O2 PFHxS	86		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C4 PFOS	81		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C8 FOSA	87		25 - 150	06/22/22 12:54	06/25/22 23:34	1
d3-NMeFOSAA	72		25 - 150	06/22/22 12:54	06/25/22 23:34	1
d5-NEtFOSAA	93		25 - 150	06/22/22 12:54	06/25/22 23:34	1
M2-4:2 FTS	102		25 - 150	06/22/22 12:54	06/25/22 23:34	1
M2-6:2 FTS	98		25 - 150	06/22/22 12:54	06/25/22 23:34	1
M2-8:2 FTS	98		25 - 150	06/22/22 12:54	06/25/22 23:34	1
13C3 HFPO-DA	76		25 - 150	06/22/22 12:54	06/25/22 23:34	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 0940 WPS

Date Collected: 06/08/22 09:40
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-19

Matrix: Solid
Percent Solids: 84.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
6:2 Fluorotelomer sulfonic acid	**0.054**	**J**	0.23	0.031	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
8:2 Fluorotelomer sulfonic acid	**1.1**		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
DONA	ND		0.23	0.044	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
HFPODA	ND		0.23	0.046	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorobutanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorobutanoic acid	**0.094**	**J**	0.23	0.052	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorodecanesulfonic acid	**0.093**	**J**	0.23	0.059	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorodecanoic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluoroheptanesulfonic acid	ND		0.23	0.056	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluoroheptanoic acid	**0.077**	**J**	0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
L-Perfluorohexanesulfonic acid	**0.41**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorohexanoic acid	**0.097**	**J**	0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorononanesulfonic acid	**0.12**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorononanoic acid	**0.38**		0.23	0.025	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorooctanesulfonamide	**0.14**	**J**	0.23	0.037	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
L-Perfluorooctanesulfonic acid	**27**	**E**	0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
L-Perfluorooctanoic acid	**0.12**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluoropentanesulfonic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluoropentanoic acid	**0.12**	**J**	0.23	0.046	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluoroundecanoic acid	ND		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
FHxSA	**0.19**	**J**	0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Total NEtFOSAA	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Total PFOA	**0.12**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Br-Perfluorohexanesulfonic acid	**0.050**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Br-Perfluorooctanesulfonic acid	**11**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Total PFHxS	**0.46**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Total PFOS	**38**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 01:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
M2-6:2 FTS	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
M2-8:2 FTS	*101*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 0940 WPS
Lab Sample ID: 240-168146-19

Date Collected: 06/08/22 09:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 84.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C3 HFPO-DA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C3 PFBS	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C4 PFBA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C4 PFHpA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C5 PFPeA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
d3-NMeFOSAA	*101*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
d5-NEtFOSAA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C2 PFHxA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C5 PFNA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C2 PFDA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C2 PFUnA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C2 PFDoA	*101*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
18O2 PFHxS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*
13C4 PFOS	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 01:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.7**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**84.3**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 0945 WPS

Date Collected: 06/08/22 09:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-20

Matrix: Solid
Percent Solids: 80.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
6:2 Fluorotelomer sulfonic acid	**0.074**	**J**	0.23	0.031	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
8:2 Fluorotelomer sulfonic acid	**0.32**		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
DONA	ND		0.23	0.044	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
HFPODA	ND		0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorobutanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorobutanoic acid	**0.063**	**J**	0.23	0.052	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorodecanesulfonic acid	ND		0.23	0.059	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorodecanoic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluoroheptanesulfonic acid	ND		0.23	0.056	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluoroheptanoic acid	**0.050**	**J**	0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
L-Perfluorohexanesulfonic acid	**0.39**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorohexanoic acid	**0.068**	**J**	0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorononanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorononanoic acid	**0.16**	**J**	0.23	0.025	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorooctanesulfonamide	ND		0.23	0.037	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
L-Perfluorooctanesulfonic acid	**12**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
L-Perfluorooctanoic acid	**0.077**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluoropentanesulfonic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluoropentanoic acid	**0.082**	**J**	0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluoroundecanoic acid	ND		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
FHxSA	**0.053**	**J**	0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Total NEtFOSAA	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Total PFOA	**0.077**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Br-Perfluorohexanesulfonic acid	**0.044**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Br-Perfluorooctanesulfonic acid	**6.5**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Total PFHxS	**0.43**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Total PFOS	**18**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
M2-6:2 FTS	*115*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
M2-8:2 FTS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 0945 WPS
Lab Sample ID: 240-168146-20

Date Collected: 06/08/22 09:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 80.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C3 HFPO-DA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C3 PFBS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C4 PFBA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C4 PFHpA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
d3-NMeFOSAA	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
d5-NEtFOSAA	*108*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C8 FOSA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C2 PFHxA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C5 PFNA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C2 PFDA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C2 PFUnA	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C2 PFDoA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
18O2 PFHxS	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*
13C4 PFOS	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.5**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**80.5**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1000 WPS

Date Collected: 06/08/22 10:00
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-21

Matrix: Solid
Percent Solids: 87.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
6:2 Fluorotelomer sulfonic acid	**0.14**	**J**	0.23	0.031	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
8:2 Fluorotelomer sulfonic acid	**1.6**		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
DONA	ND		0.23	0.045	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
HFPODA	ND		0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorobutanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorobutanoic acid	**0.063**	**J**	0.23	0.053	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorodecanesulfonic acid	**0.38**		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorodecanoic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluoroheptanesulfonic acid	ND		0.23	0.056	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluoroheptanoic acid	**0.068**	**J**	0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
L-Perfluorohexanesulfonic acid	**0.17**	**J I**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorohexanoic acid	**0.058**	**J**	0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorononanesulfonic acid	**0.48**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorononanoic acid	**0.048**	**J**	0.23	0.025	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorooctanesulfonamide	**0.096**	**J**	0.23	0.038	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
L-Perfluorooctanesulfonic acid	**3.2**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
L-Perfluorooctanoic acid	**0.087**	**J**	0.23	0.061	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluoropentanesulfonic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluoropentanoic acid	**0.050**	**J**	0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluoroundecanoic acid	**0.072**	**J**	0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
FHxSA	**0.19**	**J**	0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Total NEtFOSAA	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Total PFOA	**0.087**	**J**	0.23	0.061	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Br-Perfluorooctanoic acid	ND		0.23	0.061	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Br-Perfluorohexanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Br-Perfluorooctanesulfonic acid	**0.46**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Total PFHxS	**0.17**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Total PFOS	**3.7**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*118*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
M2-6:2 FTS	*111*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
M2-8:2 FTS	*105*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1000 WPS
Lab Sample ID: 240-168146-21

Date Collected: 06/08/22 10:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 87.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*48*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C3 HFPO-DA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C4 PFBA	*69*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C5 PFPeA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
d3-NMeFOSAA	*106*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
d5-NEtFOSAA	*113*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C8 FOSA	*105*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C2 PFHxA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C5 PFNA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C2 PFDA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C2 PFUnA	*106*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C2 PFDoA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
18O2 PFHxS	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*
13C4 PFOS	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**87.4**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1005 WPS

Date Collected: 06/08/22 10:05
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-22

Matrix: Solid
Percent Solids: 78.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.25	0.038	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
4:2 Fluorotelomer sulfonic acid	ND		0.25	0.063	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
6:2 Fluorotelomer sulfonic acid	**0.061**	**J**	0.25	0.033	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
8:2 Fluorotelomer sulfonic acid	**0.62**		0.25	0.043	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
9Cl-PF3ONS	ND		0.25	0.043	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
DONA	ND		0.25	0.048	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
HFPODA	ND		0.25	0.050	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.059	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.028	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorobutanesulfonic acid	ND		0.25	0.047	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorobutanoic acid	ND		0.25	0.057	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorodecanesulfonic acid	**0.071**	**J**	0.25	0.064	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorodecanoic acid	ND		0.25	0.059	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorododecanoic acid	ND		0.25	0.037	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluoroheptanesulfonic acid	ND		0.25	0.060	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluoroheptanoic acid	ND		0.25	0.047	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
L-Perfluorohexanesulfonic acid	**0.068**	**J**	0.25	0.036	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorohexanoic acid	ND		0.25	0.038	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorononanesulfonic acid	**0.38**		0.25	0.036	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorononanoic acid	**0.044**	**J**	0.25	0.027	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorooctanesulfonamide	**0.31**		0.25	0.041	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
L-Perfluorooctanesulfonic acid	**2.3**		0.25	0.053	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
L-Perfluorooctanoic acid	ND		0.25	0.065	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluoropentanesulfonic acid	ND		0.25	0.045	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluoropentanoic acid	ND		0.25	0.050	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorotetradecanoic acid	ND		0.25	0.045	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluorotridecanoic acid	ND		0.25	0.026	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluoroundecanoic acid	**0.12**	**J**	0.25	0.052	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.25	0.054	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
FBSA	ND		0.25	0.036	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
FHxSA	**0.16**	**J**	0.25	0.042	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Total NEtFOSAA	ND		0.25	0.059	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Total PFOA	ND		0.25	0.065	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.059	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Br-Perfluorooctanoic acid	ND		0.25	0.065	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.028	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Br-Perfluorohexanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Br-Perfluorooctanesulfonic acid	**0.31**		0.25	0.053	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Total PFHxS	**0.068**	**J**	0.25	0.036	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Total PFOS	**2.6**		0.25	0.053	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1
Total NMeFOSAA	ND		0.25	0.028	ng/g	☼	06/17/22 12:14	06/25/22 02:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
M2-6:2 FTS	*111*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
M2-8:2 FTS	*108*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1005 WPS
Lab Sample ID: 240-168146-22

Date Collected: 06/08/22 10:05
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*103*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C3 HFPO-DA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C3 PFBS	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C4 PFBA	*72*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C5 PFPeA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
d3-NMeFOSAA	*105*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
d5-NEtFOSAA	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C8 FOSA	*103*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C2 PFHxA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C5 PFNA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C2 PFDA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C2 PFUnA	*101*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C2 PFDoA	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
18O2 PFHxS	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*
13C4 PFOS	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 02:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.1**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**78.9**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1030 WPS

Date Collected: 06/08/22 10:30
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-23

Matrix: Solid
Percent Solids: 79.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.061	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.042	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
DONA	ND		0.24	0.046	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
HFPODA	ND		0.24	0.049	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorobutanesulfonic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorobutanoic acid	ND		0.24	0.055	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorodecanesulfonic acid	ND		0.24	0.062	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluoroheptanesulfonic acid	ND		0.24	0.058	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluoroheptanoic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
L-Perfluorohexanesulfonic acid	**0.056**	**J I**	0.24	0.034	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorohexanoic acid	ND		0.24	0.037	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorononanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorononanoic acid	**0.11**	**J**	0.24	0.026	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
L-Perfluorooctanesulfonic acid	**3.7**		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
L-Perfluorooctanoic acid	**0.12**	**J**	0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluoropentanesulfonic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluoropentanoic acid	ND		0.24	0.049	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.052	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
FBSA	ND		0.24	0.034	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
FHxSA	ND		0.24	0.040	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Total PFOA	**0.12**	**J**	0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.034	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Br-Perfluorooctanesulfonic acid	**0.15**	**J**	0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Total PFHxS	**0.056**	**J**	0.24	0.034	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Total PFOS	**3.8**		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1
Total NMeFOSAA	ND		0.24	0.027	ng/g	☼	06/17/22 12:14	06/25/22 03:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*119*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
M2-6:2 FTS	*114*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
M2-8:2 FTS	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1030 WPS
Lab Sample ID: 240-168146-23

Date Collected: 06/08/22 10:30
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 79.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C3 HFPO-DA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C3 PFBS	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C4 PFBA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C4 PFHpA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C5 PFPeA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
d3-NMeFOSAA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
d5-NEtFOSAA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C8 FOSA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C2 PFHxA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C4 PFOA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C5 PFNA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C2 PFDA	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C2 PFUnA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C2 PFDoA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
18O2 PFHxS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*
13C4 PFOS	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**79.2**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1040 WPS

Date Collected: 06/08/22 10:40
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-24

Matrix: Solid
Percent Solids: 85.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
4:2 Fluorotelomer sulfonic acid	ND		0.21	0.053	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.028	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
9Cl-PF3ONS	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
DONA	ND		0.21	0.041	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
HFPODA	ND		0.21	0.043	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorobutanesulfonic acid	ND		0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorobutanoic acid	ND		0.21	0.048	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorodecanesulfonic acid	ND		0.21	0.054	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorodecanoic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorododecanoic acid	ND		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluoroheptanesulfonic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluoroheptanoic acid	ND		0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
L-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorohexanoic acid	ND		0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorononanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorononanoic acid	ND		0.21	0.023	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorooctanesulfonamide	ND		0.21	0.034	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
L-Perfluorooctanesulfonic acid	**1.5**		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
L-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluoropentanesulfonic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluoropentanoic acid	ND		0.21	0.043	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorotetradecanoic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluoroundecanoic acid	ND		0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.21	0.046	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
FBSA	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
FHxSA	ND		0.21	0.035	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Total NEtFOSAA	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Total PFOA	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Br-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Br-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Br-Perfluorooctanesulfonic acid	**0.11**	**J**	0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Total PFHxS	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Total PFOS	**1.6**		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1
Total NMeFOSAA	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 03:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*111*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
M2-6:2 FTS	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
M2-8:2 FTS	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1040 WPS
Lab Sample ID: 240-168146-24

Date Collected: 06/08/22 10:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 85.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C3 HFPO-DA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C4 PFBA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C4 PFHpA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
d3-NMeFOSAA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C2 PFHxA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C4 PFOA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C5 PFNA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C2 PFDA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C2 PFUnA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C2 PFDoA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
18O2 PFHxS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*
13C4 PFOS	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**85.8**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1300 WPS

Date Collected: 06/08/22 13:00
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-25

Matrix: Solid
Percent Solids: 87.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.21	0.033	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
4:2 Fluorotelomer sulfonic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.029	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.037	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
9Cl-PF3ONS	ND		0.21	0.037	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
DONA	ND		0.21	0.042	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
HFPODA	ND		0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.025	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorobutanesulfonic acid	ND		0.21	0.041	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorobutanoic acid	**0.13**	**J**	0.21	0.049	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorodecanesulfonic acid	ND		0.21	0.056	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorodecanoic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorododecanoic acid	ND		0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluoroheptanesulfonic acid	ND		0.21	0.052	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluoroheptanoic acid	**0.083**	**J**	0.21	0.041	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
L-Perfluorohexanesulfonic acid	**0.43**		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorohexanoic acid	**0.15**	**J**	0.21	0.033	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorononanesulfonic acid	ND		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorononanoic acid	**0.15**	**J**	0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorooctanesulfonamide	ND		0.21	0.035	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
L-Perfluorooctanesulfonic acid	**7.3**		0.21	0.046	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
L-Perfluorooctanoic acid	**0.21**		0.21	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluoropentanesulfonic acid	ND		0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluoropentanoic acid	**0.15**	**J**	0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorotetradecanoic acid	ND		0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluoroundecanoic acid	ND		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.21	0.047	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
FBSA	ND		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
FHxSA	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Total NEtFOSAA	ND		0.21	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Total PFOA	**0.21**		0.21	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Br-Perfluorooctanoic acid	ND		0.21	0.057	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.025	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Br-Perfluorohexanesulfonic acid	**0.039**	**J**	0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Br-Perfluorooctanesulfonic acid	**0.81**		0.21	0.046	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Total PFHxS	**0.47**		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Total PFOS	**8.1**		0.21	0.046	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1
Total NMeFOSAA	ND		0.21	0.025	ng/g	☼	06/17/22 12:14	06/25/22 03:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
M2-6:2 FTS	*103*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1300 WPS
Lab Sample ID: 240-168146-25

Date Collected: 06/08/22 13:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 87.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*101*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C3 HFPO-DA	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C3 PFBS	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C4 PFBA	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C4 PFHpA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C5 PFPeA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
d3-NMeFOSAA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C8 FOSA	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C2 PFHxA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C4 PFOA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C5 PFNA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C2 PFDA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C2 PFUnA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C2 PFDoA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
18O2 PFHxS	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*
13C4 PFOS	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 03:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**87.0**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1305 WPS

Date Collected: 06/08/22 13:05
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-26

Matrix: Solid
Percent Solids: 79.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.031	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
DONA	ND		0.23	0.044	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
HFPODA	ND		0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorobutanesulfonic acid	**0.053**	**J**	0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorobutanoic acid	**0.080**	**J**	0.23	0.052	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorodecanesulfonic acid	ND		0.23	0.059	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorodecanoic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluoroheptanesulfonic acid	ND		0.23	0.056	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluoroheptanoic acid	**0.055**	**J**	0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
L-Perfluorohexanesulfonic acid	**0.88**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorohexanoic acid	**0.14**	**J**	0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorononanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorononanoic acid	ND		0.23	0.025	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorooctanesulfonamide	ND		0.23	0.038	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
L-Perfluorooctanesulfonic acid	**0.32**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
L-Perfluorooctanoic acid	**0.072**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluoropentanesulfonic acid	**0.062**	**J**	0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluoropentanoic acid	**0.077**	**J**	0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluoroundecanoic acid	ND		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
FHxSA	ND		0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Total NEtFOSAA	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Total PFOA	**0.072**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Br-Perfluorohexanesulfonic acid	**0.11**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Br-Perfluorooctanesulfonic acid	**0.43**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Total PFHxS	**0.99**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Total PFOS	**0.74**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 04:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 04:21*	*1*
M2-6:2 FTS	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 04:21*	*1*
M2-8:2 FTS	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 04:21*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1305 WPS
Lab Sample ID: 240-168146-26

Date Collected: 06/08/22 13:05
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 79.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	102		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C3 HFPO-DA	86		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C3 PFBS	88		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C4 PFBA	88		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C4 PFHpA	90		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C5 PFPeA	87		25 - 150	06/17/22 12:14	06/25/22 04:21	1
d3-NMeFOSAA	85		25 - 150	06/17/22 12:14	06/25/22 04:21	1
d5-NEtFOSAA	90		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C8 FOSA	88		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C2 PFHxA	86		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C4 PFOA	89		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C5 PFNA	92		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C2 PFDA	86		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C2 PFUnA	94		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C2 PFDoA	102		25 - 150	06/17/22 12:14	06/25/22 04:21	1
18O2 PFHxS	88		25 - 150	06/17/22 12:14	06/25/22 04:21	1
13C4 PFOS	85		25 - 150	06/17/22 12:14	06/25/22 04:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.8		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	79.2		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1325 WPS

Date Collected: 06/08/22 13:25
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-27

Matrix: Solid
Percent Solids: 86.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
4:2 Fluorotelomer sulfonic acid	ND		0.21	0.053	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.028	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
9Cl-PF3ONS	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
DONA	ND		0.21	0.041	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
HFPODA	ND		0.21	0.043	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorobutanesulfonic acid	ND		0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorobutanoic acid	**0.094**	**J**	0.21	0.048	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorodecanesulfonic acid	ND		0.21	0.054	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorodecanoic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorododecanoic acid	ND		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluoroheptanesulfonic acid	ND		0.21	0.051	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluoroheptanoic acid	**0.067**	**J**	0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
L-Perfluorohexanesulfonic acid	**0.15**	**J**	0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorohexanoic acid	**0.10**	**J**	0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorononanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorononanoic acid	**0.032**	**J**	0.21	0.023	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorooctanesulfonamide	ND		0.21	0.034	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
L-Perfluorooctanesulfonic acid	**1.7**		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
L-Perfluorooctanoic acid	**0.13**	**J**	0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluoropentanesulfonic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluoropentanoic acid	**0.14**	**J**	0.21	0.043	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorotetradecanoic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluoroundecanoic acid	ND		0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.21	0.046	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
FBSA	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
FHxSA	ND		0.21	0.035	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Total NEtFOSAA	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Total PFOA	**0.13**	**J**	0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Br-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Br-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Br-Perfluorooctanesulfonic acid	**0.21**		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Total PFHxS	**0.15**	**J**	0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Total PFOS	**1.9**		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1
Total NMeFOSAA	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 05:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
M2-6:2 FTS	*101*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
M2-8:2 FTS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1325 WPS
Lab Sample ID: 240-168146-27

Date Collected: 06/08/22 13:25
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 86.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C3 HFPO-DA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C3 PFBS	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C4 PFBA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C4 PFHpA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
d3-NMeFOSAA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
d5-NEtFOSAA	*103*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C2 PFHxA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C4 PFOA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C5 PFNA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C2 PFDA	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C2 PFUnA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C2 PFDoA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
18O2 PFHxS	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*
13C4 PFOS	*85*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**86.8**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1345 WPS

Date Collected: 06/08/22 13:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-28

Matrix: Solid
Percent Solids: 83.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.031	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
DONA	ND		0.23	0.044	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
HFPODA	ND		0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorobutanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorobutanoic acid	ND		0.23	0.052	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorodecanesulfonic acid	ND		0.23	0.059	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorodecanoic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluoroheptanesulfonic acid	ND		0.23	0.056	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluoroheptanoic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
L-Perfluorohexanesulfonic acid	**0.086**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorohexanoic acid	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorononanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorononanoic acid	ND		0.23	0.025	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorooctanesulfonamide	ND		0.23	0.038	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
L-Perfluorooctanesulfonic acid	**1.3**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
L-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluoropentanesulfonic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluoropentanoic acid	ND		0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluoroundecanoic acid	ND		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
FHxSA	ND		0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Total NEtFOSAA	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Total PFOA	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Br-Perfluorohexanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Br-Perfluorooctanesulfonic acid	**0.27**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Total PFHxS	**0.086**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Total PFOS	**1.5**		0.23	0.049	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 05:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:51*	*1*
M2-6:2 FTS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:51*	*1*
M2-8:2 FTS	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 05:51*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1345 WPS
Lab Sample ID: 240-168146-28

Date Collected: 06/08/22 13:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 83.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	109		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C3 HFPO-DA	92		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C3 PFBS	88		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C4 PFBA	88		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C4 PFHpA	91		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C5 PFPeA	91		25 - 150	06/17/22 12:14	06/25/22 05:51	1
d3-NMeFOSAA	87		25 - 150	06/17/22 12:14	06/25/22 05:51	1
d5-NEtFOSAA	97		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C8 FOSA	87		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C2 PFHxA	89		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C4 PFOA	90		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C5 PFNA	95		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C2 PFDA	92		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C2 PFUnA	100		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C2 PFDoA	96		25 - 150	06/17/22 12:14	06/25/22 05:51	1
18O2 PFHxS	89		25 - 150	06/17/22 12:14	06/25/22 05:51	1
13C4 PFOS	85		25 - 150	06/17/22 12:14	06/25/22 05:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	83.4		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1425 WPS

Date Collected: 06/08/22 14:25
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-29

Matrix: Solid
Percent Solids: 90.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
4:2 Fluorotelomer sulfonic acid	ND		0.21	0.052	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.028	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
9Cl-PF3ONS	ND		0.21	0.036	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
DONA	ND		0.21	0.040	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
HFPODA	ND		0.21	0.042	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.049	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorobutanesulfonic acid	ND		0.21	0.039	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorobutanoic acid	ND		0.21	0.047	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorodecanesulfonic acid	ND		0.21	0.054	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorodecanoic acid	ND		0.21	0.049	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorododecanoic acid	ND		0.21	0.031	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluoroheptanesulfonic acid	ND		0.21	0.050	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluoroheptanoic acid	ND		0.21	0.039	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
L-Perfluorohexanesulfonic acid	**0.13**	**J I**	0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorohexanoic acid	ND		0.21	0.032	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorononanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorononanoic acid	ND		0.21	0.023	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorooctanesulfonamide	ND		0.21	0.034	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
L-Perfluorooctanesulfonic acid	**2.7**		0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
L-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluoropentanesulfonic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluoropentanoic acid	ND		0.21	0.042	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorotetradecanoic acid	ND		0.21	0.038	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluoroundecanoic acid	ND		0.21	0.043	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.21	0.045	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
FBSA	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
FHxSA	ND		0.21	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Total NEtFOSAA	ND		0.21	0.049	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Total PFOA	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.21	0.049	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Br-Perfluorooctanoic acid	ND		0.21	0.055	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Br-Perfluorohexanesulfonic acid	ND		0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Br-Perfluorooctanesulfonic acid	**0.32**		0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Total PFHxS	**0.13**	**J**	0.21	0.030	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Total PFOS	**3.0**		0.21	0.044	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1
Total NMeFOSAA	ND		0.21	0.024	ng/g	☼	06/17/22 12:14	06/25/22 06:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1425 WPS
Lab Sample ID: 240-168146-29

Date Collected: 06/08/22 14:25
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 90.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C3 HFPO-DA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C3 PFBS	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C4 PFBA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C5 PFPeA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
d5-NEtFOSAA	*108*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C8 FOSA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C2 PFHxA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C4 PFOA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C5 PFNA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C2 PFDA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C2 PFUnA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C2 PFDoA	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
18O2 PFHxS	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*
13C4 PFOS	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**90.3**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1440 WPS

Date Collected: 06/08/22 14:40
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-30

Matrix: Solid
Percent Solids: 79.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.061	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.042	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
DONA	ND		0.24	0.047	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
HFPODA	ND		0.24	0.049	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorobutanesulfonic acid	**0.080**	**J**	0.24	0.045	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorobutanoic acid	ND		0.24	0.055	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorodecanesulfonic acid	ND		0.24	0.062	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluoroheptanesulfonic acid	**0.095**	**J**	0.24	0.058	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluoroheptanoic acid	**0.083**	**J**	0.24	0.045	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
L-Perfluorohexanesulfonic acid	**1.8**		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorohexanoic acid	**0.21**	**J**	0.24	0.037	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorononanesulfonic acid	ND		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorononanoic acid	ND		0.24	0.026	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
L-Perfluorooctanesulfonic acid	**3.2**		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
L-Perfluorooctanoic acid	**0.15**	**J**	0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluoropentanesulfonic acid	**0.15**	**J**	0.24	0.044	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluoropentanoic acid	**0.081**	**J**	0.24	0.049	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.053	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
FBSA	**0.12**	**J**	0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
FHxSA	**0.11**	**J**	0.24	0.041	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Total PFOA	**0.15**	**J**	0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Br-Perfluorohexanesulfonic acid	**0.30**		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Br-Perfluorooctanesulfonic acid	**2.0**		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Total PFHxS	**2.1**		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Total PFOS	**5.2**		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1
Total NMeFOSAA	ND		0.24	0.027	ng/g	☼	06/17/22 12:14	06/25/22 06:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1440 WPS
Lab Sample ID: 240-168146-30

Date Collected: 06/08/22 14:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 79.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*113*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C3 PFBS	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C4 PFBA	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C4 PFHpA	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C5 PFPeA	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
d3-NMeFOSAA	*92*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
d5-NEtFOSAA	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C8 FOSA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C2 PFHxA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C4 PFOA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C5 PFNA	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C2 PFDA	*89*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C2 PFUnA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C2 PFDoA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
18O2 PFHxS	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*
13C4 PFOS	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.3**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**79.7**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1550 WPS

Date Collected: 06/08/22 15:50
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-31

Matrix: Solid
Percent Solids: 85.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.057	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.030	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
9Cl-PF3ONS	ND		0.23	0.039	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
DONA	ND		0.23	0.044	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
HFPODA	ND		0.23	0.046	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorobutanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorobutanoic acid	ND		0.23	0.052	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorodecanesulfonic acid	ND		0.23	0.059	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorodecanoic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluoroheptanesulfonic acid	ND		0.23	0.055	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluoroheptanoic acid	ND		0.23	0.043	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
L-Perfluorohexanesulfonic acid	**0.94**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorohexanoic acid	**0.067**	**J**	0.23	0.035	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorononanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorononanoic acid	ND		0.23	0.025	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorooctanesulfonamide	ND		0.23	0.037	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
L-Perfluorooctanesulfonic acid	**1.5**		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
L-Perfluorooctanoic acid	**0.091**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluoropentanesulfonic acid	**0.070**	**J**	0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluoropentanoic acid	**0.062**	**J**	0.23	0.046	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluoroundecanoic acid	ND		0.23	0.047	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
FBSA	ND		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
FHxSA	ND		0.23	0.038	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Total NEtFOSAA	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Total PFOA	**0.091**	**J**	0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Br-Perfluorohexanesulfonic acid	**0.15**	**J**	0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Br-Perfluorooctanesulfonic acid	**0.68**		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Total PFHxS	**1.1**		0.23	0.033	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Total PFOS	**2.2**		0.23	0.048	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/17/22 12:14	06/25/22 06:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
M2-6:2 FTS	*105*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
M2-8:2 FTS	*99*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1550 WPS
Lab Sample ID: 240-168146-31

Date Collected: 06/08/22 15:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 85.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*106*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C3 HFPO-DA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C3 PFBS	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C4 PFBA	*47*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C4 PFHpA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C5 PFPeA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
d3-NMeFOSAA	*108*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
d5-NEtFOSAA	*119*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C8 FOSA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C2 PFHxA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C4 PFOA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C5 PFNA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C2 PFDA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C2 PFUnA	*106*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C2 PFDoA	*111*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
18O2 PFHxS	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*
13C4 PFOS	*83*		*25 - 150*	*06/17/22 12:14*	*06/25/22 06:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.5**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**85.5**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1600 WPS

Date Collected: 06/08/22 16:00
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-32

Matrix: Solid
Percent Solids: 78.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.061	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.042	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
DONA	ND		0.24	0.047	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
HFPODA	ND		0.24	0.049	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorobutanesulfonic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorobutanoic acid	ND		0.24	0.055	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorodecanesulfonic acid	ND		0.24	0.062	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluoroheptanesulfonic acid	ND		0.24	0.059	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluoroheptanoic acid	ND		0.24	0.045	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
L-Perfluorohexanesulfonic acid	ND		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorohexanoic acid	ND		0.24	0.037	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorononanesulfonic acid	ND		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorononanoic acid	ND		0.24	0.026	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
L-Perfluorooctanesulfonic acid	ND		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
L-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluoropentanesulfonic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluoropentanoic acid	ND		0.24	0.049	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.053	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
FBSA	ND		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
FHxSA	ND		0.24	0.041	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Total PFOA	ND		0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Br-Perfluorooctanesulfonic acid	ND		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Total PFHxS	ND		0.24	0.035	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Total PFOS	ND		0.24	0.051	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1
Total NMeFOSAA	ND		0.24	0.028	ng/g	☼	06/17/22 12:14	06/25/22 07:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
M2-8:2 FTS	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1600 WPS
Lab Sample ID: 240-168146-32

Date Collected: 06/08/22 16:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C3 HFPO-DA	*87*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C3 PFBS	*83*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C4 PFBA	*84*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C4 PFHpA	*85*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C5 PFPeA	*84*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
d3-NMeFOSAA	*84*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
d5-NEtFOSAA	*88*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C8 FOSA	*85*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C2 PFHxA	*86*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C4 PFOA	*85*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C5 PFNA	*86*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C2 PFDA	*84*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C2 PFUnA	*93*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C2 PFDoA	*91*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
18O2 PFHxS	*86*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*
13C4 PFOS	*83*		*25 - 150*	*06/17/22 12:14*	*06/25/22 07:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.1**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**78.9**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1745 WPS

Date Collected: 06/08/22 17:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-33

Matrix: Solid
Percent Solids: 87.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.035	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.058	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.031	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.040	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
DONA	ND		0.23	0.044	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
HFPODA	ND		0.23	0.046	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorobutanesulfonic acid	**0.053**	**J**	0.23	0.043	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorobutanoic acid	**0.13**	**J**	0.23	0.052	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorodecanesulfonic acid	ND		0.23	0.059	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorodecanoic acid	ND		0.23	0.054	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorododecanoic acid	ND		0.23	0.034	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluoroheptanesulfonic acid	**0.075**	**J**	0.23	0.055	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluoroheptanoic acid	**0.29**		0.23	0.043	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
L-Perfluorohexanesulfonic acid	**2.2**		0.23	0.033	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorohexanoic acid	**0.48**		0.23	0.035	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorononanesulfonic acid	ND		0.23	0.033	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorononanoic acid	**0.064**	**J**	0.23	0.025	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorooctanesulfonamide	ND		0.23	0.037	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
L-Perfluorooctanesulfonic acid	**3.2**		0.23	0.049	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
L-Perfluorooctanoic acid	**0.56**		0.23	0.060	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluoropentanesulfonic acid	**0.090**	**J**	0.23	0.042	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluoropentanoic acid	**0.36**		0.23	0.046	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorotetradecanoic acid	ND		0.23	0.042	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluoroundecanoic acid	ND		0.23	0.047	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.050	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
FBSA	ND		0.23	0.033	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
FHxSA	**0.045**	**J**	0.23	0.038	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Total NEtFOSAA	ND		0.23	0.054	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Total PFOA	**0.56**		0.23	0.060	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.054	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Br-Perfluorooctanoic acid	ND		0.23	0.060	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.026	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Br-Perfluorohexanesulfonic acid	**0.21**	**J**	0.23	0.033	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Br-Perfluorooctanesulfonic acid	**2.2**		0.23	0.049	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Total PFHxS	**2.4**		0.23	0.033	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Total PFOS	**5.4**		0.23	0.049	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1
Total NMeFOSAA	ND		0.23	0.026	ng/g	☼	06/21/22 19:11	06/25/22 15:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
M2-6:2 FTS	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
M2-8:2 FTS	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1745 WPS
Lab Sample ID: 240-168146-33

Date Collected: 06/08/22 17:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 87.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*106*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C3 HFPO-DA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C3 PFBS	*73*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C4 PFBA	*63*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C4 PFHpA	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C5 PFPeA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
d3-NMeFOSAA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
d5-NEtFOSAA	*98*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C8 FOSA	*89*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C2 PFHxA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C4 PFOA	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C5 PFNA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C2 PFDA	*91*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C2 PFUnA	*101*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C2 PFDoA	*93*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
18O2 PFHxS	*75*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*
13C4 PFOS	*75*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**87.1**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1755 WPS

Date Collected: 06/08/22 17:55
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-34

Matrix: Solid
Percent Solids: 69.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.27	0.041	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
4:2 Fluorotelomer sulfonic acid	ND		0.27	0.068	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
6:2 Fluorotelomer sulfonic acid	ND		0.27	0.036	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
8:2 Fluorotelomer sulfonic acid	ND		0.27	0.047	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
9Cl-PF3ONS	ND		0.27	0.047	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
DONA	ND		0.27	0.052	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
HFPODA	ND		0.27	0.055	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.064	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorobutanesulfonic acid	**0.058**	**J**	0.27	0.051	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorobutanoic acid	ND		0.27	0.061	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorodecanesulfonic acid	ND		0.27	0.069	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorodecanoic acid	ND		0.27	0.064	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorododecanoic acid	ND		0.27	0.040	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluoroheptanesulfonic acid	ND		0.27	0.065	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluoroheptanoic acid	**0.059**	**J**	0.27	0.051	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
L-Perfluorohexanesulfonic acid	**0.92**		0.27	0.039	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorohexanoic acid	**0.16**	**J**	0.27	0.041	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorononanesulfonic acid	ND		0.27	0.039	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorononanoic acid	ND		0.27	0.029	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorooctanesulfonamide	ND		0.27	0.044	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
L-Perfluorooctanesulfonic acid	**0.70**		0.27	0.057	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
L-Perfluorooctanoic acid	**0.096**	**J**	0.27	0.071	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluoropentanesulfonic acid	**0.068**	**J**	0.27	0.049	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluoropentanoic acid	**0.091**	**J**	0.27	0.055	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorotetradecanoic acid	ND		0.27	0.049	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluorotridecanoic acid	ND		0.27	0.028	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluoroundecanoic acid	ND		0.27	0.056	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.27	0.059	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
FBSA	ND		0.27	0.039	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
FHxSA	ND		0.27	0.045	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Total NEtFOSAA	ND		0.27	0.064	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Total PFOA	**0.096**	**J**	0.27	0.071	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.064	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Br-Perfluorooctanoic acid	ND		0.27	0.071	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Br-Perfluorohexanesulfonic acid	**0.13**	**J**	0.27	0.039	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Br-Perfluorooctanesulfonic acid	**0.46**		0.27	0.057	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Total PFHxS	**1.0**		0.27	0.039	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Total PFOS	**1.2**		0.27	0.057	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1
Total NMeFOSAA	ND		0.27	0.031	ng/g	☼	06/21/22 19:11	06/25/22 15:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
M2-6:2 FTS	*80*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1755 WPS
Lab Sample ID: 240-168146-34

Date Collected: 06/08/22 17:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 69.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*105*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C3 HFPO-DA	*81*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C3 PFBS	*71*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C4 PFBA	*68*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C4 PFHpA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C5 PFPeA	*79*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
d3-NMeFOSAA	*81*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
d5-NEtFOSAA	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C8 FOSA	*89*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C2 PFHxA	*83*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C4 PFOA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C5 PFNA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C2 PFDA	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C2 PFUnA	*103*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C2 PFDoA	*93*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
18O2 PFHxS	*74*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*
13C4 PFOS	*76*		*25 - 150*	*06/21/22 19:11*	*06/25/22 15:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.9**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**69.1**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1645 WPS

Date Collected: 06/08/22 16:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-35

Matrix: Solid
Percent Solids: 81.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.038	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.062	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
6:2 Fluorotelomer sulfonic acid	**0.092**	**J**	0.24	0.033	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
8:2 Fluorotelomer sulfonic acid	**0.28**		0.24	0.043	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
9Cl-PF3ONS	ND		0.24	0.043	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
DONA	ND		0.24	0.048	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
HFPODA	ND		0.24	0.050	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.059	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorobutanesulfonic acid	ND		0.24	0.046	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorobutanoic acid	**0.17**	**J**	0.24	0.056	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorodecanesulfonic acid	**0.093**	**J**	0.24	0.064	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorodecanoic acid	**0.11**	**J**	0.24	0.059	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorododecanoic acid	ND		0.24	0.037	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluoroheptanesulfonic acid	**0.18**	**J**	0.24	0.060	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluoroheptanoic acid	**0.18**	**J**	0.24	0.046	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
L-Perfluorohexanesulfonic acid	**1.9**		0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorohexanoic acid	**0.20**	**J**	0.24	0.038	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorononanesulfonic acid	**0.35**		0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorononanoic acid	**0.38**		0.24	0.027	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorooctanesulfonamide	**0.62**		0.24	0.040	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
L-Perfluorooctanesulfonic acid	**160**	**E**	0.24	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
L-Perfluorooctanoic acid	**0.24**		0.24	0.065	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluoropentanesulfonic acid	**0.079**	**J**	0.24	0.045	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluoropentanoic acid	**0.34**		0.24	0.050	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorotetradecanoic acid	ND		0.24	0.045	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluorotridecanoic acid	ND		0.24	0.026	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluoroundecanoic acid	ND		0.24	0.051	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.054	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
FBSA	**0.089**	**J**	0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
FHxSA	**4.1**		0.24	0.042	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Total NEtFOSAA	ND		0.24	0.059	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Total PFOA	**0.24**		0.24	0.065	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.059	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Br-Perfluorooctanoic acid	ND		0.24	0.065	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Br-Perfluorohexanesulfonic acid	**0.16**	**J**	0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Br-Perfluorooctanesulfonic acid	**13**		0.24	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Total PFHxS	**2.1**		0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Total PFOS	**170**		0.24	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1
Total NMeFOSAA	ND		0.24	0.028	ng/g	☼	06/21/22 19:11	06/25/22 16:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
M2-8:2 FTS	*101*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1645 WPS
Lab Sample ID: 240-168146-35

Date Collected: 06/08/22 16:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 81.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*104*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C3 HFPO-DA	*81*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C3 PFBS	*78*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C4 PFBA	*59*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C4 PFHpA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C5 PFPeA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
d3-NMeFOSAA	*98*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
d5-NEtFOSAA	*106*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C2 PFHxA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C4 PFOA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C5 PFNA	*90*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C2 PFDA	*91*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C2 PFUnA	*104*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C2 PFDoA	*97*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
18O2 PFHxS	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*
13C4 PFOS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.0**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**81.0**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1655 WPS

Date Collected: 06/08/22 16:55
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-36

Matrix: Solid
Percent Solids: 80.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.25	0.038	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
4:2 Fluorotelomer sulfonic acid	ND		0.25	0.063	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
6:2 Fluorotelomer sulfonic acid	**0.12**	**J**	0.25	0.034	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
8:2 Fluorotelomer sulfonic acid	**0.18**	**J**	0.25	0.043	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
9Cl-PF3ONS	ND		0.25	0.043	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
DONA	ND		0.25	0.048	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
HFPODA	ND		0.25	0.051	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorobutanesulfonic acid	ND		0.25	0.047	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorobutanoic acid	ND		0.25	0.057	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorodecanesulfonic acid	ND		0.25	0.065	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorodecanoic acid	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorododecanoic acid	ND		0.25	0.037	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluoroheptanesulfonic acid	ND		0.25	0.061	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluoroheptanoic acid	ND		0.25	0.047	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
L-Perfluorohexanesulfonic acid	**0.13**	**J**	0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorohexanoic acid	**0.038**	**J**	0.25	0.038	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorononanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorononanoic acid	ND		0.25	0.027	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorooctanesulfonamide	ND		0.25	0.041	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
L-Perfluorooctanesulfonic acid	**5.2**		0.25	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
L-Perfluorooctanoic acid	ND		0.25	0.066	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluoropentanesulfonic acid	ND		0.25	0.046	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluoropentanoic acid	**0.077**	**J**	0.25	0.051	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorotetradecanoic acid	ND		0.25	0.046	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluorotridecanoic acid	ND		0.25	0.026	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluoroundecanoic acid	ND		0.25	0.052	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.25	0.055	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
FBSA	ND		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
FHxSA	**0.076**	**J**	0.25	0.042	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Total NEtFOSAA	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Total PFOA	ND		0.25	0.066	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Br-Perfluorooctanoic acid	ND		0.25	0.066	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Br-Perfluorohexanesulfonic acid	ND		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Br-Perfluorooctanesulfonic acid	**2.0**		0.25	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Total PFHxS	**0.13**	**J**	0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Total PFOS	**7.1**		0.25	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1
Total NMeFOSAA	ND		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 16:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
M2-6:2 FTS	*95*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1655 WPS
Lab Sample ID: 240-168146-36

Date Collected: 06/08/22 16:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 80.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*109*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C3 HFPO-DA	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C3 PFBS	*78*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C4 PFBA	*67*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C4 PFHpA	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C5 PFPeA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
d3-NMeFOSAA	*96*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
d5-NEtFOSAA	*105*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C2 PFHxA	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C4 PFOA	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C5 PFNA	*91*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C2 PFDA	*89*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C2 PFUnA	*102*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C2 PFDoA	*100*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
18O2 PFHxS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*
13C4 PFOS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.0**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**80.0**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1830 WPS

Date Collected: 06/08/22 18:30
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-37

Matrix: Solid
Percent Solids: 82.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.059	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.031	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.041	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
9Cl-PF3ONS	ND		0.23	0.041	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
DONA	ND		0.23	0.045	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
HFPODA	ND		0.23	0.048	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.056	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.027	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorobutanesulfonic acid	ND		0.23	0.044	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorobutanoic acid	**0.096**	**J**	0.23	0.053	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorodecanesulfonic acid	ND		0.23	0.060	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorodecanoic acid	ND		0.23	0.056	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorododecanoic acid	ND		0.23	0.035	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluoroheptanesulfonic acid	**0.096**	**J**	0.23	0.057	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluoroheptanoic acid	**0.087**	**J**	0.23	0.044	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
L-Perfluorohexanesulfonic acid	**1.3**		0.23	0.034	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorohexanoic acid	**0.10**	**J**	0.23	0.036	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorononanesulfonic acid	**0.076**	**J**	0.23	0.034	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorononanoic acid	**0.19**	**J**	0.23	0.025	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorooctanesulfonamide	ND		0.23	0.038	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
L-Perfluorooctanesulfonic acid	**13**		0.23	0.050	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
L-Perfluorooctanoic acid	**0.31**		0.23	0.061	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluoropentanesulfonic acid	ND		0.23	0.043	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluoropentanoic acid	**0.12**	**J**	0.23	0.048	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorotetradecanoic acid	ND		0.23	0.043	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluoroundecanoic acid	ND		0.23	0.049	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.051	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
FBSA	ND		0.23	0.034	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
FHxSA	**0.061**	**J**	0.23	0.039	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Total NEtFOSAA	ND		0.23	0.056	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Total PFOA	**0.31**		0.23	0.061	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.056	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Br-Perfluorooctanoic acid	ND		0.23	0.061	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.027	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Br-Perfluorohexanesulfonic acid	**0.094**	**J**	0.23	0.034	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Br-Perfluorooctanesulfonic acid	**3.7**		0.23	0.050	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Total PFHxS	**1.4**		0.23	0.034	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Total PFOS	**17**		0.23	0.050	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1
Total NMeFOSAA	ND		0.23	0.027	ng/g	☼	06/21/22 19:11	06/25/22 16:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
M2-6:2 FTS	*103*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1830 WPS
Lab Sample ID: 240-168146-37

Date Collected: 06/08/22 18:30
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 82.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*106*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C3 HFPO-DA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C3 PFBS	*81*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C4 PFBA	*64*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C4 PFHpA	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C5 PFPeA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
d3-NMeFOSAA	*94*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
d5-NEtFOSAA	*103*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C8 FOSA	*93*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C2 PFHxA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C4 PFOA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C5 PFNA	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C2 PFDA	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C2 PFUnA	*98*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C2 PFDoA	*97*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
18O2 PFHxS	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*
13C4 PFOS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 16:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.3**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**82.7**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1845 WPS

Date Collected: 06/08/22 18:45
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-38

Matrix: Solid
Percent Solids: 72.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.26	0.040	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
4:2 Fluorotelomer sulfonic acid	ND		0.26	0.066	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
6:2 Fluorotelomer sulfonic acid	ND		0.26	0.035	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
8:2 Fluorotelomer sulfonic acid	ND		0.26	0.045	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
9Cl-PF3ONS	ND		0.26	0.045	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
DONA	ND		0.26	0.051	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
HFPODA	ND		0.26	0.053	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.062	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.030	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorobutanesulfonic acid	ND		0.26	0.049	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorobutanoic acid	**0.16**	**J**	0.26	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorodecanesulfonic acid	ND		0.26	0.067	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorodecanoic acid	ND		0.26	0.062	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorododecanoic acid	ND		0.26	0.039	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluoroheptanesulfonic acid	ND		0.26	0.063	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluoroheptanoic acid	**0.15**	**J**	0.26	0.049	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
L-Perfluorohexanesulfonic acid	**2.2**		0.26	0.038	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorohexanoic acid	**0.48**		0.26	0.040	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorononanesulfonic acid	ND		0.26	0.038	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorononanoic acid	ND		0.26	0.028	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorooctanesulfonamide	ND		0.26	0.043	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
L-Perfluorooctanesulfonic acid	**0.90**		0.26	0.056	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
L-Perfluorooctanoic acid	**0.26**		0.26	0.069	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluoropentanesulfonic acid	**0.11**	**J**	0.26	0.048	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluoropentanoic acid	**0.44**		0.26	0.053	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorotetradecanoic acid	ND		0.26	0.048	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluorotridecanoic acid	ND		0.26	0.027	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluoroundecanoic acid	ND		0.26	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.26	0.057	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
FBSA	ND		0.26	0.038	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
FHxSA	ND		0.26	0.044	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Total NEtFOSAA	ND		0.26	0.062	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Total PFOA	**0.26**		0.26	0.069	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.062	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Br-Perfluorooctanoic acid	ND		0.26	0.069	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.030	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Br-Perfluorohexanesulfonic acid	**0.23**	**J**	0.26	0.038	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Br-Perfluorooctanesulfonic acid	**0.68**		0.26	0.056	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Total PFHxS	**2.4**		0.26	0.038	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Total PFOS	**1.6**		0.26	0.056	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1
Total NMeFOSAA	ND		0.26	0.030	ng/g	☼	06/21/22 19:11	06/25/22 17:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
M2-6:2 FTS	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
M2-8:2 FTS	*81*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1845 WPS
Lab Sample ID: 240-168146-38

Date Collected: 06/08/22 18:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 72.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*111*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C3 HFPO-DA	*83*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C3 PFBS	*72*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C4 PFBA	*71*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C4 PFHpA	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C5 PFPeA	*80*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
d3-NMeFOSAA	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
d5-NEtFOSAA	*100*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C8 FOSA	*90*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C2 PFHxA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C4 PFOA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C5 PFNA	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C2 PFDA	*90*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C2 PFUnA	*100*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C2 PFDoA	*95*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
18O2 PFHxS	*78*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*
13C4 PFOS	*76*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.8**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**72.2**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1900 WPS

Date Collected: 06/08/22 19:00
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-39

Matrix: Solid
Percent Solids: 75.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.25	0.039	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
4:2 Fluorotelomer sulfonic acid	ND		0.25	0.064	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
6:2 Fluorotelomer sulfonic acid	**4.4**		0.25	0.034	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
8:2 Fluorotelomer sulfonic acid	**15**		0.25	0.044	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
9Cl-PF3ONS	ND		0.25	0.044	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
DONA	ND		0.25	0.049	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
HFPODA	ND		0.25	0.052	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	**0.59**		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
L-N-methylperfluorooctanesulfonamidoacetic acid	**0.32**		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorobutanesulfonic acid	**0.81**		0.25	0.048	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorobutanoic acid	**0.58**		0.25	0.058	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorodecanesulfonic acid	**3.1**		0.25	0.065	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorodecanoic acid	**1.9**		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorododecanoic acid	**0.15**	**J**	0.25	0.038	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluoroheptanesulfonic acid	**3.5**		0.25	0.062	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluoroheptanoic acid	**1.2**		0.25	0.048	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
L-Perfluorohexanesulfonic acid	**25**	**E**	0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorohexanoic acid	**1.8**		0.25	0.039	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorononanesulfonic acid	**60**	**E**	0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorononanoic acid	**1.6**		0.25	0.028	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorooctanesulfonamide	**14**		0.25	0.041	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
L-Perfluorooctanesulfonic acid	**390**	**E**	0.25	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
L-Perfluorooctanoic acid	**2.9**		0.25	0.067	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluoropentanesulfonic acid	**2.2**		0.25	0.047	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluoropentanoic acid	**0.98**		0.25	0.052	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorotetradecanoic acid	ND		0.25	0.047	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluorotridecanoic acid	**0.035**	**J**	0.25	0.026	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluoroundecanoic acid	**1.6**		0.25	0.053	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.25	0.055	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
FBSA	**1.5**		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
FHxSA	**52**	**E**	0.25	0.043	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Total NEtFOSAA	**0.83**		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Total PFOA	**3.3**		0.25	0.067	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	**0.24**	**J**	0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Br-Perfluorooctanoic acid	**0.39**		0.25	0.067	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	**0.072**	**J**	0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Br-Perfluorohexanesulfonic acid	**5.0**		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Br-Perfluorooctanesulfonic acid	**140**	**E**	0.25	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Total PFHxS	**30**		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Total PFOS	**530**		0.25	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1
Total NMeFOSAA	**0.39**		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 17:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
M2-6:2 FTS	*100*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1900 WPS
Lab Sample ID: 240-168146-39

Date Collected: 06/08/22 19:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 75.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*107*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C3 HFPO-DA	*85*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C3 PFBS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C4 PFBA	*55*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C4 PFHpA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C5 PFPeA	*83*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
d3-NMeFOSAA	*91*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C8 FOSA	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C2 PFHxA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C4 PFOA	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C5 PFNA	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C2 PFDA	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C2 PFUnA	*104*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C2 PFDoA	*98*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
18O2 PFHxS	*83*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*
13C4 PFOS	*78*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.8**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**75.2**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1910 WPS

Date Collected: 06/08/22 19:10
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-40

Matrix: Solid
Percent Solids: 79.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.25	0.039	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
4:2 Fluorotelomer sulfonic acid	ND		0.25	0.063	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
6:2 Fluorotelomer sulfonic acid	**0.57**		0.25	0.034	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
8:2 Fluorotelomer sulfonic acid	**2.6**		0.25	0.044	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
9Cl-PF3ONS	ND		0.25	0.044	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
DONA	ND		0.25	0.049	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
HFPODA	ND		0.25	0.051	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorobutanesulfonic acid	ND		0.25	0.047	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorobutanoic acid	**0.11**	**J**	0.25	0.057	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorodecanesulfonic acid	**0.63**		0.25	0.065	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorodecanoic acid	**0.065**	**J**	0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorododecanoic acid	ND		0.25	0.037	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluoroheptanesulfonic acid	**0.11**	**J**	0.25	0.061	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluoroheptanoic acid	**0.11**	**J**	0.25	0.047	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
L-Perfluorohexanesulfonic acid	**1.7**		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorohexanoic acid	**0.23**	**J**	0.25	0.039	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorononanesulfonic acid	**0.86**		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorononanoic acid	**0.24**	**J**	0.25	0.027	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorooctanesulfonamide	**0.77**		0.25	0.041	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
L-Perfluorooctanesulfonic acid	**50**	**E**	0.25	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
L-Perfluorooctanoic acid	**0.18**	**J**	0.25	0.066	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluoropentanesulfonic acid	**0.083**	**J**	0.25	0.046	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluoropentanoic acid	**0.14**	**J**	0.25	0.051	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorotetradecanoic acid	ND		0.25	0.046	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluorotridecanoic acid	ND		0.25	0.026	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluoroundecanoic acid	**0.062**	**J**	0.25	0.052	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.25	0.055	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
FBSA	**0.12**	**J**	0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
FHxSA	**1.8**		0.25	0.042	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Total NEtFOSAA	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Total PFOA	**0.18**	**J**	0.25	0.066	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.25	0.060	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Br-Perfluorooctanoic acid	ND		0.25	0.066	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Br-Perfluorohexanesulfonic acid	**0.21**	**J**	0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Br-Perfluorooctanesulfonic acid	**10**		0.25	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Total PFHxS	**1.9**		0.25	0.036	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Total PFOS	**60**		0.25	0.054	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1
Total NMeFOSAA	ND		0.25	0.029	ng/g	☼	06/21/22 19:11	06/25/22 17:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
M2-6:2 FTS	*101*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
M2-8:2 FTS	*94*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1910 WPS
Lab Sample ID: 240-168146-40

Date Collected: 06/08/22 19:10
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 79.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*112*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C3 PFBS	*79*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C4 PFBA	*68*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C4 PFHpA	*93*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C5 PFPeA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
d5-NEtFOSAA	*105*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C8 FOSA	*97*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C2 PFHxA	*87*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C4 PFOA	*90*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C5 PFNA	*91*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C2 PFDA	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C2 PFUnA	*106*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C2 PFDoA	*103*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
18O2 PFHxS	*88*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*
13C4 PFOS	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 17:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.4**		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	**79.6**		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220608 1655 WPS-FD

Date Collected: 06/08/22 16:55
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-41

Matrix: Solid
Percent Solids: 81.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND	F1	0.24	0.037	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.061	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
6:2 Fluorotelomer sulfonic acid	**0.25**		0.24	0.032	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
8:2 Fluorotelomer sulfonic acid	**0.20**	**J**	0.24	0.042	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
DONA	ND		0.24	0.046	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
HFPODA	ND		0.24	0.049	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorobutanesulfonic acid	ND		0.24	0.045	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorobutanoic acid	ND		0.24	0.055	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorodecanesulfonic acid	ND		0.24	0.062	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluoroheptanesulfonic acid	ND		0.24	0.058	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluoroheptanoic acid	ND		0.24	0.045	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
L-Perfluorohexanesulfonic acid	**0.13**	**J**	0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorohexanoic acid	**0.043**	**J**	0.24	0.037	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorononanesulfonic acid	ND		0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorononanoic acid	**0.029**	**J**	0.24	0.026	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
L-Perfluorooctanesulfonic acid	**5.7**	**F1**	0.24	0.051	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
L-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluoropentanesulfonic acid	ND		0.24	0.044	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluoropentanoic acid	**0.083**	**J**	0.24	0.049	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.052	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
FBSA	ND		0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
FHxSA	**0.086**	**J**	0.24	0.040	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Total NEtFOSAA	ND		0.24	0.057	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Total PFOA	ND		0.24	0.063	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.027	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Br-Perfluorooctanesulfonic acid	**1.9**		0.24	0.051	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Total PFHxS	**0.13**	**J**	0.24	0.035	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Total PFOS	**7.7**	**F1**	0.24	0.051	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1
Total NMeFOSAA	ND		0.24	0.027	ng/g	☼	06/21/22 19:11	06/25/22 19:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*25 - 150*	*06/21/22 19:11*	*06/25/22 19:03*	*1*
M2-6:2 FTS	*89*		*25 - 150*	*06/21/22 19:11*	*06/25/22 19:03*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 19:03*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1655 WPS-FD
Lab Sample ID: 240-168146-41

Date Collected: 06/08/22 16:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 81.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	108		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C3 HFPO-DA	87		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C3 PFBS	81		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C4 PFBA	67		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C4 PFHpA	89		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C5 PFPeA	84		25 - 150	06/21/22 19:11	06/25/22 19:03	1
d3-NMeFOSAA	95		25 - 150	06/21/22 19:11	06/25/22 19:03	1
d5-NEtFOSAA	104		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C8 FOSA	95		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C2 PFHxA	90		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C4 PFOA	89		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C5 PFNA	89		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C2 PFDA	90		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C2 PFUnA	106		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C2 PFDoA	97		25 - 150	06/21/22 19:11	06/25/22 19:03	1
18O2 PFHxS	85		25 - 150	06/21/22 19:11	06/25/22 19:03	1
13C4 PFOS	83		25 - 150	06/21/22 19:11	06/25/22 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.7		0.1	0.1	%			06/15/22 11:06	1
Percent Solids	81.3		0.1	0.1	%			06/15/22 11:06	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: FB 220608 0840 WPS

Lab Sample ID: 240-168146-42

Date Collected: 06/08/22 08:40
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.5	2.1	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluoropentanoic acid	ND		1.8	0.44	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorohexanoic acid	ND		1.8	0.52	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluoroheptanoic acid	ND		1.8	0.22	ng/L		06/22/22 12:54	06/25/22 23:57	1
L-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluoroundecanoic acid	ND		1.8	0.98	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorododecanoic acid	ND		1.8	0.49	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorotetradecanoic acid	ND		1.8	0.65	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluoropentanesulfonic acid	ND		1.8	0.27	ng/L		06/22/22 12:54	06/25/22 23:57	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		06/22/22 12:54	06/25/22 23:57	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluorooctanesulfonamide	ND		1.8	0.88	ng/L		06/22/22 12:54	06/25/22 23:57	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/22/22 12:54	06/25/22 23:57	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.2	ng/L		06/22/22 12:54	06/25/22 23:57	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.21	ng/L		06/22/22 12:54	06/25/22 23:57	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.2	ng/L		06/22/22 12:54	06/25/22 23:57	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.41	ng/L		06/22/22 12:54	06/25/22 23:57	1
DONA	ND		1.8	0.36	ng/L		06/22/22 12:54	06/25/22 23:57	1
HFPODA	ND		3.6	1.3	ng/L		06/22/22 12:54	06/25/22 23:57	1
9Cl-PF3ONS	ND		1.8	0.21	ng/L		06/22/22 12:54	06/25/22 23:57	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/22/22 12:54	06/25/22 23:57	1
FHxSA	ND		1.8	0.20	ng/L		06/22/22 12:54	06/25/22 23:57	1
FBSA	ND		1.8	0.31	ng/L		06/22/22 12:54	06/25/22 23:57	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.40	ng/L		06/22/22 12:54	06/25/22 23:57	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/22/22 12:54	06/25/22 23:57	1
Total PFOA	ND		1.8	0.76	ng/L		06/22/22 12:54	06/25/22 23:57	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.2	ng/L		06/22/22 12:54	06/25/22 23:57	1
Br-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		06/22/22 12:54	06/25/22 23:57	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/22/22 12:54	06/25/22 23:57	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		06/22/22 12:54	06/25/22 23:57	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 12:54	06/25/22 23:57	1
Total PFHxS	ND		1.8	0.51	ng/L		06/22/22 12:54	06/25/22 23:57	1
Total PFOS	ND		1.8	0.48	ng/L		06/22/22 12:54	06/25/22 23:57	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/22/22 12:54	06/25/22 23:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*06/22/22 12:54*	*06/25/22 23:57*	*1*
13C5 PFPeA	*97*		*25 - 150*	*06/22/22 12:54*	*06/25/22 23:57*	*1*
13C2 PFHxA	*96*		*25 - 150*	*06/22/22 12:54*	*06/25/22 23:57*	*1*

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB 220608 0840 WPS
Lab Sample ID: 240-168146-42

Date Collected: 06/08/22 08:40
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	95		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C4 PFOA	98		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C5 PFNA	95		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C2 PFDA	96		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C2 PFUnA	105		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C2 PFDoA	101		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C2 PFTeDA	110		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C3 PFBS	96		25 - 150	06/22/22 12:54	06/25/22 23:57	1
18O2 PFHxS	97		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C4 PFOS	93		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C8 FOSA	97		25 - 150	06/22/22 12:54	06/25/22 23:57	1
d3-NMeFOSAA	96		25 - 150	06/22/22 12:54	06/25/22 23:57	1
d5-NEtFOSAA	107		25 - 150	06/22/22 12:54	06/25/22 23:57	1
M2-4:2 FTS	113		25 - 150	06/22/22 12:54	06/25/22 23:57	1
M2-6:2 FTS	118		25 - 150	06/22/22 12:54	06/25/22 23:57	1
M2-8:2 FTS	106		25 - 150	06/22/22 12:54	06/25/22 23:57	1
13C3 HFPO-DA	90		25 - 150	06/22/22 12:54	06/25/22 23:57	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: EB 220608 1930 WPS

Date Collected: 06/08/22 19:30
Date Received: 06/11/22 10:00

Lab Sample ID: 240-168146-43

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.3	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluoropentanoic acid	ND		1.9	0.46	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorohexanoic acid	ND		1.9	0.55	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluoroheptanoic acid	ND		1.9	0.23	ng/L		06/22/22 12:54	06/26/22 00:20	1
L-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorononanoic acid	ND		1.9	0.25	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorotetradecanoic acid	ND		1.9	0.69	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorobutanesulfonic acid	ND		1.9	0.19	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluoropentanesulfonic acid	ND		1.9	0.28	ng/L		06/22/22 12:54	06/26/22 00:20	1
L-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/22/22 12:54	06/26/22 00:20	1
L-Perfluorooctanesulfonic acid	ND		1.9	0.51	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluorooctanesulfonamide	**1.1**	**J**	1.9	0.92	ng/L		06/22/22 12:54	06/26/22 00:20	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/22/22 12:54	06/26/22 00:20	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/22/22 12:54	06/26/22 00:20	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.23	ng/L		06/22/22 12:54	06/26/22 00:20	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.3	ng/L		06/22/22 12:54	06/26/22 00:20	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/22/22 12:54	06/26/22 00:20	1
DONA	ND		1.9	0.38	ng/L		06/22/22 12:54	06/26/22 00:20	1
HFPODA	ND		3.8	1.4	ng/L		06/22/22 12:54	06/26/22 00:20	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/22/22 12:54	06/26/22 00:20	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/22/22 12:54	06/26/22 00:20	1
FHxSA	ND		1.9	0.21	ng/L		06/22/22 12:54	06/26/22 00:20	1
FBSA	ND		1.9	0.33	ng/L		06/22/22 12:54	06/26/22 00:20	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/22/22 12:54	06/26/22 00:20	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/22/22 12:54	06/26/22 00:20	1
Total PFOA	ND		1.9	0.80	ng/L		06/22/22 12:54	06/26/22 00:20	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/22/22 12:54	06/26/22 00:20	1
Br-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/22/22 12:54	06/26/22 00:20	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/22/22 12:54	06/26/22 00:20	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/22/22 12:54	06/26/22 00:20	1
Br-Perfluorooctanesulfonic acid	ND		1.9	0.51	ng/L		06/22/22 12:54	06/26/22 00:20	1
Total PFHxS	ND		1.9	0.54	ng/L		06/22/22 12:54	06/26/22 00:20	1
Total PFOS	ND		1.9	0.51	ng/L		06/22/22 12:54	06/26/22 00:20	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/22/22 12:54	06/26/22 00:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*25 - 150*	*06/22/22 12:54*	*06/26/22 00:20*	*1*
13C5 PFPeA	*100*		*25 - 150*	*06/22/22 12:54*	*06/26/22 00:20*	*1*
13C2 PFHxA	*98*		*25 - 150*	*06/22/22 12:54*	*06/26/22 00:20*	*1*

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB 220608 1930 WPS
Lab Sample ID: 240-168146-43

Date Collected: 06/08/22 19:30
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	100		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C4 PFOA	99		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C5 PFNA	102		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C2 PFDA	97		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C2 PFUnA	107		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C2 PFDoA	95		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C2 PFTeDA	97		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C3 PFBS	102		25 - 150	06/22/22 12:54	06/26/22 00:20	1
18O2 PFHxS	101		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C4 PFOS	97		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C8 FOSA	84		25 - 150	06/22/22 12:54	06/26/22 00:20	1
d3-NMeFOSAA	96		25 - 150	06/22/22 12:54	06/26/22 00:20	1
d5-NEtFOSAA	103		25 - 150	06/22/22 12:54	06/26/22 00:20	1
M2-4:2 FTS	126		25 - 150	06/22/22 12:54	06/26/22 00:20	1
M2-6:2 FTS	119		25 - 150	06/22/22 12:54	06/26/22 00:20	1
M2-8:2 FTS	111		25 - 150	06/22/22 12:54	06/26/22 00:20	1
13C3 HFPO-DA	95		25 - 150	06/22/22 12:54	06/26/22 00:20	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: FB 220610 1025 WPS

Lab Sample ID: 240-168146-44

Date Collected: 06/10/22 10:25
Date Received: 06/11/22 10:00

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.3	2.1	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluoropentanoic acid	ND		1.7	0.42	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorohexanoic acid	ND		1.7	0.50	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluoroheptanoic acid	ND		1.7	0.21	ng/L		06/22/22 13:01	06/26/22 14:18	1
L-Perfluorooctanoic acid	ND		1.7	0.73	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorononanoic acid	ND		1.7	0.23	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorodecanoic acid	ND		1.7	0.27	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluoroundecanoic acid	ND		1.7	0.94	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorododecanoic acid	ND		1.7	0.47	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorotridecanoic acid	ND		1.7	1.1	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorotetradecanoic acid	ND		1.7	0.62	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorobutanesulfonic acid	ND		1.7	0.17	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluoropentanesulfonic acid	ND		1.7	0.26	ng/L		06/22/22 13:01	06/26/22 14:18	1
L-Perfluorohexanesulfonic acid	ND		1.7	0.49	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluoroheptanesulfonic acid	ND		1.7	0.16	ng/L		06/22/22 13:01	06/26/22 14:18	1
L-Perfluorooctanesulfonic acid	ND		1.7	0.46	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorononanesulfonic acid	ND		1.7	0.32	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorodecanesulfonic acid	ND		1.7	0.27	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluorooctanesulfonamide	ND		1.7	0.84	ng/L		06/22/22 13:01	06/26/22 14:18	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.3	1.0	ng/L		06/22/22 13:01	06/26/22 14:18	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.3	1.1	ng/L		06/22/22 13:01	06/26/22 14:18	1
4:2 Fluorotelomer sulfonic acid	ND		1.7	0.21	ng/L		06/22/22 13:01	06/26/22 14:18	1
6:2 Fluorotelomer sulfonic acid	ND		4.3	2.1	ng/L		06/22/22 13:01	06/26/22 14:18	1
8:2 Fluorotelomer sulfonic acid	ND		1.7	0.39	ng/L		06/22/22 13:01	06/26/22 14:18	1
DONA	ND		1.7	0.34	ng/L		06/22/22 13:01	06/26/22 14:18	1
HFPODA	ND		3.4	1.3	ng/L		06/22/22 13:01	06/26/22 14:18	1
9Cl-PF3ONS	ND		1.7	0.21	ng/L		06/22/22 13:01	06/26/22 14:18	1
11Cl-PF3OUdS	ND	*+	1.7	0.27	ng/L		06/22/22 13:01	06/26/22 14:18	1
FHxSA	ND		1.7	0.19	ng/L		06/22/22 13:01	06/26/22 14:18	1
FBSA	ND		1.7	0.30	ng/L		06/22/22 13:01	06/26/22 14:18	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.7	0.38	ng/L		06/22/22 13:01	06/26/22 14:18	1
Total NEtFOSAA	ND		4.3	1.1	ng/L		06/22/22 13:01	06/26/22 14:18	1
Total PFOA	ND		1.7	0.73	ng/L		06/22/22 13:01	06/26/22 14:18	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.3	1.1	ng/L		06/22/22 13:01	06/26/22 14:18	1
Br-Perfluorooctanoic acid	ND		1.7	0.73	ng/L		06/22/22 13:01	06/26/22 14:18	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.3	1.0	ng/L		06/22/22 13:01	06/26/22 14:18	1
Br-Perfluorohexanesulfonic acid	ND		1.7	0.49	ng/L		06/22/22 13:01	06/26/22 14:18	1
Br-Perfluorooctanesulfonic acid	ND		1.7	0.46	ng/L		06/22/22 13:01	06/26/22 14:18	1
Total PFHxS	ND		1.7	0.49	ng/L		06/22/22 13:01	06/26/22 14:18	1
Total PFOS	ND		1.7	0.46	ng/L		06/22/22 13:01	06/26/22 14:18	1
Total NMeFOSAA	ND		4.3	1.0	ng/L		06/22/22 13:01	06/26/22 14:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*25 - 150*	*06/22/22 13:01*	*06/26/22 14:18*	*1*
13C5 PFPeA	*98*		*25 - 150*	*06/22/22 13:01*	*06/26/22 14:18*	*1*
13C2 PFHxA	*96*		*25 - 150*	*06/22/22 13:01*	*06/26/22 14:18*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB 220610 1025 WPS
Lab Sample ID: 240-168146-44

Date Collected: 06/10/22 10:25
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	99		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C4 PFOA	101		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C5 PFNA	100		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C2 PFDA	99		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C2 PFUnA	108		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C2 PFDoA	101		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C2 PFTeDA	115		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C3 PFBS	98		25 - 150	06/22/22 13:01	06/26/22 14:18	1
18O2 PFHxS	102		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C4 PFOS	96		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C8 FOSA	105		25 - 150	06/22/22 13:01	06/26/22 14:18	1
d3-NMeFOSAA	103		25 - 150	06/22/22 13:01	06/26/22 14:18	1
d5-NEtFOSAA	107		25 - 150	06/22/22 13:01	06/26/22 14:18	1
M2-4:2 FTS	99		25 - 150	06/22/22 13:01	06/26/22 14:18	1
M2-6:2 FTS	105		25 - 150	06/22/22 13:01	06/26/22 14:18	1
M2-8:2 FTS	103		25 - 150	06/22/22 13:01	06/26/22 14:18	1
13C3 HFPO-DA	95		25 - 150	06/22/22 13:01	06/26/22 14:18	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: DW 220610 1030 WPS

Lab Sample ID: 240-168146-45

Date Collected: 06/10/22 10:30
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.4	2.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluoropentanoic acid	ND		1.8	0.43	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorohexanoic acid	ND		1.8	0.51	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluoroheptanoic acid	ND		1.8	0.22	ng/L		06/22/22 13:01	06/26/22 14:40	1
L-Perfluorooctanoic acid	ND		1.8	0.75	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorodecanoic acid	ND		1.8	0.27	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluoroundecanoic acid	ND		1.8	0.97	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorododecanoic acid	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorotridecanoic acid	ND		1.8	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorotetradecanoic acid	ND		1.8	0.64	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluoropentanesulfonic acid	ND		1.8	0.26	ng/L		06/22/22 13:01	06/26/22 14:40	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.50	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		06/22/22 13:01	06/26/22 14:40	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorodecanesulfonic acid	ND		1.8	0.28	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluorooctanesulfonamide	ND		1.8	0.86	ng/L		06/22/22 13:01	06/26/22 14:40	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.4	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.4	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.21	ng/L		06/22/22 13:01	06/26/22 14:40	1
6:2 Fluorotelomer sulfonic acid	ND		4.4	2.2	ng/L		06/22/22 13:01	06/26/22 14:40	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.40	ng/L		06/22/22 13:01	06/26/22 14:40	1
DONA	ND		1.8	0.35	ng/L		06/22/22 13:01	06/26/22 14:40	1
HFPODA	ND		3.5	1.3	ng/L		06/22/22 13:01	06/26/22 14:40	1
9Cl-PF3ONS	ND		1.8	0.21	ng/L		06/22/22 13:01	06/26/22 14:40	1
11Cl-PF3OUdS	ND	*+	1.8	0.28	ng/L		06/22/22 13:01	06/26/22 14:40	1
FHxSA	ND		1.8	0.19	ng/L		06/22/22 13:01	06/26/22 14:40	1
FBSA	ND		1.8	0.31	ng/L		06/22/22 13:01	06/26/22 14:40	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.40	ng/L		06/22/22 13:01	06/26/22 14:40	1
Total NEtFOSAA	ND		4.4	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
Total PFOA	ND		1.8	0.75	ng/L		06/22/22 13:01	06/26/22 14:40	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.4	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
Br-Perfluorooctanoic acid	ND		1.8	0.75	ng/L		06/22/22 13:01	06/26/22 14:40	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.4	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.50	ng/L		06/22/22 13:01	06/26/22 14:40	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 14:40	1
Total PFHxS	ND		1.8	0.50	ng/L		06/22/22 13:01	06/26/22 14:40	1
Total PFOS	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 14:40	1
Total NMeFOSAA	ND		4.4	1.1	ng/L		06/22/22 13:01	06/26/22 14:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83*		*25 - 150*	*06/22/22 13:01*	*06/26/22 14:40*	*1*
13C5 PFPeA	*97*		*25 - 150*	*06/22/22 13:01*	*06/26/22 14:40*	*1*
13C2 PFHxA	*92*		*25 - 150*	*06/22/22 13:01*	*06/26/22 14:40*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: DW 220610 1030 WPS
Lab Sample ID: 240-168146-45

Date Collected: 06/10/22 10:30
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	96		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C4 PFOA	95		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C5 PFNA	95		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C2 PFDA	92		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C2 PFUnA	97		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C2 PFDoA	86		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C2 PFTeDA	103		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C3 PFBS	94		25 - 150	06/22/22 13:01	06/26/22 14:40	1
18O2 PFHxS	96		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C4 PFOS	89		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C8 FOSA	85		25 - 150	06/22/22 13:01	06/26/22 14:40	1
d3-NMeFOSAA	95		25 - 150	06/22/22 13:01	06/26/22 14:40	1
d5-NEtFOSAA	104		25 - 150	06/22/22 13:01	06/26/22 14:40	1
M2-4:2 FTS	25		25 - 150	06/22/22 13:01	06/26/22 14:40	1
M2-6:2 FTS	37		25 - 150	06/22/22 13:01	06/26/22 14:40	1
M2-8:2 FTS	94		25 - 150	06/22/22 13:01	06/26/22 14:40	1
13C3 HFPO-DA	94		25 - 150	06/22/22 13:01	06/26/22 14:40	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: DW 220610 1030 WPS-FD

Lab Sample ID: 240-168146-46

Date Collected: 06/10/22 10:30
Date Received: 06/11/22 10:00

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.5	2.1	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluoropentanoic acid	ND		1.8	0.44	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorohexanoic acid	ND		1.8	0.52	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluoroheptanoic acid	ND		1.8	0.22	ng/L		06/22/22 13:01	06/26/22 15:48	1
L-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluoroundecanoic acid	ND		1.8	0.98	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorododecanoic acid	ND		1.8	0.49	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorotetradecanoic acid	ND		1.8	0.65	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluoropentanesulfonic acid	ND		1.8	0.27	ng/L		06/22/22 13:01	06/26/22 15:48	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		06/22/22 13:01	06/26/22 15:48	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluorooctanesulfonamide	ND		1.8	0.87	ng/L		06/22/22 13:01	06/26/22 15:48	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/22/22 13:01	06/26/22 15:48	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/22/22 13:01	06/26/22 15:48	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.21	ng/L		06/22/22 13:01	06/26/22 15:48	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.2	ng/L		06/22/22 13:01	06/26/22 15:48	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.41	ng/L		06/22/22 13:01	06/26/22 15:48	1
DONA	ND		1.8	0.36	ng/L		06/22/22 13:01	06/26/22 15:48	1
HFPODA	ND		3.6	1.3	ng/L		06/22/22 13:01	06/26/22 15:48	1
9Cl-PF3ONS	ND		1.8	0.21	ng/L		06/22/22 13:01	06/26/22 15:48	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/22/22 13:01	06/26/22 15:48	1
FHxSA	ND		1.8	0.20	ng/L		06/22/22 13:01	06/26/22 15:48	1
FBSA	ND		1.8	0.31	ng/L		06/22/22 13:01	06/26/22 15:48	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.40	ng/L		06/22/22 13:01	06/26/22 15:48	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/22/22 13:01	06/26/22 15:48	1
Total PFOA	ND		1.8	0.76	ng/L		06/22/22 13:01	06/26/22 15:48	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/22/22 13:01	06/26/22 15:48	1
Br-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		06/22/22 13:01	06/26/22 15:48	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/22/22 13:01	06/26/22 15:48	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		06/22/22 13:01	06/26/22 15:48	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 15:48	1
Total PFHxS	ND		1.8	0.51	ng/L		06/22/22 13:01	06/26/22 15:48	1
Total PFOS	ND		1.8	0.48	ng/L		06/22/22 13:01	06/26/22 15:48	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/22/22 13:01	06/26/22 15:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*06/22/22 13:01*	*06/26/22 15:48*	*1*
13C5 PFPeA	*102*		*25 - 150*	*06/22/22 13:01*	*06/26/22 15:48*	*1*
13C2 PFHxA	*96*		*25 - 150*	*06/22/22 13:01*	*06/26/22 15:48*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: DW 220610 1030 WPS-FD
Lab Sample ID: 240-168146-46

Date Collected: 06/10/22 10:30
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	98		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C4 PFOA	97		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C5 PFNA	96		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C2 PFDA	95		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C2 PFUnA	102		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C2 PFDoA	91		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C2 PFTeDA	103		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C3 PFBS	101		25 - 150	06/22/22 13:01	06/26/22 15:48	1
18O2 PFHxS	101		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C4 PFOS	94		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C8 FOSA	86		25 - 150	06/22/22 13:01	06/26/22 15:48	1
d3-NMeFOSAA	99		25 - 150	06/22/22 13:01	06/26/22 15:48	1
d5-NEtFOSAA	109		25 - 150	06/22/22 13:01	06/26/22 15:48	1
M2-4:2 FTS	31		25 - 150	06/22/22 13:01	06/26/22 15:48	1
M2-6:2 FTS	38		25 - 150	06/22/22 13:01	06/26/22 15:48	1
M2-8:2 FTS	94		25 - 150	06/22/22 13:01	06/26/22 15:48	1
13C3 HFPO-DA	93		25 - 150	06/22/22 13:01	06/26/22 15:48	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: TB- 220610 1035 WPS

Lab Sample ID: 240-168146-47

Date Collected: 06/10/22 10:35
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.5	2.2	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluoropentanoic acid	ND		1.8	0.44	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorohexanoic acid	ND		1.8	0.52	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluoroheptanoic acid	ND		1.8	0.22	ng/L		06/22/22 12:54	06/26/22 00:42	1
L-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluoroundecanoic acid	ND		1.8	0.99	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorododecanoic acid	ND		1.8	0.49	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorotetradecanoic acid	ND		1.8	0.66	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluoropentanesulfonic acid	ND		1.8	0.27	ng/L		06/22/22 12:54	06/26/22 00:42	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		06/22/22 12:54	06/26/22 00:42	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluorooctanesulfonamide	ND		1.8	0.88	ng/L		06/22/22 12:54	06/26/22 00:42	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/22/22 12:54	06/26/22 00:42	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/22/22 12:54	06/26/22 00:42	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/22/22 12:54	06/26/22 00:42	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.2	ng/L		06/22/22 12:54	06/26/22 00:42	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.41	ng/L		06/22/22 12:54	06/26/22 00:42	1
DONA	ND		1.8	0.36	ng/L		06/22/22 12:54	06/26/22 00:42	1
HFPODA	ND		3.6	1.3	ng/L		06/22/22 12:54	06/26/22 00:42	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/22/22 12:54	06/26/22 00:42	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/22/22 12:54	06/26/22 00:42	1
FHxSA	ND		1.8	0.20	ng/L		06/22/22 12:54	06/26/22 00:42	1
FBSA	ND		1.8	0.31	ng/L		06/22/22 12:54	06/26/22 00:42	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.40	ng/L		06/22/22 12:54	06/26/22 00:42	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/22/22 12:54	06/26/22 00:42	1
Total PFOA	ND		1.8	0.76	ng/L		06/22/22 12:54	06/26/22 00:42	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/22/22 12:54	06/26/22 00:42	1
Br-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		06/22/22 12:54	06/26/22 00:42	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/22/22 12:54	06/26/22 00:42	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		06/22/22 12:54	06/26/22 00:42	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		06/22/22 12:54	06/26/22 00:42	1
Total PFHxS	ND		1.8	0.51	ng/L		06/22/22 12:54	06/26/22 00:42	1
Total PFOS	ND		1.8	0.48	ng/L		06/22/22 12:54	06/26/22 00:42	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/22/22 12:54	06/26/22 00:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*06/22/22 12:54*	*06/26/22 00:42*	*1*
13C5 PFPeA	*89*		*25 - 150*	*06/22/22 12:54*	*06/26/22 00:42*	*1*
13C2 PFHxA	*92*		*25 - 150*	*06/22/22 12:54*	*06/26/22 00:42*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: TB- 220610 1035 WPS
Lab Sample ID: 240-168146-47

Date Collected: 06/10/22 10:35
Matrix: Water
Date Received: 06/11/22 10:00

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	93		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C4 PFOA	93		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C5 PFNA	94		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C2 PFDA	86		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C2 PFUnA	96		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C2 PFDoA	90		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C2 PFTeDA	102		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C3 PFBS	94		25 - 150	06/22/22 12:54	06/26/22 00:42	1
18O2 PFHxS	96		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C4 PFOS	84		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C8 FOSA	83		25 - 150	06/22/22 12:54	06/26/22 00:42	1
d3-NMeFOSAA	90		25 - 150	06/22/22 12:54	06/26/22 00:42	1
d5-NEtFOSAA	98		25 - 150	06/22/22 12:54	06/26/22 00:42	1
M2-4:2 FTS	101		25 - 150	06/22/22 12:54	06/26/22 00:42	1
M2-6:2 FTS	106		25 - 150	06/22/22 12:54	06/26/22 00:42	1
M2-8:2 FTS	101		25 - 150	06/22/22 12:54	06/26/22 00:42	1
13C3 HFPO-DA	91		25 - 150	06/22/22 12:54	06/26/22 00:42	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Lab Sample ID: MB 320-596260/1-A
Matrix: Solid
Analysis Batch: 598427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		0.20	0.046	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorobutanesulfonic acid	ND		0.20	0.038	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorodecanoic acid	ND		0.20	0.048	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorododecanoic acid	ND		0.20	0.030	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluoroheptanesulfonic acid	ND		0.20	0.049	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluoroheptanoic acid	ND		0.20	0.038	ng/g		06/17/22 12:10	06/26/22 04:07	1
L-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorodecanesulfonic acid	ND		0.20	0.052	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorohexanoic acid	ND		0.20	0.031	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorononanesulfonic acid	ND		0.20	0.029	ng/g		06/17/22 12:10	06/26/22 04:07	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorononanoic acid	ND		0.20	0.022	ng/g		06/17/22 12:10	06/26/22 04:07	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.20	0.048	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorooctanesulfonamide	ND		0.20	0.033	ng/g		06/17/22 12:10	06/26/22 04:07	1
4:2 Fluorotelomer sulfonic acid	ND		0.20	0.051	ng/g		06/17/22 12:10	06/26/22 04:07	1
L-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		06/17/22 12:10	06/26/22 04:07	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.027	ng/g		06/17/22 12:10	06/26/22 04:07	1
L-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		06/17/22 12:10	06/26/22 04:07	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.035	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluoropentanesulfonic acid	ND		0.20	0.037	ng/g		06/17/22 12:10	06/26/22 04:07	1
DONA	ND		0.20	0.039	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluoropentanoic acid	ND		0.20	0.041	ng/g		06/17/22 12:10	06/26/22 04:07	1
HFPODA	ND		0.20	0.041	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorotetradecanoic acid	ND		0.20	0.037	ng/g		06/17/22 12:10	06/26/22 04:07	1
9Cl-PF3ONS	ND		0.20	0.035	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g		06/17/22 12:10	06/26/22 04:07	1
11Cl-PF3OUdS	ND		0.20	0.031	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluoroundecanoic acid	ND		0.20	0.042	ng/g		06/17/22 12:10	06/26/22 04:07	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.20	0.044	ng/g		06/17/22 12:10	06/26/22 04:07	1
FBSA	ND		0.20	0.029	ng/g		06/17/22 12:10	06/26/22 04:07	1
FHxSA	ND		0.20	0.034	ng/g		06/17/22 12:10	06/26/22 04:07	1
Total NEtFOSAA	ND		0.20	0.048	ng/g		06/17/22 12:10	06/26/22 04:07	1
Total PFOA	ND		0.20	0.053	ng/g		06/17/22 12:10	06/26/22 04:07	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.20	0.048	ng/g		06/17/22 12:10	06/26/22 04:07	1
Br-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		06/17/22 12:10	06/26/22 04:07	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		06/17/22 12:10	06/26/22 04:07	1
Br-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		06/17/22 12:10	06/26/22 04:07	1
Br-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		06/17/22 12:10	06/26/22 04:07	1
Total PFHxS	ND		0.20	0.029	ng/g		06/17/22 12:10	06/26/22 04:07	1
Total PFOS	ND		0.20	0.043	ng/g		06/17/22 12:10	06/26/22 04:07	1
Total NMeFOSAA	ND		0.20	0.023	ng/g		06/17/22 12:10	06/26/22 04:07	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:07*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/17/22 12:10*	*06/26/22 04:07*	*1*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-596260/1-A
Matrix: Solid
Analysis Batch: 598427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596260

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	96		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C2 PFTeDA	107		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C2 PFHxA	93		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C3 PFBS	102		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C4 PFOA	93		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C5 PFNA	99		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C2 PFDA	94		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C8 FOSA	103		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C2 PFUnA	105		25 - 150	06/17/22 12:10	06/26/22 04:07	1
d3-NMeFOSAA	106		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C2 PFDoA	101		25 - 150	06/17/22 12:10	06/26/22 04:07	1
d5-NEtFOSAA	105		25 - 150	06/17/22 12:10	06/26/22 04:07	1
18O2 PFHxS	100		25 - 150	06/17/22 12:10	06/26/22 04:07	1
M2-4:2 FTS	111		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C4 PFOS	97		25 - 150	06/17/22 12:10	06/26/22 04:07	1
M2-6:2 FTS	117		25 - 150	06/17/22 12:10	06/26/22 04:07	1
M2-8:2 FTS	108		25 - 150	06/17/22 12:10	06/26/22 04:07	1
13C3 HFPO-DA	94		25 - 150	06/17/22 12:10	06/26/22 04:07	1

Lab Sample ID: LCS 320-596260/2-A
Matrix: Solid
Analysis Batch: 598427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	2.00	2.11		ng/g		105	76 - 136
Perfluorobutanesulfonic acid	1.78	1.75		ng/g		99	69 - 129
Perfluorodecanoic acid	2.00	2.08		ng/g		104	72 - 132
Perfluorododecanoic acid	2.00	2.00		ng/g		100	71 - 131
Perfluoroheptanesulfonic acid	1.91	2.04		ng/g		107	76 - 136
Perfluoroheptanoic acid	2.00	2.09		ng/g		104	71 - 131
Perfluorodecanesulfonic acid	1.93	2.10		ng/g		109	71 - 131
Perfluorohexanoic acid	2.00	1.93		ng/g		97	71 - 131
Perfluorononanesulfonic acid	1.92	1.96		ng/g		102	72 - 132
Perfluorononanoic acid	2.00	2.11		ng/g		105	73 - 133
Perfluorooctanesulfonamide	2.00	2.12		ng/g		106	77 - 137
4:2 Fluorotelomer sulfonic acid	1.88	1.96		ng/g		105	68 - 143
6:2 Fluorotelomer sulfonic acid	1.90	1.84		ng/g		97	73 - 139
8:2 Fluorotelomer sulfonic acid	1.92	1.98		ng/g		103	75 - 135
Perfluoropentanesulfonic acid	1.88	1.88		ng/g		100	66 - 126
DONA	1.89	1.94		ng/g		103	79 - 139
Perfluoropentanoic acid	2.00	2.00		ng/g		100	69 - 129
HFPODA	2.00	1.97		ng/g		98	53 - 158
Perfluorotetradecanoic acid	2.00	1.99		ng/g		99	67 - 127
9Cl-PF3ONS	1.87	2.00		ng/g		107	74 - 134
Perfluorotridecanoic acid	2.00	2.09		ng/g		104	71 - 131
11Cl-PF3OUdS	1.89	2.49		ng/g		132	66 - 136
Perfluoroundecanoic acid	2.00	2.11		ng/g		106	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	1.85	1.95		ng/g		106	50 - 150

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-596260/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598427
Prep Batch: 596260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
FBSA	2.00	2.04		ng/g		102	70 - 130
FHxSA	2.00	2.04		ng/g		102	70 - 130
Total NEtFOSAA	2.00	1.98		ng/g		99	72 - 132
Total PFOA	2.00	2.04		ng/g		102	72 - 132
Total PFHxS	1.82	1.85		ng/g		101	62 - 122
Total PFOS	1.86	1.88		ng/g		101	68 - 141
Total NMeFOSAA	2.00	1.92		ng/g		96	72 - 132

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*91*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C5 PFPeA	*101*		*25 - 150*
13C2 PFTeDA	*124*		*25 - 150*
13C2 PFHxA	*99*		*25 - 150*
13C3 PFBS	*108*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*99*		*25 - 150*
13C2 PFDA	*100*		*25 - 150*
13C8 FOSA	*110*		*25 - 150*
13C2 PFUnA	*108*		*25 - 150*
d3-NMeFOSAA	*115*		*25 - 150*
13C2 PFDoA	*116*		*25 - 150*
d5-NEtFOSAA	*127*		*25 - 150*
18O2 PFHxS	*103*		*25 - 150*
M2-4:2 FTS	*121*		*25 - 150*
13C4 PFOS	*103*		*25 - 150*
M2-6:2 FTS	*123*		*25 - 150*
M2-8:2 FTS	*117*		*25 - 150*
13C3 HFPO-DA	*101*		*25 - 150*

Lab Sample ID: 240-168146-14 MS
Client Sample ID: SO 220607 1810 WPS-FD
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598427
Prep Batch: 596260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	0.075	J	2.11	2.36		ng/g	☼	108	76 - 136
Perfluorobutanesulfonic acid	ND		1.87	1.86		ng/g	☼	99	69 - 129
Perfluorodecanoic acid	ND		2.11	2.12		ng/g	☼	101	72 - 132
Perfluorododecanoic acid	ND		2.11	2.08		ng/g	☼	99	71 - 131
Perfluoroheptanesulfonic acid	ND		2.01	2.07		ng/g	☼	103	76 - 136
Perfluoroheptanoic acid	ND		2.11	2.10		ng/g	☼	100	71 - 131
Perfluorodecanesulfonic acid	ND		2.03	2.01		ng/g	☼	99	71 - 131
Perfluorohexanoic acid	0.033	J	2.11	2.03		ng/g	☼	95	71 - 131
Perfluorononanesulfonic acid	ND		2.03	2.03		ng/g	☼	100	72 - 132
Perfluorononanoic acid	0.10	J	2.11	2.24		ng/g	☼	102	73 - 133
Perfluorooctanesulfonamide	ND		2.11	2.14		ng/g	☼	102	77 - 137
4:2 Fluorotelomer sulfonic acid	ND		1.98	1.93		ng/g	☼	98	68 - 143
6:2 Fluorotelomer sulfonic acid	ND		2.01	1.94		ng/g	☼	97	73 - 139
8:2 Fluorotelomer sulfonic acid	ND		2.02	1.88		ng/g	☼	93	75 - 135

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-14 MS
Client Sample ID: SO 220607 1810 WPS-FD
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598427
Prep Batch: 596260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid	ND		1.98	1.99		ng/g	☼	101	66 - 126
DONA	ND		1.99	1.96		ng/g	☼	99	79 - 139
Perfluoropentanoic acid	0.055	J	2.11	2.17		ng/g	☼	100	69 - 129
HFPODA	ND		2.11	2.18		ng/g	☼	103	53 - 158
Perfluorotetradecanoic acid	ND		2.11	1.98		ng/g	☼	94	67 - 127
9Cl-PF3ONS	ND		1.97	2.07		ng/g	☼	105	74 - 134
Perfluorotridecanoic acid	ND		2.11	2.20		ng/g	☼	105	71 - 131
11Cl-PF3OUdS	ND		1.99	2.45		ng/g	☼	123	66 - 136
Perfluoroundecanoic acid	ND		2.11	1.98		ng/g	☼	94	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.95	1.93		ng/g	☼	99	50 - 150
FBSA	ND		2.11	2.07		ng/g	☼	98	50 - 150
FHxSA	ND		2.11	2.08		ng/g	☼	99	50 - 150
Total NEtFOSAA	ND		2.11	2.00		ng/g	☼	95	72 - 132
Total PFOA	0.12	J	2.11	2.10		ng/g	☼	94	72 - 132
Total PFHxS	ND		1.92	1.95		ng/g	☼	101	62 - 122
Total PFOS	8.1		1.96	10.5	4	ng/g	☼	120	68 - 141
Total NMeFOSAA	ND		2.11	2.01		ng/g	☼	95	72 - 132

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*28*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C5 PFPeA	*93*		*25 - 150*
13C2 PFTeDA	*109*		*25 - 150*
13C2 PFHxA	*97*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
13C4 PFOA	*101*		*25 - 150*
13C5 PFNA	*96*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C8 FOSA	*108*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
d3-NMeFOSAA	*110*		*25 - 150*
13C2 PFDoA	*98*		*25 - 150*
d5-NEtFOSAA	*116*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
M2-4:2 FTS	*126*		*25 - 150*
13C4 PFOS	*99*		*25 - 150*
M2-6:2 FTS	*118*		*25 - 150*
M2-8:2 FTS	*112*		*25 - 150*
13C3 HFPO-DA	*93*		*25 - 150*

Lab Sample ID: 240-168146-14 MSD
Client Sample ID: SO 220607 1810 WPS-FD
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598427
Prep Batch: 596260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	0.075	J	2.14	2.26		ng/g	☼	102	76 - 136	5	30
Perfluorobutanesulfonic acid	ND		1.90	1.97		ng/g	☼	104	69 - 129	6	30
Perfluorodecanoic acid	ND		2.14	2.26		ng/g	☼	106	72 - 132	6	30

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-14 MSD
Client Sample ID: SO 220607 1810 WPS-FD
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598427
Prep Batch: 596260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanoic acid	ND		2.14	2.08		ng/g	☼	97	71 - 131	0	30
Perfluoroheptanesulfonic acid	ND		2.04	2.35		ng/g	☼	115	76 - 136	12	30
Perfluoroheptanoic acid	ND		2.14	2.18		ng/g	☼	102	71 - 131	4	30
Perfluorodecanesulfonic acid	ND		2.06	1.87		ng/g	☼	91	71 - 131	7	30
Perfluorohexanoic acid	0.033	J	2.14	2.00		ng/g	☼	92	71 - 131	1	30
Perfluorononanesulfonic acid	ND		2.05	1.95		ng/g	☼	95	72 - 132	4	30
Perfluorononanoic acid	0.10	J	2.14	2.19		ng/g	☼	98	73 - 133	2	30
Perfluorooctanesulfonamide	ND		2.14	2.19		ng/g	☼	103	77 - 137	2	30
4:2 Fluorotelomer sulfonic acid	ND		2.00	2.05		ng/g	☼	102	68 - 143	6	30
6:2 Fluorotelomer sulfonic acid	ND		2.03	2.02		ng/g	☼	99	73 - 139	4	30
8:2 Fluorotelomer sulfonic acid	ND		2.05	2.04		ng/g	☼	99	75 - 135	8	30
Perfluoropentanesulfonic acid	ND		2.00	2.06		ng/g	☼	103	66 - 126	4	30
DONA	ND		2.02	2.18		ng/g	☼	108	79 - 139	10	30
Perfluoropentanoic acid	0.055	J	2.14	2.21		ng/g	☼	101	69 - 129	2	30
HFPODA	ND		2.14	2.15		ng/g	☼	101	53 - 158	1	30
Perfluorotetradecanoic acid	ND		2.14	2.02		ng/g	☼	95	67 - 127	2	30
9Cl-PF3ONS	ND		1.99	2.12		ng/g	☼	106	74 - 134	2	30
Perfluorotridecanoic acid	ND		2.14	2.10		ng/g	☼	98	71 - 131	5	30
11Cl-PF3OUdS	ND		2.02	2.36		ng/g	☼	117	66 - 136	4	30
Perfluoroundecanoic acid	ND		2.14	2.23		ng/g	☼	104	66 - 126	12	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.97	2.05		ng/g	☼	104	50 - 150	6	30
FBSA	ND		2.14	2.44		ng/g	☼	114	50 - 150	16	30
FHxSA	ND		2.14	2.37		ng/g	☼	111	50 - 150	13	30
Total NEtFOSAA	ND		2.14	2.16		ng/g	☼	101	72 - 132	7	30
Total PFOA	0.12	J	2.14	2.23		ng/g	☼	99	72 - 132	6	30
Total PFHxS	ND		1.95	1.98		ng/g	☼	102	62 - 122	2	30
Total PFOS	8.1		1.99	10.7	4	ng/g	☼	129	68 - 141	2	30
Total NMeFOSAA	ND		2.14	2.13		ng/g	☼	100	72 - 132	6	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*93*		*25 - 150*
13C4 PFHpA	*95*		*25 - 150*
13C5 PFPeA	*93*		*25 - 150*
13C2 PFTeDA	*98*		*25 - 150*
13C2 PFHxA	*93*		*25 - 150*
13C3 PFBS	*94*		*25 - 150*
13C4 PFOA	*92*		*25 - 150*
13C5 PFNA	*95*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
13C2 PFUnA	*86*		*25 - 150*
d3-NMeFOSAA	*90*		*25 - 150*
13C2 PFDoA	*91*		*25 - 150*
d5-NEtFOSAA	*94*		*25 - 150*
18O2 PFHxS	*96*		*25 - 150*
M2-4:2 FTS	*110*		*25 - 150*
13C4 PFOS	*87*		*25 - 150*
M2-6:2 FTS	*109*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-14 MSD
Matrix: Solid
Analysis Batch: 598427

Client Sample ID: SO 220607 1810 WPS-FD
Prep Type: Total/NA
Prep Batch: 596260

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-8:2 FTS	*85*		*25 - 150*
13C3 HFPO-DA	*92*		*25 - 150*

Lab Sample ID: MB 320-596270/1-A
Matrix: Solid
Analysis Batch: 598407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		0.20	0.046	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorobutanesulfonic acid	ND		0.20	0.038	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorodecanoic acid	ND		0.20	0.048	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorododecanoic acid	ND		0.20	0.030	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluoroheptanesulfonic acid	ND		0.20	0.049	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluoroheptanoic acid	ND		0.20	0.038	ng/g		06/17/22 12:14	06/25/22 00:57	1
L-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorodecanesulfonic acid	ND		0.20	0.052	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorohexanoic acid	ND		0.20	0.031	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorononanesulfonic acid	ND		0.20	0.029	ng/g		06/17/22 12:14	06/25/22 00:57	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorononanoic acid	ND		0.20	0.022	ng/g		06/17/22 12:14	06/25/22 00:57	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.20	0.048	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorooctanesulfonamide	ND		0.20	0.033	ng/g		06/17/22 12:14	06/25/22 00:57	1
4:2 Fluorotelomer sulfonic acid	ND		0.20	0.051	ng/g		06/17/22 12:14	06/25/22 00:57	1
L-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		06/17/22 12:14	06/25/22 00:57	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.027	ng/g		06/17/22 12:14	06/25/22 00:57	1
L-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		06/17/22 12:14	06/25/22 00:57	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.035	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluoropentanesulfonic acid	ND		0.20	0.037	ng/g		06/17/22 12:14	06/25/22 00:57	1
DONA	ND		0.20	0.039	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluoropentanoic acid	ND		0.20	0.041	ng/g		06/17/22 12:14	06/25/22 00:57	1
HFPODA	ND		0.20	0.041	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorotetradecanoic acid	ND		0.20	0.037	ng/g		06/17/22 12:14	06/25/22 00:57	1
9Cl-PF3ONS	ND		0.20	0.035	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g		06/17/22 12:14	06/25/22 00:57	1
11Cl-PF3OUdS	ND		0.20	0.031	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluoroundecanoic acid	ND		0.20	0.042	ng/g		06/17/22 12:14	06/25/22 00:57	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.20	0.044	ng/g		06/17/22 12:14	06/25/22 00:57	1
FBSA	ND		0.20	0.029	ng/g		06/17/22 12:14	06/25/22 00:57	1
FHxSA	ND		0.20	0.034	ng/g		06/17/22 12:14	06/25/22 00:57	1
Total NEtFOSAA	ND		0.20	0.048	ng/g		06/17/22 12:14	06/25/22 00:57	1
Total PFOA	ND		0.20	0.053	ng/g		06/17/22 12:14	06/25/22 00:57	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.20	0.048	ng/g		06/17/22 12:14	06/25/22 00:57	1
Br-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		06/17/22 12:14	06/25/22 00:57	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		06/17/22 12:14	06/25/22 00:57	1
Br-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		06/17/22 12:14	06/25/22 00:57	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-596270/1-A
Matrix: Solid
Analysis Batch: 598407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		06/17/22 12:14	06/25/22 00:57	1
Total PFHxS	ND		0.20	0.029	ng/g		06/17/22 12:14	06/25/22 00:57	1
Total PFOS	ND		0.20	0.043	ng/g		06/17/22 12:14	06/25/22 00:57	1
Total NMeFOSAA	ND		0.20	0.023	ng/g		06/17/22 12:14	06/25/22 00:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C4 PFHpA	*98*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C2 PFTeDA	*107*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C2 PFHxA	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C3 PFBS	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C5 PFNA	*96*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C2 PFDA	*95*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C8 FOSA	*102*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C2 PFUnA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
d3-NMeFOSAA	*103*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C2 PFDoA	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
d5-NEtFOSAA	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
18O2 PFHxS	*97*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
M2-4:2 FTS	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C4 PFOS	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
M2-6:2 FTS	*112*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
M2-8:2 FTS	*104*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*
13C3 HFPO-DA	*94*		*25 - 150*	*06/17/22 12:14*	*06/25/22 00:57*	*1*

Lab Sample ID: LCS 320-596270/2-A
Matrix: Solid
Analysis Batch: 598407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	2.00	2.06		ng/g		103	76 - 136
Perfluorobutanesulfonic acid	1.78	1.79		ng/g		101	69 - 129
Perfluorodecanoic acid	2.00	2.03		ng/g		102	72 - 132
Perfluorododecanoic acid	2.00	2.02		ng/g		101	71 - 131
Perfluoroheptanesulfonic acid	1.91	1.98		ng/g		104	76 - 136
Perfluoroheptanoic acid	2.00	2.00		ng/g		100	71 - 131
Perfluorodecanesulfonic acid	1.93	1.94		ng/g		100	71 - 131
Perfluorohexanoic acid	2.00	1.90		ng/g		95	71 - 131
Perfluorononanesulfonic acid	1.92	1.86		ng/g		97	72 - 132
Perfluorononanoic acid	2.00	1.92		ng/g		96	73 - 133
Perfluorooctanesulfonamide	2.00	2.03		ng/g		101	77 - 137
4:2 Fluorotelomer sulfonic acid	1.88	1.78		ng/g		95	68 - 143
6:2 Fluorotelomer sulfonic acid	1.90	2.00		ng/g		105	73 - 139
8:2 Fluorotelomer sulfonic acid	1.92	1.93		ng/g		101	75 - 135
Perfluoropentanesulfonic acid	1.88	1.92		ng/g		102	66 - 126
DONA	1.89	1.86		ng/g		99	79 - 139
Perfluoropentanoic acid	2.00	2.10		ng/g		105	69 - 129

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-596270/2-A
Matrix: Solid
Analysis Batch: 598407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPODA	2.00	1.88		ng/g		94	53 - 158
Perfluorotetradecanoic acid	2.00	1.94		ng/g		97	67 - 127
9Cl-PF3ONS	1.87	1.90		ng/g		102	74 - 134
Perfluorotridecanoic acid	2.00	2.01		ng/g		101	71 - 131
11Cl-PF3OUdS	1.89	2.24		ng/g		119	66 - 136
Perfluoroundecanoic acid	2.00	1.86		ng/g		93	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	1.85	1.90		ng/g		103	50 - 150
FBSA	2.00	1.92		ng/g		96	70 - 130
FHxSA	2.00	1.94		ng/g		97	70 - 130
Total NEtFOSAA	2.00	1.99		ng/g		100	72 - 132
Total PFOA	2.00	1.94		ng/g		97	72 - 132
Total PFHxS	1.82	1.74		ng/g		95	62 - 122
Total PFOS	1.86	1.81		ng/g		97	68 - 141
Total NMeFOSAA	2.00	1.92		ng/g		96	72 - 132

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*79*		*25 - 150*
13C4 PFHpA	*98*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFTeDA	*112*		*25 - 150*
13C2 PFHxA	*98*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
13C4 PFOA	*98*		*25 - 150*
13C5 PFNA	*100*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C8 FOSA	*109*		*25 - 150*
13C2 PFUnA	*107*		*25 - 150*
d3-NMeFOSAA	*108*		*25 - 150*
13C2 PFDoA	*108*		*25 - 150*
d5-NEtFOSAA	*117*		*25 - 150*
18O2 PFHxS	*104*		*25 - 150*
M2-4:2 FTS	*120*		*25 - 150*
13C4 PFOS	*100*		*25 - 150*
M2-6:2 FTS	*113*		*25 - 150*
M2-8:2 FTS	*108*		*25 - 150*
13C3 HFPO-DA	*97*		*25 - 150*

Lab Sample ID: 240-168146-32 MS
Matrix: Solid
Analysis Batch: 598407

Client Sample ID: SO 220608 1600 WPS
Prep Type: Total/NA
Prep Batch: 596270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND		2.23	2.27		ng/g	☼	102	76 - 136
Perfluorobutanesulfonic acid	ND		1.98	1.94		ng/g	☼	98	69 - 129
Perfluorodecanoic acid	ND		2.23	2.20		ng/g	☼	99	72 - 132
Perfluorododecanoic acid	ND		2.23	2.16		ng/g	☼	97	71 - 131
Perfluoroheptanesulfonic acid	ND		2.13	2.28		ng/g	☼	107	76 - 136
Perfluoroheptanoic acid	ND		2.23	2.26		ng/g	☼	101	71 - 131

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-32 MS
Client Sample ID: SO 220608 1600 WPS
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598407
Prep Batch: 596270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanesulfonic acid	ND		2.15	2.20		ng/g	☼	102	71 - 131
Perfluorohexanoic acid	ND		2.23	2.08		ng/g	☼	93	71 - 131
Perfluorononanesulfonic acid	ND		2.15	2.16		ng/g	☼	100	72 - 132
Perfluorononanoic acid	ND		2.23	2.22		ng/g	☼	99	73 - 133
Perfluorooctanesulfonamide	ND		2.23	2.26		ng/g	☼	101	77 - 137
4:2 Fluorotelomer sulfonic acid	ND		2.09	2.02		ng/g	☼	96	68 - 143
6:2 Fluorotelomer sulfonic acid	ND		2.12	2.06		ng/g	☼	97	73 - 139
8:2 Fluorotelomer sulfonic acid	ND		2.14	2.41		ng/g	☼	112	75 - 135
Perfluoropentanesulfonic acid	ND		2.09	2.12		ng/g	☼	101	66 - 126
DONA	ND		2.11	2.14		ng/g	☼	102	79 - 139
Perfluoropentanoic acid	ND		2.23	2.29		ng/g	☼	102	69 - 129
HFPODA	ND		2.23	2.18		ng/g	☼	98	53 - 158
Perfluorotetradecanoic acid	ND		2.23	2.23		ng/g	☼	100	67 - 127
9Cl-PF3ONS	ND		2.08	2.24		ng/g	☼	108	74 - 134
Perfluorotridecanoic acid	ND		2.23	2.27		ng/g	☼	102	71 - 131
11Cl-PF3OUdS	ND		2.11	2.64		ng/g	☼	125	66 - 136
Perfluoroundecanoic acid	ND		2.23	2.13		ng/g	☼	95	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.06	2.15		ng/g	☼	104	50 - 150
FBSA	ND		2.23	2.36		ng/g	☼	106	50 - 150
FHxSA	ND		2.23	2.31		ng/g	☼	103	50 - 150
Total NEtFOSAA	ND		2.23	1.97		ng/g	☼	88	72 - 132
Total PFOA	ND		2.23	2.19		ng/g	☼	98	72 - 132
Total PFHxS	ND		2.04	2.09		ng/g	☼	103	62 - 122
Total PFOS	ND		2.08	2.09		ng/g	☼	101	68 - 141
Total NMeFOSAA	ND		2.23	2.22		ng/g	☼	100	72 - 132

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*87*		*25 - 150*
13C4 PFHpA	*92*		*25 - 150*
13C5 PFPeA	*87*		*25 - 150*
13C2 PFTeDA	*104*		*25 - 150*
13C2 PFHxA	*88*		*25 - 150*
13C3 PFBS	*89*		*25 - 150*
13C4 PFOA	*90*		*25 - 150*
13C5 PFNA	*90*		*25 - 150*
13C2 PFDA	*92*		*25 - 150*
13C8 FOSA	*91*		*25 - 150*
13C2 PFUnA	*101*		*25 - 150*
d3-NMeFOSAA	*93*		*25 - 150*
13C2 PFDoA	*97*		*25 - 150*
d5-NEtFOSAA	*105*		*25 - 150*
18O2 PFHxS	*91*		*25 - 150*
M2-4:2 FTS	*99*		*25 - 150*
13C4 PFOS	*88*		*25 - 150*
M2-6:2 FTS	*101*		*25 - 150*
M2-8:2 FTS	*88*		*25 - 150*
13C3 HFPO-DA	*90*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-32 MSD
Client Sample ID: SO 220608 1600 WPS
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598407
Prep Batch: 596270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		2.42	2.49		ng/g	☼	103	76 - 136	9	30
Perfluorobutanesulfonic acid	ND		2.15	2.18		ng/g	☼	101	69 - 129	12	30
Perfluorodecanoic acid	ND		2.42	2.51		ng/g	☼	103	72 - 132	13	30
Perfluorododecanoic acid	ND		2.42	2.39		ng/g	☼	99	71 - 131	10	30
Perfluoroheptanesulfonic acid	ND		2.31	2.43		ng/g	☼	105	76 - 136	6	30
Perfluoroheptanoic acid	ND		2.42	2.41		ng/g	☼	100	71 - 131	7	30
Perfluorodecanesulfonic acid	ND		2.34	2.33		ng/g	☼	100	71 - 131	6	30
Perfluorohexanoic acid	ND		2.42	2.47		ng/g	☼	102	71 - 131	17	30
Perfluorononanesulfonic acid	ND		2.33	2.31		ng/g	☼	99	72 - 132	7	30
Perfluorononanoic acid	ND		2.42	2.41		ng/g	☼	99	73 - 133	8	30
Perfluorooctanesulfonamide	ND		2.42	2.48		ng/g	☼	102	77 - 137	9	30
4:2 Fluorotelomer sulfonic acid	ND		2.27	2.06		ng/g	☼	90	68 - 143	2	30
6:2 Fluorotelomer sulfonic acid	ND		2.31	2.34		ng/g	☼	102	73 - 139	13	30
8:2 Fluorotelomer sulfonic acid	ND		2.33	2.28		ng/g	☼	98	75 - 135	5	30
Perfluoropentanesulfonic acid	ND		2.27	2.28		ng/g	☼	100	66 - 126	7	30
DONA	ND		2.29	2.37		ng/g	☼	103	79 - 139	10	30
Perfluoropentanoic acid	ND		2.42	2.46		ng/g	☼	101	69 - 129	7	30
HFPODA	ND		2.42	2.45		ng/g	☼	101	53 - 158	11	30
Perfluorotetradecanoic acid	ND		2.42	2.40		ng/g	☼	99	67 - 127	8	30
9Cl-PF3ONS	ND		2.26	2.40		ng/g	☼	106	74 - 134	7	30
Perfluorotridecanoic acid	ND		2.42	2.48		ng/g	☼	102	71 - 131	9	30
11Cl-PF3OUdS	ND		2.29	2.85		ng/g	☼	124	66 - 136	8	30
Perfluoroundecanoic acid	ND		2.42	2.34		ng/g	☼	96	66 - 126	9	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.24	2.20		ng/g	☼	98	50 - 150	2	30
FBSA	ND		2.42	2.43		ng/g	☼	100	50 - 150	3	30
FHxSA	ND		2.42	2.47		ng/g	☼	102	50 - 150	7	30
Total NEtFOSAA	ND		2.42	2.38		ng/g	☼	98	72 - 132	19	30
Total PFOA	ND		2.42	2.40		ng/g	☼	99	72 - 132	9	30
Total PFHxS	ND		2.21	2.19		ng/g	☼	99	62 - 122	5	30
Total PFOS	ND		2.25	2.22		ng/g	☼	98	68 - 141	6	30
Total NMeFOSAA	ND		2.42	2.30		ng/g	☼	95	72 - 132	4	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*89*		*25 - 150*
13C4 PFHpA	*94*		*25 - 150*
13C5 PFPeA	*91*		*25 - 150*
13C2 PFTeDA	*111*		*25 - 150*
13C2 PFHxA	*89*		*25 - 150*
13C3 PFBS	*90*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*95*		*25 - 150*
13C2 PFDA	*94*		*25 - 150*
13C8 FOSA	*96*		*25 - 150*
13C2 PFUnA	*100*		*25 - 150*
d3-NMeFOSAA	*98*		*25 - 150*
13C2 PFDoA	*101*		*25 - 150*
d5-NEtFOSAA	*104*		*25 - 150*
18O2 PFHxS	*93*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-32 MSD
Matrix: Solid
Analysis Batch: 598407

Client Sample ID: SO 220608 1600 WPS
Prep Type: Total/NA
Prep Batch: 596270

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*104*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
M2-6:2 FTS	*98*		*25 - 150*
M2-8:2 FTS	*96*		*25 - 150*
13C3 HFPO-DA	*90*		*25 - 150*

Lab Sample ID: MB 320-597522/1-A
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		0.20	0.046	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorobutanesulfonic acid	ND		0.20	0.038	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorodecanoic acid	ND		0.20	0.048	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorododecanoic acid	ND		0.20	0.030	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluoroheptanesulfonic acid	ND		0.20	0.049	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluoroheptanoic acid	ND		0.20	0.038	ng/g		06/21/22 19:11	06/25/22 14:31	1
L-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorodecanesulfonic acid	ND		0.20	0.052	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorohexanoic acid	ND		0.20	0.031	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorononanesulfonic acid	ND		0.20	0.029	ng/g		06/21/22 19:11	06/25/22 14:31	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorononanoic acid	ND		0.20	0.022	ng/g		06/21/22 19:11	06/25/22 14:31	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.048	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorooctanesulfonamide	ND		0.20	0.033	ng/g		06/21/22 19:11	06/25/22 14:31	1
4:2 Fluorotelomer sulfonic acid	ND		0.20	0.051	ng/g		06/21/22 19:11	06/25/22 14:31	1
L-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		06/21/22 19:11	06/25/22 14:31	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.027	ng/g		06/21/22 19:11	06/25/22 14:31	1
L-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		06/21/22 19:11	06/25/22 14:31	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.035	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluoropentanesulfonic acid	ND		0.20	0.037	ng/g		06/21/22 19:11	06/25/22 14:31	1
DONA	ND		0.20	0.039	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluoropentanoic acid	ND		0.20	0.041	ng/g		06/21/22 19:11	06/25/22 14:31	1
HFPODA	ND		0.20	0.041	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorotetradecanoic acid	ND		0.20	0.037	ng/g		06/21/22 19:11	06/25/22 14:31	1
9Cl-PF3ONS	ND		0.20	0.035	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g		06/21/22 19:11	06/25/22 14:31	1
11Cl-PF3OUdS	ND		0.20	0.031	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluoroundecanoic acid	ND		0.20	0.042	ng/g		06/21/22 19:11	06/25/22 14:31	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.20	0.044	ng/g		06/21/22 19:11	06/25/22 14:31	1
FBSA	ND		0.20	0.029	ng/g		06/21/22 19:11	06/25/22 14:31	1
FHxSA	ND		0.20	0.034	ng/g		06/21/22 19:11	06/25/22 14:31	1
Total NEtFOSAA	ND		0.20	0.048	ng/g		06/21/22 19:11	06/25/22 14:31	1
Total PFOA	ND		0.20	0.053	ng/g		06/21/22 19:11	06/25/22 14:31	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.048	ng/g		06/21/22 19:11	06/25/22 14:31	1
Br-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		06/21/22 19:11	06/25/22 14:31	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-597522/1-A
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		06/21/22 19:11	06/25/22 14:31	1
Br-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		06/21/22 19:11	06/25/22 14:31	1
Br-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		06/21/22 19:11	06/25/22 14:31	1
Total PFHxS	ND		0.20	0.029	ng/g		06/21/22 19:11	06/25/22 14:31	1
Total PFOS	ND		0.20	0.043	ng/g		06/21/22 19:11	06/25/22 14:31	1
Total NMeFOSAA	ND		0.20	0.023	ng/g		06/21/22 19:11	06/25/22 14:31	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*63*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C4 PFHpA	*86*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C5 PFPeA	*83*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C2 PFHxA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C3 PFBS	*79*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C4 PFOA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C5 PFNA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C2 PFDA	*84*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C8 FOSA	*92*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C2 PFUnA	*94*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
d3-NMeFOSAA	*89*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C2 PFDoA	*90*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
d5-NEtFOSAA	*94*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
18O2 PFHxS	*83*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
M2-4:2 FTS	*99*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C4 PFOS	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*
13C3 HFPO-DA	*82*		*25 - 150*	*06/21/22 19:11*	*06/25/22 14:31*	*1*

Lab Sample ID: LCS 320-597522/2-A
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	2.00	2.24		ng/g		112	76 - 136
Perfluorobutanesulfonic acid	1.78	1.92		ng/g		108	69 - 129
Perfluorodecanoic acid	2.00	2.09		ng/g		105	72 - 132
Perfluorododecanoic acid	2.00	2.11		ng/g		106	71 - 131
Perfluoroheptanesulfonic acid	1.91	2.11		ng/g		111	76 - 136
Perfluoroheptanoic acid	2.00	2.12		ng/g		106	71 - 131
Perfluorodecanesulfonic acid	1.93	2.05		ng/g		106	71 - 131
Perfluorohexanoic acid	2.00	1.96		ng/g		98	71 - 131
Perfluorononanesulfonic acid	1.92	2.06		ng/g		107	72 - 132
Perfluorononanoic acid	2.00	2.00		ng/g		100	73 - 133
Perfluorooctanesulfonamide	2.00	2.14		ng/g		107	77 - 137
4:2 Fluorotelomer sulfonic acid	1.88	2.06		ng/g		110	68 - 143
6:2 Fluorotelomer sulfonic acid	1.90	1.99		ng/g		105	73 - 139
8:2 Fluorotelomer sulfonic acid	1.92	1.96		ng/g		102	75 - 135

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-597522/2-A
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid	1.88	1.99		ng/g		106	66 - 126
DONA	1.89	2.04		ng/g		108	79 - 139
Perfluoropentanoic acid	2.00	2.03		ng/g		101	69 - 129
HFPODA	2.00	2.02		ng/g		101	53 - 158
Perfluorotetradecanoic acid	2.00	1.97		ng/g		99	67 - 127
9Cl-PF3ONS	1.87	2.11		ng/g		113	74 - 134
Perfluorotridecanoic acid	2.00	2.23		ng/g		112	71 - 131
11Cl-PF3OUdS	1.89	2.50		ng/g		133	66 - 136
Perfluoroundecanoic acid	2.00	1.85		ng/g		93	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	1.85	1.91		ng/g		103	50 - 150
FBSA	2.00	2.01		ng/g		101	70 - 130
FHxSA	2.00	2.04		ng/g		102	70 - 130
Total NEtFOSAA	2.00	2.04		ng/g		102	72 - 132
Total PFOA	2.00	2.10		ng/g		105	72 - 132
Total PFHxS	1.82	1.85		ng/g		102	62 - 122
Total PFOS	1.86	1.99		ng/g		107	68 - 141
Total NMeFOSAA	2.00	2.04		ng/g		102	72 - 132

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*56*		*25 - 150*
13C4 PFHpA	*82*		*25 - 150*
13C5 PFPeA	*79*		*25 - 150*
13C2 PFTeDA	*94*		*25 - 150*
13C2 PFHxA	*80*		*25 - 150*
13C3 PFBS	*79*		*25 - 150*
13C4 PFOA	*81*		*25 - 150*
13C5 PFNA	*85*		*25 - 150*
13C2 PFDA	*84*		*25 - 150*
13C8 FOSA	*89*		*25 - 150*
13C2 PFUnA	*98*		*25 - 150*
d3-NMeFOSAA	*90*		*25 - 150*
13C2 PFDoA	*90*		*25 - 150*
d5-NEtFOSAA	*103*		*25 - 150*
18O2 PFHxS	*82*		*25 - 150*
M2-4:2 FTS	*94*		*25 - 150*
13C4 PFOS	*79*		*25 - 150*
M2-6:2 FTS	*94*		*25 - 150*
M2-8:2 FTS	*96*		*25 - 150*
13C3 HFPO-DA	*79*		*25 - 150*

Lab Sample ID: 240-168146-41 MS
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: SO 220608 1655 WPS-FD
Prep Type: Total/NA
Prep Batch: 597522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND		2.41	2.70		ng/g	☼	112	76 - 136
Perfluorobutanesulfonic acid	ND		2.14	2.35		ng/g	☼	110	69 - 129
Perfluorodecanoic acid	ND		2.41	2.60		ng/g	☼	108	72 - 132

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-41 MS
Client Sample ID: SO 220608 1655 WPS-FD
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 598420
Prep Batch: 597522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid	ND		2.41	2.45		ng/g	☼	102	71 - 131
Perfluoroheptanesulfonic acid	ND		2.30	2.51		ng/g	☼	109	76 - 136
Perfluoroheptanoic acid	ND		2.41	2.67		ng/g	☼	111	71 - 131
Perfluorodecanesulfonic acid	ND		2.33	2.39		ng/g	☼	103	71 - 131
Perfluorohexanoic acid	0.043	J	2.41	2.44		ng/g	☼	100	71 - 131
Perfluorononanesulfonic acid	ND		2.32	2.50		ng/g	☼	108	72 - 132
Perfluorononanoic acid	0.029	J	2.41	2.51		ng/g	☼	103	73 - 133
Perfluorooctanesulfonamide	ND		2.41	2.59		ng/g	☼	108	77 - 137
4:2 Fluorotelomer sulfonic acid	ND		2.26	2.28		ng/g	☼	101	68 - 143
6:2 Fluorotelomer sulfonic acid	0.25		2.30	2.43		ng/g	☼	95	73 - 139
8:2 Fluorotelomer sulfonic acid	0.20	J	2.32	2.55		ng/g	☼	101	75 - 135
Perfluoropentanesulfonic acid	ND		2.26	2.50		ng/g	☼	110	66 - 126
DONA	ND		2.28	2.59		ng/g	☼	114	79 - 139
Perfluoropentanoic acid	0.083	J	2.41	2.57		ng/g	☼	103	69 - 129
HFPODA	ND		2.41	2.56		ng/g	☼	106	53 - 158
Perfluorotetradecanoic acid	ND		2.41	2.45		ng/g	☼	101	67 - 127
9Cl-PF3ONS	ND		2.25	2.54		ng/g	☼	113	74 - 134
Perfluorotridecanoic acid	ND		2.41	2.58		ng/g	☼	107	71 - 131
11Cl-PF3OUdS	ND	F1	2.28	3.18	F1	ng/g	☼	140	66 - 136
Perfluoroundecanoic acid	ND		2.41	2.41		ng/g	☼	100	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.23	2.21		ng/g	☼	99	50 - 150
FBSA	ND		2.41	2.35		ng/g	☼	98	50 - 150
FHxSA	0.086	J	2.41	2.56		ng/g	☼	102	50 - 150
Total NEtFOSAA	ND		2.41	2.55		ng/g	☼	106	72 - 132
Total PFOA	ND		2.41	2.50		ng/g	☼	104	72 - 132
Total PFHxS	0.13	J	2.20	2.37		ng/g	☼	102	62 - 122
Total PFOS	7.7	F1	2.24	10.7		ng/g	☼	136	68 - 141
Total NMeFOSAA	ND		2.41	2.43		ng/g	☼	101	72 - 132

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*64*		*25 - 150*
13C4 PFHpA	*89*		*25 - 150*
13C5 PFPeA	*88*		*25 - 150*
13C2 PFTeDA	*111*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C3 PFBS	*79*		*25 - 150*
13C4 PFOA	*92*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C8 FOSA	*96*		*25 - 150*
13C2 PFUnA	*103*		*25 - 150*
d3-NMeFOSAA	*99*		*25 - 150*
13C2 PFDoA	*104*		*25 - 150*
d5-NEtFOSAA	*109*		*25 - 150*
18O2 PFHxS	*85*		*25 - 150*
M2-4:2 FTS	*100*		*25 - 150*
13C4 PFOS	*83*		*25 - 150*
M2-6:2 FTS	*96*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-41 MS
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: SO 220608 1655 WPS-FD
Prep Type: Total/NA
Prep Batch: 597522

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-8:2 FTS	*94*		*25 - 150*
13C3 HFPO-DA	*87*		*25 - 150*

Lab Sample ID: 240-168146-41 MSD
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: SO 220608 1655 WPS-FD
Prep Type: Total/NA
Prep Batch: 597522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		2.40	2.79		ng/g	☼	116	76 - 136	4	30
Perfluorobutanesulfonic acid	ND		2.13	2.27		ng/g	☼	106	69 - 129	3	30
Perfluorodecanoic acid	ND		2.40	2.52		ng/g	☼	105	72 - 132	3	30
Perfluorododecanoic acid	ND		2.40	2.42		ng/g	☼	101	71 - 131	1	30
Perfluoroheptanesulfonic acid	ND		2.29	2.55		ng/g	☼	111	76 - 136	1	30
Perfluoroheptanoic acid	ND		2.40	2.47		ng/g	☼	103	71 - 131	8	30
Perfluorodecanesulfonic acid	ND		2.32	2.57		ng/g	☼	111	71 - 131	7	30
Perfluorohexanoic acid	0.043	J	2.40	2.42		ng/g	☼	99	71 - 131	1	30
Perfluorononanesulfonic acid	ND		2.31	2.49		ng/g	☼	108	72 - 132	1	30
Perfluorononanoic acid	0.029	J	2.40	2.48		ng/g	☼	102	73 - 133	1	30
Perfluorooctanesulfonamide	ND		2.40	2.59		ng/g	☼	108	77 - 137	0	30
4:2 Fluorotelomer sulfonic acid	ND		2.25	2.54		ng/g	☼	113	68 - 143	11	30
6:2 Fluorotelomer sulfonic acid	0.25		2.29	2.57		ng/g	☼	101	73 - 139	6	30
8:2 Fluorotelomer sulfonic acid	0.20	J	2.31	2.75		ng/g	☼	111	75 - 135	8	30
Perfluoropentanesulfonic acid	ND		2.25	2.45		ng/g	☼	109	66 - 126	2	30
DONA	ND		2.27	2.67		ng/g	☼	118	79 - 139	3	30
Perfluoropentanoic acid	0.083	J	2.40	2.71		ng/g	☼	109	69 - 129	5	30
HFPODA	ND		2.40	2.50		ng/g	☼	104	53 - 158	2	30
Perfluorotetradecanoic acid	ND		2.40	2.41		ng/g	☼	100	67 - 127	2	30
9Cl-PF3ONS	ND		2.24	2.63		ng/g	☼	117	74 - 134	4	30
Perfluorotridecanoic acid	ND		2.40	2.59		ng/g	☼	108	71 - 131	0	30
11Cl-PF3OUdS	ND	F1	2.27	3.15	F1	ng/g	☼	139	66 - 136	1	30
Perfluoroundecanoic acid	ND		2.40	2.28		ng/g	☼	95	66 - 126	5	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.22	2.18		ng/g	☼	98	50 - 150	2	30
FBSA	ND		2.40	2.35		ng/g	☼	98	50 - 150	0	30
FHxSA	0.086	J	2.40	2.53		ng/g	☼	102	50 - 150	1	30
Total NEtFOSAA	ND		2.40	2.63		ng/g	☼	109	72 - 132	3	30
Total PFOA	ND		2.40	2.57		ng/g	☼	107	72 - 132	3	30
Total PFHxS	0.13	J	2.19	2.38		ng/g	☼	103	62 - 122	0	30
Total PFOS	7.7	F1	2.23	11.3	F1	ng/g	☼	161	68 - 141	5	30
Total NMeFOSAA	ND		2.40	2.51		ng/g	☼	105	72 - 132	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*63*		*25 - 150*
13C4 PFHpA	*91*		*25 - 150*
13C5 PFPeA	*84*		*25 - 150*
13C2 PFTeDA	*109*		*25 - 150*
13C2 PFHxA	*88*		*25 - 150*
13C3 PFBS	*78*		*25 - 150*
13C4 PFOA	*90*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-41 MSD
Matrix: Solid
Analysis Batch: 598420

Client Sample ID: SO 220608 1655 WPS-FD
Prep Type: Total/NA
Prep Batch: 597522

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C5 PFNA	94		25 - 150
13C2 PFDA	90		25 - 150
13C8 FOSA	95		25 - 150
13C2 PFUnA	106		25 - 150
d3-NMeFOSAA	96		25 - 150
13C2 PFDoA	101		25 - 150
d5-NEtFOSAA	102		25 - 150
18O2 PFHxS	83		25 - 150
M2-4:2 FTS	87		25 - 150
13C4 PFOS	81		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	86		25 - 150

Lab Sample ID: MB 320-597661/1-A
Matrix: Water
Analysis Batch: 598425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		5.0	2.4	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorobutanesulfonic acid	ND		2.0	0.20	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorodecanoic acid	ND		2.0	0.31	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorododecanoic acid	ND		2.0	0.55	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluoroheptanesulfonic acid	ND		2.0	0.19	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluoroheptanoic acid	ND		2.0	0.25	ng/L		06/22/22 12:54	06/25/22 21:19	1
L-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorodecanesulfonic acid	ND		2.0	0.32	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorohexanoic acid	ND		2.0	0.58	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorononanesulfonic acid	ND		2.0	0.37	ng/L		06/22/22 12:54	06/25/22 21:19	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorononanoic acid	ND		2.0	0.27	ng/L		06/22/22 12:54	06/25/22 21:19	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		5.0	1.3	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorooctanesulfonamide	ND		2.0	0.98	ng/L		06/22/22 12:54	06/25/22 21:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.24	ng/L		06/22/22 12:54	06/25/22 21:19	1
L-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/22/22 12:54	06/25/22 21:19	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.5	ng/L		06/22/22 12:54	06/25/22 21:19	1
L-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/22/22 12:54	06/25/22 21:19	1
8:2 Fluorotelomer sulfonic acid	ND		2.0	0.46	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluoropentanesulfonic acid	ND		2.0	0.30	ng/L		06/22/22 12:54	06/25/22 21:19	1
DONA	ND		2.0	0.40	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluoropentanoic acid	ND		2.0	0.49	ng/L		06/22/22 12:54	06/25/22 21:19	1
HFPODA	ND		4.0	1.5	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorotetradecanoic acid	ND		2.0	0.73	ng/L		06/22/22 12:54	06/25/22 21:19	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluorotridecanoic acid	ND		2.0	1.3	ng/L		06/22/22 12:54	06/25/22 21:19	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		06/22/22 12:54	06/25/22 21:19	1
Perfluoroundecanoic acid	ND		2.0	1.1	ng/L		06/22/22 12:54	06/25/22 21:19	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-597661/1-A
Matrix: Water
Analysis Batch: 598425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.0	0.45	ng/L		06/22/22 12:54	06/25/22 21:19	1
FBSA	ND		2.0	0.35	ng/L		06/22/22 12:54	06/25/22 21:19	1
FHxSA	ND		2.0	0.22	ng/L		06/22/22 12:54	06/25/22 21:19	1
Total NEtFOSAA	ND		5.0	1.3	ng/L		06/22/22 12:54	06/25/22 21:19	1
Total PFOA	ND		2.0	0.85	ng/L		06/22/22 12:54	06/25/22 21:19	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		5.0	1.3	ng/L		06/22/22 12:54	06/25/22 21:19	1
Br-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/22/22 12:54	06/25/22 21:19	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/22/22 12:54	06/25/22 21:19	1
Br-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/22/22 12:54	06/25/22 21:19	1
Br-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/22/22 12:54	06/25/22 21:19	1
Total PFHxS	ND		2.0	0.57	ng/L		06/22/22 12:54	06/25/22 21:19	1
Total PFOS	ND		2.0	0.54	ng/L		06/22/22 12:54	06/25/22 21:19	1
Total NMeFOSAA	ND		5.0	1.2	ng/L		06/22/22 12:54	06/25/22 21:19	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C4 PFHpA	*96*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C5 PFPeA	*94*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C2 PFTeDA	*117*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C2 PFHxA	*95*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C4 PFOA	*97*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C5 PFNA	*97*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C2 PFDA	*95*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C8 FOSA	*99*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C2 PFUnA	*108*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
d3-NMeFOSAA	*101*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C2 PFDoA	*107*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
d5-NEtFOSAA	*109*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
18O2 PFHxS	*98*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
M2-4:2 FTS	*111*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C4 PFOS	*95*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
M2-6:2 FTS	*114*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
M2-8:2 FTS	*108*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*
13C3 HFPO-DA	*93*		*25 - 150*	*06/22/22 12:54*	*06/25/22 21:19*	*1*

Lab Sample ID: LCS 320-597661/2-A
Matrix: Water
Analysis Batch: 598425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	40.0	42.9		ng/L		107	76 - 136
Perfluorobutanesulfonic acid	35.5	36.4		ng/L		103	67 - 127
Perfluorodecanoic acid	40.0	41.1		ng/L		103	76 - 136
Perfluorododecanoic acid	40.0	40.3		ng/L		101	71 - 131
Perfluoroheptanesulfonic acid	38.2	41.0		ng/L		107	76 - 136
Perfluoroheptanoic acid	40.0	42.9		ng/L		107	72 - 132

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-597661/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 598425
Prep Batch: 597661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanesulfonic acid	38.6	42.0		ng/L		109	71 - 131
Perfluorohexanoic acid	40.0	38.5		ng/L		96	73 - 133
Perfluorononanesulfonic acid	38.5	40.9		ng/L		106	75 - 135
Perfluorononanoic acid	40.0	41.5		ng/L		104	75 - 135
Perfluorooctanesulfonamide	40.0	42.7		ng/L		107	73 - 133
4:2 Fluorotelomer sulfonic acid	37.5	39.9		ng/L		106	79 - 139
6:2 Fluorotelomer sulfonic acid	38.1	38.4		ng/L		101	59 - 175
8:2 Fluorotelomer sulfonic acid	38.4	39.5		ng/L		103	75 - 135
Perfluoropentanesulfonic acid	37.5	37.7		ng/L		101	66 - 126
DONA	37.8	39.9		ng/L		106	79 - 139
Perfluoropentanoic acid	40.0	40.3		ng/L		101	71 - 131
HFPODA	40.0	41.6		ng/L		104	51 - 173
Perfluorotetradecanoic acid	40.0	40.4		ng/L		101	70 - 130
9Cl-PF3ONS	37.4	40.9		ng/L		110	75 - 135
Perfluorotridecanoic acid	40.0	41.6		ng/L		104	71 - 131
11Cl-PF3OUdS	37.8	49.4	*+	ng/L		131	54 - 114
Perfluoroundecanoic acid	40.0	37.7		ng/L		94	68 - 128
Perfluoro-4-ethylcyclohexanesulfonic acid	37.0	39.8		ng/L		108	70 - 130
FBSA	40.0	43.2		ng/L		108	70 - 130
FHxSA	40.0	41.7		ng/L		104	70 - 130
Total NEtFOSAA	40.0	41.6		ng/L		104	76 - 136
Total PFOA	40.0	41.3		ng/L		103	70 - 130
Total PFHxS	36.5	37.3		ng/L		102	59 - 119
Total PFOS	37.2	38.8		ng/L		104	70 - 130
Total NMeFOSAA	40.0	42.6		ng/L		107	76 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*89*		*25 - 150*
13C4 PFHpA	*89*		*25 - 150*
13C5 PFPeA	*90*		*25 - 150*
13C2 PFTeDA	*111*		*25 - 150*
13C2 PFHxA	*90*		*25 - 150*
13C3 PFBS	*96*		*25 - 150*
13C4 PFOA	*91*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C8 FOSA	*97*		*25 - 150*
13C2 PFUnA	*108*		*25 - 150*
d3-NMeFOSAA	*97*		*25 - 150*
13C2 PFDoA	*104*		*25 - 150*
d5-NEtFOSAA	*107*		*25 - 150*
18O2 PFHxS	*94*		*25 - 150*
M2-4:2 FTS	*105*		*25 - 150*
13C4 PFOS	*91*		*25 - 150*
M2-6:2 FTS	*110*		*25 - 150*
M2-8:2 FTS	*104*		*25 - 150*
13C3 HFPO-DA	*87*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCSD 320-597661/3-A
Matrix: Water
Analysis Batch: 598425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 597661

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid			40.0	40.2		ng/L		101	76 - 136	6	30
Perfluorobutanesulfonic acid			35.5	36.3		ng/L		102	67 - 127	0	30
Perfluorodecanoic acid			40.0	42.0		ng/L		105	76 - 136	2	30
Perfluorododecanoic acid			40.0	39.4		ng/L		98	71 - 131	2	30
Perfluoroheptanesulfonic acid			38.2	41.2		ng/L		108	76 - 136	0	30
Perfluoroheptanoic acid			40.0	39.4		ng/L		99	72 - 132	8	30
Perfluorodecanesulfonic acid			38.6	41.0		ng/L		106	71 - 131	2	30
Perfluorohexanoic acid			40.0	38.8		ng/L		97	73 - 133	1	30
Perfluorononanesulfonic acid			38.5	39.9		ng/L		104	75 - 135	2	30
Perfluorononanoic acid			40.0	40.1		ng/L		100	75 - 135	4	30
Perfluorooctanesulfonamide			40.0	42.0		ng/L		105	73 - 133	2	30
4:2 Fluorotelomer sulfonic acid			37.5	35.9		ng/L		96	79 - 139	11	30
6:2 Fluorotelomer sulfonic acid			38.1	38.5		ng/L		101	59 - 175	0	30
8:2 Fluorotelomer sulfonic acid			38.4	37.9		ng/L		99	75 - 135	4	30
Perfluoropentanesulfonic acid			37.5	39.4		ng/L		105	66 - 126	4	30
DONA			37.8	38.8		ng/L		103	79 - 139	3	30
Perfluoropentanoic acid			40.0	41.6		ng/L		104	71 - 131	3	30
HFPODA			40.0	41.0		ng/L		103	51 - 173	1	30
Perfluorotetradecanoic acid			40.0	40.2		ng/L		100	70 - 130	0	30
9Cl-PF3ONS			37.4	41.6		ng/L		111	75 - 135	2	30
Perfluorotridecanoic acid			40.0	40.8		ng/L		102	71 - 131	2	30
11Cl-PF3OUdS			37.8	48.2	*+	ng/L		128	54 - 114	2	30
Perfluoroundecanoic acid			40.0	38.1		ng/L		95	68 - 128	1	30
Perfluoro-4-ethylcyclohexanesulfonic acid			37.0	38.3		ng/L		104	70 - 130	4	30
FBSA			40.0	41.4		ng/L		104	70 - 130	4	30
FHxSA			40.0	41.7		ng/L		104	70 - 130	0	30
Total NEtFOSAA			40.0	43.5		ng/L		109	76 - 136	5	30
Total PFOA			40.0	40.8		ng/L		102	70 - 130	1	30
Total PFHxS			36.5	37.5		ng/L		103	59 - 119	1	30
Total PFOS			37.2	38.0		ng/L		102	70 - 130	2	30
Total NMeFOSAA			40.0	41.7		ng/L		104	76 - 136	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C4 PFHpA	*100*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFTeDA	*120*		*25 - 150*
13C2 PFHxA	*96*		*25 - 150*
13C3 PFBS	*98*		*25 - 150*
13C4 PFOA	*98*		*25 - 150*
13C5 PFNA	*101*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C8 FOSA	*101*		*25 - 150*
13C2 PFUnA	*117*		*25 - 150*
d3-NMeFOSAA	*104*		*25 - 150*
13C2 PFDoA	*112*		*25 - 150*
d5-NEtFOSAA	*110*		*25 - 150*
18O2 PFHxS	*98*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCSD 320-597661/3-A
Matrix: Water
Analysis Batch: 598425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 597661

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*119*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
M2-6:2 FTS	*119*		*25 - 150*
M2-8:2 FTS	*113*		*25 - 150*
13C3 HFPO-DA	*97*		*25 - 150*

Lab Sample ID: MB 320-597666/1-A
Matrix: Water
Analysis Batch: 598436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		5.0	2.4	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorobutanesulfonic acid	ND		2.0	0.20	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorodecanoic acid	ND		2.0	0.31	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorododecanoic acid	ND		2.0	0.55	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluoroheptanesulfonic acid	ND		2.0	0.19	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluoroheptanoic acid	ND		2.0	0.25	ng/L		06/22/22 13:01	06/26/22 13:32	1
L-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorodecanesulfonic acid	ND		2.0	0.32	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorohexanoic acid	ND		2.0	0.58	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorononanesulfonic acid	ND		2.0	0.37	ng/L		06/22/22 13:01	06/26/22 13:32	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorononanoic acid	ND		2.0	0.27	ng/L		06/22/22 13:01	06/26/22 13:32	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.3	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorooctanesulfonamide	ND		2.0	0.98	ng/L		06/22/22 13:01	06/26/22 13:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.24	ng/L		06/22/22 13:01	06/26/22 13:32	1
L-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/22/22 13:01	06/26/22 13:32	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.5	ng/L		06/22/22 13:01	06/26/22 13:32	1
L-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/22/22 13:01	06/26/22 13:32	1
8:2 Fluorotelomer sulfonic acid	ND		2.0	0.46	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluoropentanesulfonic acid	ND		2.0	0.30	ng/L		06/22/22 13:01	06/26/22 13:32	1
DONA	ND		2.0	0.40	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluoropentanoic acid	ND		2.0	0.49	ng/L		06/22/22 13:01	06/26/22 13:32	1
HFPODA	ND		4.0	1.5	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorotetradecanoic acid	ND		2.0	0.73	ng/L		06/22/22 13:01	06/26/22 13:32	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluorotridecanoic acid	ND		2.0	1.3	ng/L		06/22/22 13:01	06/26/22 13:32	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluoroundecanoic acid	ND		2.0	1.1	ng/L		06/22/22 13:01	06/26/22 13:32	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.0	0.45	ng/L		06/22/22 13:01	06/26/22 13:32	1
FBSA	ND		2.0	0.35	ng/L		06/22/22 13:01	06/26/22 13:32	1
FHxSA	ND		2.0	0.22	ng/L		06/22/22 13:01	06/26/22 13:32	1
Total NEtFOSAA	ND		5.0	1.3	ng/L		06/22/22 13:01	06/26/22 13:32	1
Total PFOA	ND		2.0	0.85	ng/L		06/22/22 13:01	06/26/22 13:32	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.3	ng/L		06/22/22 13:01	06/26/22 13:32	1
Br-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/22/22 13:01	06/26/22 13:32	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-597666/1-A
Matrix: Water
Analysis Batch: 598436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 597666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/22/22 13:01	06/26/22 13:32	1
Br-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/22/22 13:01	06/26/22 13:32	1
Br-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/22/22 13:01	06/26/22 13:32	1
Total PFHxS	ND		2.0	0.57	ng/L		06/22/22 13:01	06/26/22 13:32	1
Total PFOS	ND		2.0	0.54	ng/L		06/22/22 13:01	06/26/22 13:32	1
Total NMeFOSAA	ND		5.0	1.2	ng/L		06/22/22 13:01	06/26/22 13:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C4 PFHpA	*96*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C5 PFPeA	*99*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C2 PFTeDA	*116*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C2 PFHxA	*93*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C3 PFBS	*98*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C4 PFOA	*97*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C5 PFNA	*96*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C2 PFDA	*95*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C8 FOSA	*103*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C2 PFUnA	*110*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
d3-NMeFOSAA	*99*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C2 PFDoA	*106*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
d5-NEtFOSAA	*110*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
18O2 PFHxS	*101*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
M2-4:2 FTS	*111*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C4 PFOS	*96*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
M2-6:2 FTS	*108*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*
13C3 HFPO-DA	*94*		*25 - 150*	*06/22/22 13:01*	*06/26/22 13:32*	*1*

Lab Sample ID: LCS 320-597666/2-A
Matrix: Water
Analysis Batch: 598436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 597666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	40.0	42.7		ng/L		107	76 - 136
Perfluorobutanesulfonic acid	35.5	38.4		ng/L		108	67 - 127
Perfluorodecanoic acid	40.0	40.3		ng/L		101	76 - 136
Perfluorododecanoic acid	40.0	39.9		ng/L		100	71 - 131
Perfluoroheptanesulfonic acid	38.2	41.5		ng/L		109	76 - 136
Perfluoroheptanoic acid	40.0	40.8		ng/L		102	72 - 132
Perfluorodecanesulfonic acid	38.6	40.0		ng/L		104	71 - 131
Perfluorohexanoic acid	40.0	37.6		ng/L		94	73 - 133
Perfluorononanesulfonic acid	38.5	39.0		ng/L		101	75 - 135
Perfluorononanoic acid	40.0	39.7		ng/L		99	75 - 135
Perfluorooctanesulfonamide	40.0	40.7		ng/L		102	73 - 133
4:2 Fluorotelomer sulfonic acid	37.5	37.6		ng/L		100	79 - 139
6:2 Fluorotelomer sulfonic acid	38.1	38.0		ng/L		100	59 - 175
8:2 Fluorotelomer sulfonic acid	38.4	39.1		ng/L		102	75 - 135

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-597666/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 598436
Prep Batch: 597666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid	37.5	38.8		ng/L		103	66 - 126
DONA	37.8	42.3		ng/L		112	79 - 139
Perfluoropentanoic acid	40.0	41.0		ng/L		103	71 - 131
HFPODA	40.0	40.7		ng/L		102	51 - 173
Perfluorotetradecanoic acid	40.0	39.6		ng/L		99	70 - 130
9Cl-PF3ONS	37.4	40.3		ng/L		108	75 - 135
Perfluorotridecanoic acid	40.0	41.6		ng/L		104	71 - 131
11Cl-PF3OUdS	37.8	48.4	*+	ng/L		128	54 - 114
Perfluoroundecanoic acid	40.0	38.1		ng/L		95	68 - 128
Perfluoro-4-ethylcyclohexanesulfonic acid	37.0	36.8		ng/L		100	70 - 130
FBSA	40.0	42.4		ng/L		106	70 - 130
FHxSA	40.0	42.2		ng/L		106	70 - 130
Total NEtFOSAA	40.0	39.9		ng/L		100	76 - 136
Total PFOA	40.0	40.8		ng/L		102	70 - 130
Total PFHxS	36.5	36.2		ng/L		99	59 - 119
Total PFOS	37.2	38.7		ng/L		104	70 - 130
Total NMeFOSAA	40.0	42.8		ng/L		107	76 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*93*		*25 - 150*
13C4 PFHpA	*95*		*25 - 150*
13C5 PFPeA	*94*		*25 - 150*
13C2 PFTeDA	*109*		*25 - 150*
13C2 PFHxA	*94*		*25 - 150*
13C3 PFBS	*93*		*25 - 150*
13C4 PFOA	*96*		*25 - 150*
13C5 PFNA	*93*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C8 FOSA	*97*		*25 - 150*
13C2 PFUnA	*99*		*25 - 150*
d3-NMeFOSAA	*89*		*25 - 150*
13C2 PFDoA	*97*		*25 - 150*
d5-NEtFOSAA	*101*		*25 - 150*
18O2 PFHxS	*97*		*25 - 150*
M2-4:2 FTS	*106*		*25 - 150*
13C4 PFOS	*88*		*25 - 150*
M2-6:2 FTS	*103*		*25 - 150*
M2-8:2 FTS	*96*		*25 - 150*
13C3 HFPO-DA	*93*		*25 - 150*

Lab Sample ID: 240-168146-45 MS
Client Sample ID: DW 220610 1030 WPS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 598436
Prep Batch: 597666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND		34.7	36.5		ng/L		105	76 - 136
Perfluoropentanoic acid	ND		34.7	33.5		ng/L		97	71 - 131
Perfluorohexanoic acid	ND		34.7	35.3		ng/L		102	73 - 133

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-45 MS
Client Sample ID: DW 220610 1030 WPS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 598436
Prep Batch: 597666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid	ND		34.7	35.3		ng/L		102	72 - 132
Perfluorononanoic acid	ND		34.7	35.0		ng/L		101	75 - 135
Perfluorodecanoic acid	ND		34.7	36.4		ng/L		105	76 - 136
Perfluoroundecanoic acid	ND		34.7	32.5		ng/L		94	68 - 128
Perfluorododecanoic acid	ND		34.7	37.4		ng/L		108	71 - 131
Perfluorotridecanoic acid	ND		34.7	39.4		ng/L		113	71 - 131
Perfluorotetradecanoic acid	ND		34.7	35.0		ng/L		101	70 - 130
Perfluorobutanesulfonic acid	ND		30.8	32.9		ng/L		107	67 - 127
Perfluoropentanesulfonic acid	ND		32.6	34.4		ng/L		106	66 - 126
Perfluoroheptanesulfonic acid	ND		33.1	36.8		ng/L		111	76 - 136
Perfluorononanesulfonic acid	ND		33.4	32.8		ng/L		98	75 - 135
Perfluorodecanesulfonic acid	ND		33.5	30.7		ng/L		92	71 - 131
Perfluorooctanesulfonamide	ND		34.7	36.8		ng/L		106	73 - 133
4:2 Fluorotelomer sulfonic acid	ND		32.6	37.2		ng/L		114	79 - 139
6:2 Fluorotelomer sulfonic acid	ND		33.0	34.3		ng/L		104	59 - 175
8:2 Fluorotelomer sulfonic acid	ND		33.3	34.9		ng/L		105	75 - 135
DONA	ND		32.8	36.3		ng/L		111	79 - 139
HFPODA	ND		34.7	37.5		ng/L		108	51 - 173
9Cl-PF3ONS	ND		32.4	34.3		ng/L		106	75 - 135
11Cl-PF3OUdS	ND	*+	32.8	34.2		ng/L		104	54 - 114
FHxSA	ND		34.7	42.0		ng/L		121	70 - 130
FBSA	ND		34.7	43.1		ng/L		124	70 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		32.1	34.7		ng/L		108	70 - 130
Total NEtFOSAA	ND		34.7	36.2		ng/L		104	76 - 136
Total PFOA	ND		34.7	35.7		ng/L		103	70 - 130
Total PFHxS	ND		31.7	32.0		ng/L		101	66 - 126
Total PFOS	ND		32.3	33.2		ng/L		103	70 - 130
Total NMeFOSAA	ND		34.7	36.9		ng/L		106	76 - 136

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*87*		*25 - 150*
13C5 PFPeA	*100*		*25 - 150*
13C2 PFHxA	*91*		*25 - 150*
13C4 PFHpA	*101*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*97*		*25 - 150*
13C2 PFDA	*92*		*25 - 150*
13C2 PFUnA	*99*		*25 - 150*
13C2 PFDoA	*80*		*25 - 150*
13C2 PFTeDA	*103*		*25 - 150*
13C3 PFBS	*98*		*25 - 150*
18O2 PFHxS	*99*		*25 - 150*
13C4 PFOS	*93*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*93*		*25 - 150*
d5-NEtFOSAA	*99*		*25 - 150*
M2-4:2 FTS	*44*		*25 - 150*
M2-6:2 FTS	*41*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-45 MS
Matrix: Water
Analysis Batch: 598436

Client Sample ID: DW 220610 1030 WPS
Prep Type: Total/NA
Prep Batch: 597666

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-8:2 FTS	*95*		*25 - 150*
13C3 HFPO-DA	*93*		*25 - 150*

Lab Sample ID: 240-168146-45 MSD
Matrix: Water
Analysis Batch: 598436

Client Sample ID: DW 220610 1030 WPS
Prep Type: Total/NA
Prep Batch: 597666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		35.6	38.5		ng/L		108	76 - 136	5	30
Perfluoropentanoic acid	ND		35.6	36.3		ng/L		102	71 - 131	8	30
Perfluorohexanoic acid	ND		35.6	32.5		ng/L		91	73 - 133	8	30
Perfluoroheptanoic acid	ND		35.6	36.1		ng/L		101	72 - 132	2	30
Perfluorononanoic acid	ND		35.6	35.0		ng/L		98	75 - 135	0	30
Perfluorodecanoic acid	ND		35.6	35.6		ng/L		100	76 - 136	2	30
Perfluoroundecanoic acid	ND		35.6	33.9		ng/L		95	68 - 128	4	30
Perfluorododecanoic acid	ND		35.6	37.1		ng/L		104	71 - 131	1	30
Perfluorotridecanoic acid	ND		35.6	38.5		ng/L		108	71 - 131	2	30
Perfluorotetradecanoic acid	ND		35.6	35.3		ng/L		99	70 - 130	1	30
Perfluorobutanesulfonic acid	ND		31.6	31.5		ng/L		99	67 - 127	4	30
Perfluoropentanesulfonic acid	ND		33.4	33.4		ng/L		100	66 - 126	3	30
Perfluoroheptanesulfonic acid	ND		34.0	36.1		ng/L		106	76 - 136	2	30
Perfluorononanesulfonic acid	ND		34.3	32.9		ng/L		96	75 - 135	0	30
Perfluorodecanesulfonic acid	ND		34.4	30.5		ng/L		89	71 - 131	1	30
Perfluorooctanesulfonamide	ND		35.6	36.5		ng/L		103	73 - 133	1	30
4:2 Fluorotelomer sulfonic acid	ND		33.4	34.0		ng/L		102	79 - 139	9	30
6:2 Fluorotelomer sulfonic acid	ND		33.9	35.7		ng/L		105	59 - 175	4	30
8:2 Fluorotelomer sulfonic acid	ND		34.2	34.7		ng/L		101	75 - 135	1	30
DONA	ND		33.6	34.8		ng/L		103	79 - 139	4	30
HFPODA	ND		35.6	35.2		ng/L		99	51 - 173	6	30
9Cl-PF3ONS	ND		33.3	34.8		ng/L		105	75 - 135	1	30
11Cl-PF3OUdS	ND	*+	33.6	35.3		ng/L		105	54 - 114	3	30
FHxSA	ND		35.6	41.2		ng/L		116	70 - 130	2	30
FBSA	ND		35.6	42.5		ng/L		119	70 - 130	1	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		32.9	35.4		ng/L		108	70 - 130	2	30
Total NEtFOSAA	ND		35.6	37.3		ng/L		105	76 - 136	3	30
Total PFOA	ND		35.6	36.1		ng/L		101	70 - 130	1	30
Total PFHxS	ND		32.5	32.3		ng/L		99	66 - 126	1	30
Total PFOS	ND		33.1	33.3		ng/L		100	70 - 130	0	30
Total NMeFOSAA	ND		35.6	35.5		ng/L		100	76 - 136	4	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*86*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFHxA	*98*		*25 - 150*
13C4 PFHpA	*99*		*25 - 150*
13C4 PFOA	*92*		*25 - 150*
13C5 PFNA	*95*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168146-45 MSD
Matrix: Water
Analysis Batch: 598436

Client Sample ID: DW 220610 1030 WPS
Prep Type: Total/NA
Prep Batch: 597666

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C2 PFUnA	*100*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
13C2 PFTeDA	*103*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
18O2 PFHxS	*99*		*25 - 150*
13C4 PFOS	*92*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*95*		*25 - 150*
d5-NEtFOSAA	*102*		*25 - 150*
M2-4:2 FTS	*31*		*25 - 150*
M2-6:2 FTS	*39*		*25 - 150*
M2-8:2 FTS	*92*		*25 - 150*
13C3 HFPO-DA	*94*		*25 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 240-168146-4 DU
Matrix: Solid
Analysis Batch: 595610

Client Sample ID: SO 220606 1755 WPS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	21.3			21.6		%				2	20
Percent Solids	78.7			78.4		%				0.4	20

Lab Sample ID: 240-168146-24 DU
Matrix: Solid
Analysis Batch: 595611

Client Sample ID: SO 220608 1040 WPS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.2			14.8		%				5	20
Percent Solids	85.8			85.2		%				0.8	20

QC Association Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

LCMS

Prep Batch: 596260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-1	SO 220606 1650 WPS	Total/NA	Solid	SHAKE	
240-168146-2	SO 220606 1700 WPS	Total/NA	Solid	SHAKE	
240-168146-3	SO 220606 1745 WPS	Total/NA	Solid	SHAKE	
240-168146-4	SO 220606 1755 WPS	Total/NA	Solid	SHAKE	
240-168146-5	SO 220606 1840 WPS	Total/NA	Solid	SHAKE	
240-168146-6	SO 220606 1850 WPS	Total/NA	Solid	SHAKE	
240-168146-7	SO 220606 1850 WPS-FD	Total/NA	Solid	SHAKE	
240-168146-8	SO 220607 0955 WPS	Total/NA	Solid	SHAKE	
240-168146-9	SO 220607 1645 WPS	Total/NA	Solid	SHAKE	
240-168146-10	SO 2206071655 WPS	Total/NA	Solid	SHAKE	
240-168146-11	SO 220607 1730 WPS	Total/NA	Solid	SHAKE	
240-168146-12	SO 220607 1735 WPS	Total/NA	Solid	SHAKE	
240-168146-13	SO 220607 1810 WPS	Total/NA	Solid	SHAKE	
240-168146-14	SO 220607 1810 WPS-FD	Total/NA	Solid	SHAKE	
MB 320-596260/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-596260/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
240-168146-14 MS	SO 220607 1810 WPS-FD	Total/NA	Solid	SHAKE	
240-168146-14 MSD	SO 220607 1810 WPS-FD	Total/NA	Solid	SHAKE	

Prep Batch: 596270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-19	SO 220608 0940 WPS	Total/NA	Solid	SHAKE	
240-168146-20	SO 220608 0945 WPS	Total/NA	Solid	SHAKE	
240-168146-21	SO 220608 1000 WPS	Total/NA	Solid	SHAKE	
240-168146-22	SO 220608 1005 WPS	Total/NA	Solid	SHAKE	
240-168146-23	SO 220608 1030 WPS	Total/NA	Solid	SHAKE	
240-168146-24	SO 220608 1040 WPS	Total/NA	Solid	SHAKE	
240-168146-25	SO 220608 1300 WPS	Total/NA	Solid	SHAKE	
240-168146-26	SO 220608 1305 WPS	Total/NA	Solid	SHAKE	
240-168146-27	SO 220608 1325 WPS	Total/NA	Solid	SHAKE	
240-168146-28	SO 220608 1345 WPS	Total/NA	Solid	SHAKE	
240-168146-29	SO 220608 1425 WPS	Total/NA	Solid	SHAKE	
240-168146-30	SO 220608 1440 WPS	Total/NA	Solid	SHAKE	
240-168146-31	SO 220608 1550 WPS	Total/NA	Solid	SHAKE	
240-168146-32	SO 220608 1600 WPS	Total/NA	Solid	SHAKE	
MB 320-596270/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-596270/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
240-168146-32 MS	SO 220608 1600 WPS	Total/NA	Solid	SHAKE	
240-168146-32 MSD	SO 220608 1600 WPS	Total/NA	Solid	SHAKE	

Prep Batch: 597522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-33	SO 220608 1745 WPS	Total/NA	Solid	SHAKE	
240-168146-34	SO 220608 1755 WPS	Total/NA	Solid	SHAKE	
240-168146-35	SO 220608 1645 WPS	Total/NA	Solid	SHAKE	
240-168146-36	SO 220608 1655 WPS	Total/NA	Solid	SHAKE	
240-168146-37	SO 220608 1830 WPS	Total/NA	Solid	SHAKE	
240-168146-38	SO 220608 1845 WPS	Total/NA	Solid	SHAKE	
240-168146-39	SO 220608 1900 WPS	Total/NA	Solid	SHAKE	
240-168146-40	SO 220608 1910 WPS	Total/NA	Solid	SHAKE	
240-168146-41	SO 220608 1655 WPS-FD	Total/NA	Solid	SHAKE	

LCMS (Continued)

Prep Batch: 597522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-597522/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-597522/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
240-168146-41 MS	SO 220608 1655 WPS-FD	Total/NA	Solid	SHAKE	
240-168146-41 MSD	SO 220608 1655 WPS-FD	Total/NA	Solid	SHAKE	

Prep Batch: 597661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-15	FB 220606 1430 WPS	Total/NA	Water	3535	
240-168146-16	EB 220606 1910 WPS	Total/NA	Water	3535	
240-168146-17	FB 220607 1100 WPS	Total/NA	Water	3535	
240-168146-18	EB 220607 1900 WPS	Total/NA	Water	3535	
240-168146-42	FB 220608 0840 WPS	Total/NA	Water	3535	
240-168146-43	EB 220608 1930 WPS	Total/NA	Water	3535	
240-168146-47	TB- 220610 1035 WPS	Total/NA	Water	3535	
MB 320-597661/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-597661/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-597661/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 597666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-44	FB 220610 1025 WPS	Total/NA	Water	3535	
240-168146-45	DW 220610 1030 WPS	Total/NA	Water	3535	
240-168146-46	DW 220610 1030 WPS-FD	Total/NA	Water	3535	
MB 320-597666/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-597666/2-A	Lab Control Sample	Total/NA	Water	3535	
240-168146-45 MS	DW 220610 1030 WPS	Total/NA	Water	3535	
240-168146-45 MSD	DW 220610 1030 WPS	Total/NA	Water	3535	

Analysis Batch: 598407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-19	SO 220608 0940 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-20	SO 220608 0945 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-21	SO 220608 1000 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-22	SO 220608 1005 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-23	SO 220608 1030 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-24	SO 220608 1040 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-25	SO 220608 1300 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-26	SO 220608 1305 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-27	SO 220608 1325 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-28	SO 220608 1345 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-29	SO 220608 1425 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-30	SO 220608 1440 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-31	SO 220608 1550 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-32	SO 220608 1600 WPS	Total/NA	Solid	B/L/T PFAS	596270
MB 320-596270/1-A	Method Blank	Total/NA	Solid	B/L/T PFAS	596270
LCS 320-596270/2-A	Lab Control Sample	Total/NA	Solid	B/L/T PFAS	596270
240-168146-32 MS	SO 220608 1600 WPS	Total/NA	Solid	B/L/T PFAS	596270
240-168146-32 MSD	SO 220608 1600 WPS	Total/NA	Solid	B/L/T PFAS	596270

LCMS

Analysis Batch: 598420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-33	SO 220608 1745 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-34	SO 220608 1755 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-35	SO 220608 1645 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-36	SO 220608 1655 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-37	SO 220608 1830 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-38	SO 220608 1845 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-39	SO 220608 1900 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-40	SO 220608 1910 WPS	Total/NA	Solid	B/L/T PFAS	597522
240-168146-41	SO 220608 1655 WPS-FD	Total/NA	Solid	B/L/T PFAS	597522
MB 320-597522/1-A	Method Blank	Total/NA	Solid	B/L/T PFAS	597522
LCS 320-597522/2-A	Lab Control Sample	Total/NA	Solid	B/L/T PFAS	597522
240-168146-41 MS	SO 220608 1655 WPS-FD	Total/NA	Solid	B/L/T PFAS	597522
240-168146-41 MSD	SO 220608 1655 WPS-FD	Total/NA	Solid	B/L/T PFAS	597522

Analysis Batch: 598425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-15	FB 220606 1430 WPS	Total/NA	Water	B/L/T PFAS	597661
240-168146-16	EB 220606 1910 WPS	Total/NA	Water	B/L/T PFAS	597661
240-168146-18	EB 220607 1900 WPS	Total/NA	Water	B/L/T PFAS	597661
240-168146-42	FB 220608 0840 WPS	Total/NA	Water	B/L/T PFAS	597661
240-168146-43	EB 220608 1930 WPS	Total/NA	Water	B/L/T PFAS	597661
240-168146-47	TB- 220610 1035 WPS	Total/NA	Water	B/L/T PFAS	597661
MB 320-597661/1-A	Method Blank	Total/NA	Water	B/L/T PFAS	597661
LCS 320-597661/2-A	Lab Control Sample	Total/NA	Water	B/L/T PFAS	597661
LCSD 320-597661/3-A	Lab Control Sample Dup	Total/NA	Water	B/L/T PFAS	597661

Analysis Batch: 598427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-1	SO 220606 1650 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-2	SO 220606 1700 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-3	SO 220606 1745 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-4	SO 220606 1755 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-5	SO 220606 1840 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-6	SO 220606 1850 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-7	SO 220606 1850 WPS-FD	Total/NA	Solid	B/L/T PFAS	596260
240-168146-8	SO 220607 0955 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-9	SO 220607 1645 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-10	SO 2206071655 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-11	SO 220607 1730 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-12	SO 220607 1735 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-13	SO 220607 1810 WPS	Total/NA	Solid	B/L/T PFAS	596260
240-168146-14	SO 220607 1810 WPS-FD	Total/NA	Solid	B/L/T PFAS	596260
MB 320-596260/1-A	Method Blank	Total/NA	Solid	B/L/T PFAS	596260
LCS 320-596260/2-A	Lab Control Sample	Total/NA	Solid	B/L/T PFAS	596260
240-168146-14 MS	SO 220607 1810 WPS-FD	Total/NA	Solid	B/L/T PFAS	596260
240-168146-14 MSD	SO 220607 1810 WPS-FD	Total/NA	Solid	B/L/T PFAS	596260

Analysis Batch: 598436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-44	FB 220610 1025 WPS	Total/NA	Water	B/L/T PFAS	597666
240-168146-45	DW 220610 1030 WPS	Total/NA	Water	B/L/T PFAS	597666

LCMS (Continued)

Analysis Batch: 598436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-46	DW 220610 1030 WPS-FD	Total/NA	Water	B/L/T PFAS	597666
MB 320-597666/1-A	Method Blank	Total/NA	Water	B/L/T PFAS	597666
LCS 320-597666/2-A	Lab Control Sample	Total/NA	Water	B/L/T PFAS	597666
240-168146-45 MS	DW 220610 1030 WPS	Total/NA	Water	B/L/T PFAS	597666
240-168146-45 MSD	DW 220610 1030 WPS	Total/NA	Water	B/L/T PFAS	597666

Analysis Batch: 599301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-17	FB 220607 1100 WPS	Total/NA	Water	B/L/T PFAS	597661

General Chemistry

Analysis Batch: 595610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-1	SO 220606 1650 WPS	Total/NA	Solid	Moisture	
240-168146-2	SO 220606 1700 WPS	Total/NA	Solid	Moisture	
240-168146-3	SO 220606 1745 WPS	Total/NA	Solid	Moisture	
240-168146-4	SO 220606 1755 WPS	Total/NA	Solid	Moisture	
240-168146-5	SO 220606 1840 WPS	Total/NA	Solid	Moisture	
240-168146-6	SO 220606 1850 WPS	Total/NA	Solid	Moisture	
240-168146-7	SO 220606 1850 WPS-FD	Total/NA	Solid	Moisture	
240-168146-8	SO 220607 0955 WPS	Total/NA	Solid	Moisture	
240-168146-9	SO 220607 1645 WPS	Total/NA	Solid	Moisture	
240-168146-10	SO 2206071655 WPS	Total/NA	Solid	Moisture	
240-168146-11	SO 220607 1730 WPS	Total/NA	Solid	Moisture	
240-168146-12	SO 220607 1735 WPS	Total/NA	Solid	Moisture	
240-168146-13	SO 220607 1810 WPS	Total/NA	Solid	Moisture	
240-168146-14	SO 220607 1810 WPS-FD	Total/NA	Solid	Moisture	
240-168146-19	SO 220608 0940 WPS	Total/NA	Solid	Moisture	
240-168146-20	SO 220608 0945 WPS	Total/NA	Solid	Moisture	
240-168146-21	SO 220608 1000 WPS	Total/NA	Solid	Moisture	
240-168146-22	SO 220608 1005 WPS	Total/NA	Solid	Moisture	
240-168146-23	SO 220608 1030 WPS	Total/NA	Solid	Moisture	
240-168146-4 DU	SO 220606 1755 WPS	Total/NA	Solid	Moisture	

Analysis Batch: 595611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-24	SO 220608 1040 WPS	Total/NA	Solid	Moisture	
240-168146-25	SO 220608 1300 WPS	Total/NA	Solid	Moisture	
240-168146-26	SO 220608 1305 WPS	Total/NA	Solid	Moisture	
240-168146-27	SO 220608 1325 WPS	Total/NA	Solid	Moisture	
240-168146-28	SO 220608 1345 WPS	Total/NA	Solid	Moisture	
240-168146-29	SO 220608 1425 WPS	Total/NA	Solid	Moisture	
240-168146-30	SO 220608 1440 WPS	Total/NA	Solid	Moisture	
240-168146-31	SO 220608 1550 WPS	Total/NA	Solid	Moisture	
240-168146-32	SO 220608 1600 WPS	Total/NA	Solid	Moisture	
240-168146-33	SO 220608 1745 WPS	Total/NA	Solid	Moisture	
240-168146-34	SO 220608 1755 WPS	Total/NA	Solid	Moisture	
240-168146-35	SO 220608 1645 WPS	Total/NA	Solid	Moisture	
240-168146-36	SO 220608 1655 WPS	Total/NA	Solid	Moisture	
240-168146-37	SO 220608 1830 WPS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 595611 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168146-38	SO 220608 1845 WPS	Total/NA	Solid	Moisture	
240-168146-39	SO 220608 1900 WPS	Total/NA	Solid	Moisture	
240-168146-40	SO 220608 1910 WPS	Total/NA	Solid	Moisture	
240-168146-41	SO 220608 1655 WPS-FD	Total/NA	Solid	Moisture	
240-168146-24 DU	SO 220608 1040 WPS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1650 WPS
Lab Sample ID: 240-168146-1
Date Collected: 06/06/22 16:50
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220606 1650 WPS
Lab Sample ID: 240-168146-1
Date Collected: 06/06/22 16:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 04:52	D1R	TAL SAC

Client Sample ID: SO 220606 1700 WPS
Lab Sample ID: 240-168146-2
Date Collected: 06/06/22 17:00
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220606 1700 WPS
Lab Sample ID: 240-168146-2
Date Collected: 06/06/22 17:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 05:15	D1R	TAL SAC

Client Sample ID: SO 220606 1745 WPS
Lab Sample ID: 240-168146-3
Date Collected: 06/06/22 17:45
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220606 1745 WPS
Lab Sample ID: 240-168146-3
Date Collected: 06/06/22 17:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 05:38	D1R	TAL SAC

Client Sample ID: SO 220606 1755 WPS
Lab Sample ID: 240-168146-4
Date Collected: 06/06/22 17:55
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220606 1755 WPS
Lab Sample ID: 240-168146-4

Date Collected: 06/06/22 17:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 06:00	D1R	TAL SAC

Client Sample ID: SO 220606 1840 WPS
Lab Sample ID: 240-168146-5

Date Collected: 06/06/22 18:40
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220606 1840 WPS
Lab Sample ID: 240-168146-5

Date Collected: 06/06/22 18:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 06:23	D1R	TAL SAC

Client Sample ID: SO 220606 1850 WPS
Lab Sample ID: 240-168146-6

Date Collected: 06/06/22 18:50
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220606 1850 WPS
Lab Sample ID: 240-168146-6

Date Collected: 06/06/22 18:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 06:45	D1R	TAL SAC

Client Sample ID: SO 220606 1850 WPS-FD
Lab Sample ID: 240-168146-7

Date Collected: 06/06/22 18:50
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168146-1

Client Sample ID: SO 220606 1850 WPS-FD
Lab Sample ID: 240-168146-7
Date Collected: 06/06/22 18:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 07:08	D1R	TAL SAC

Client Sample ID: SO 220607 0955 WPS
Lab Sample ID: 240-168146-8
Date Collected: 06/07/22 09:55
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220607 0955 WPS
Lab Sample ID: 240-168146-8
Date Collected: 06/07/22 09:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 07:31	D1R	TAL SAC

Client Sample ID: SO 220607 1645 WPS
Lab Sample ID: 240-168146-9
Date Collected: 06/07/22 16:45
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220607 1645 WPS
Lab Sample ID: 240-168146-9
Date Collected: 06/07/22 16:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 08:38	D1R	TAL SAC

Client Sample ID: SO 2206071655 WPS
Lab Sample ID: 240-168146-10
Date Collected: 06/07/22 16:55
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 2206071655 WPS
Lab Sample ID: 240-168146-10
Date Collected: 06/07/22 16:55
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 09:01	D1R	TAL SAC

Client Sample ID: SO 220607 1730 WPS
Lab Sample ID: 240-168146-11
Date Collected: 06/07/22 17:30
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220607 1730 WPS
Lab Sample ID: 240-168146-11
Date Collected: 06/07/22 17:30
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 09:24	D1R	TAL SAC

Client Sample ID: SO 220607 1735 WPS
Lab Sample ID: 240-168146-12
Date Collected: 06/07/22 17:35
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220607 1735 WPS
Lab Sample ID: 240-168146-12
Date Collected: 06/07/22 17:35
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 09:46	D1R	TAL SAC

Client Sample ID: SO 220607 1810 WPS
Lab Sample ID: 240-168146-13
Date Collected: 06/07/22 18:10
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220607 1810 WPS
Lab Sample ID: 240-168146-13

Date Collected: 06/07/22 18:10
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 10:09	D1R	TAL SAC

Client Sample ID: SO 220607 1810 WPS-FD
Lab Sample ID: 240-168146-14

Date Collected: 06/07/22 18:10
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220607 1810 WPS-FD
Lab Sample ID: 240-168146-14

Date Collected: 06/07/22 18:10
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596260	06/17/22 12:10	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598427	06/26/22 10:32	D1R	TAL SAC

Client Sample ID: FB 220606 1430 WPS
Lab Sample ID: 240-168146-15

Date Collected: 06/06/22 14:30
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598425	06/25/22 22:26	D1R	TAL SAC

Client Sample ID: EB 220606 1910 WPS
Lab Sample ID: 240-168146-16

Date Collected: 06/06/22 19:10
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598425	06/25/22 22:49	D1R	TAL SAC

Client Sample ID: FB 220607 1100 WPS
Lab Sample ID: 240-168146-17

Date Collected: 06/07/22 11:00
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	599301	06/29/22 16:11	AF	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB 220607 1900 WPS
Lab Sample ID: 240-168146-18

Date Collected: 06/07/22 19:00
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598425	06/25/22 23:34	D1R	TAL SAC

Client Sample ID: SO 220608 0940 WPS
Lab Sample ID: 240-168146-19

Date Collected: 06/08/22 09:40
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 0940 WPS
Lab Sample ID: 240-168146-19

Date Collected: 06/08/22 09:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 01:42	D1R	TAL SAC

Client Sample ID: SO 220608 0945 WPS
Lab Sample ID: 240-168146-20

Date Collected: 06/08/22 09:45
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 0945 WPS
Lab Sample ID: 240-168146-20

Date Collected: 06/08/22 09:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 02:05	D1R	TAL SAC

Client Sample ID: SO 220608 1000 WPS
Lab Sample ID: 240-168146-21

Date Collected: 06/08/22 10:00
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1000 WPS — Lab Sample ID: 240-168146-21

Date Collected: 06/08/22 10:00 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 02:28	D1R	TAL SAC

Client Sample ID: SO 220608 1005 WPS — Lab Sample ID: 240-168146-22

Date Collected: 06/08/22 10:05 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1005 WPS — Lab Sample ID: 240-168146-22

Date Collected: 06/08/22 10:05 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 02:50	D1R	TAL SAC

Client Sample ID: SO 220608 1030 WPS — Lab Sample ID: 240-168146-23

Date Collected: 06/08/22 10:30 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595610	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1030 WPS — Lab Sample ID: 240-168146-23

Date Collected: 06/08/22 10:30 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 03:13	D1R	TAL SAC

Client Sample ID: SO 220608 1040 WPS — Lab Sample ID: 240-168146-24

Date Collected: 06/08/22 10:40 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1040 WPS — Lab Sample ID: 240-168146-24

Date Collected: 06/08/22 10:40 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 03:35	D1R	TAL SAC

Client Sample ID: SO 220608 1300 WPS — Lab Sample ID: 240-168146-25

Date Collected: 06/08/22 13:00 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1300 WPS — Lab Sample ID: 240-168146-25

Date Collected: 06/08/22 13:00 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 87.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 03:58	D1R	TAL SAC

Client Sample ID: SO 220608 1305 WPS — Lab Sample ID: 240-168146-26

Date Collected: 06/08/22 13:05 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1305 WPS — Lab Sample ID: 240-168146-26

Date Collected: 06/08/22 13:05 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 04:21	D1R	TAL SAC

Client Sample ID: SO 220608 1325 WPS — Lab Sample ID: 240-168146-27

Date Collected: 06/08/22 13:25 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1325 WPS
Lab Sample ID: 240-168146-27

Date Collected: 06/08/22 13:25
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 05:28	D1R	TAL SAC

Client Sample ID: SO 220608 1345 WPS
Lab Sample ID: 240-168146-28

Date Collected: 06/08/22 13:45
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1345 WPS
Lab Sample ID: 240-168146-28

Date Collected: 06/08/22 13:45
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 05:51	D1R	TAL SAC

Client Sample ID: SO 220608 1425 WPS
Lab Sample ID: 240-168146-29

Date Collected: 06/08/22 14:25
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1425 WPS
Lab Sample ID: 240-168146-29

Date Collected: 06/08/22 14:25
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 06:14	D1R	TAL SAC

Client Sample ID: SO 220608 1440 WPS
Lab Sample ID: 240-168146-30

Date Collected: 06/08/22 14:40
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1440 WPS
Lab Sample ID: 240-168146-30

Date Collected: 06/08/22 14:40
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 06:36	D1R	TAL SAC

Client Sample ID: SO 220608 1550 WPS
Lab Sample ID: 240-168146-31

Date Collected: 06/08/22 15:50
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1550 WPS
Lab Sample ID: 240-168146-31

Date Collected: 06/08/22 15:50
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 06:59	D1R	TAL SAC

Client Sample ID: SO 220608 1600 WPS
Lab Sample ID: 240-168146-32

Date Collected: 06/08/22 16:00
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1600 WPS
Lab Sample ID: 240-168146-32

Date Collected: 06/08/22 16:00
Matrix: Solid
Date Received: 06/11/22 10:00
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			596270	06/17/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598407	06/25/22 07:22	D1R	TAL SAC

Client Sample ID: SO 220608 1745 WPS
Lab Sample ID: 240-168146-33

Date Collected: 06/08/22 17:45
Matrix: Solid
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1745 WPS — Lab Sample ID: 240-168146-33

Date Collected: 06/08/22 17:45 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 15:17	D1R	TAL SAC

Client Sample ID: SO 220608 1755 WPS — Lab Sample ID: 240-168146-34

Date Collected: 06/08/22 17:55 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1755 WPS — Lab Sample ID: 240-168146-34

Date Collected: 06/08/22 17:55 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 69.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 15:39	D1R	TAL SAC

Client Sample ID: SO 220608 1645 WPS — Lab Sample ID: 240-168146-35

Date Collected: 06/08/22 16:45 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1645 WPS — Lab Sample ID: 240-168146-35

Date Collected: 06/08/22 16:45 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 16:02	D1R	TAL SAC

Client Sample ID: SO 220608 1655 WPS — Lab Sample ID: 240-168146-36

Date Collected: 06/08/22 16:55 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1655 WPS — Lab Sample ID: 240-168146-36

Date Collected: 06/08/22 16:55 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 80.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 16:25	D1R	TAL SAC

Client Sample ID: SO 220608 1830 WPS — Lab Sample ID: 240-168146-37

Date Collected: 06/08/22 18:30 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1830 WPS — Lab Sample ID: 240-168146-37

Date Collected: 06/08/22 18:30 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 82.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 16:47	D1R	TAL SAC

Client Sample ID: SO 220608 1845 WPS — Lab Sample ID: 240-168146-38

Date Collected: 06/08/22 18:45 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1845 WPS — Lab Sample ID: 240-168146-38

Date Collected: 06/08/22 18:45 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 72.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 17:10	D1R	TAL SAC

Client Sample ID: SO 220608 1900 WPS — Lab Sample ID: 240-168146-39

Date Collected: 06/08/22 19:00 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SO 220608 1900 WPS — Lab Sample ID: 240-168146-39

Date Collected: 06/08/22 19:00 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 17:32	D1R	TAL SAC

Client Sample ID: SO 220608 1910 WPS — Lab Sample ID: 240-168146-40

Date Collected: 06/08/22 19:10 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1910 WPS — Lab Sample ID: 240-168146-40

Date Collected: 06/08/22 19:10 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 79.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 17:55	D1R	TAL SAC

Client Sample ID: SO 220608 1655 WPS-FD — Lab Sample ID: 240-168146-41

Date Collected: 06/08/22 16:55 — **Matrix: Solid**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	595611	06/15/22 11:06	TCS	TAL SAC

Client Sample ID: SO 220608 1655 WPS-FD — Lab Sample ID: 240-168146-41

Date Collected: 06/08/22 16:55 — **Matrix: Solid**
Date Received: 06/11/22 10:00 — **Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			597522	06/21/22 19:11	FX	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598420	06/25/22 19:03	D1R	TAL SAC

Client Sample ID: FB 220608 0840 WPS — Lab Sample ID: 240-168146-42

Date Collected: 06/08/22 08:40 — **Matrix: Water**
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598425	06/25/22 23:57	D1R	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB 220608 1930 WPS
Lab Sample ID: 240-168146-43

Date Collected: 06/08/22 19:30
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598425	06/26/22 00:20	D1R	TAL SAC

Client Sample ID: FB 220610 1025 WPS
Lab Sample ID: 240-168146-44

Date Collected: 06/10/22 10:25
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597666	06/22/22 13:01	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598436	06/26/22 14:18	D1R	TAL SAC

Client Sample ID: DW 220610 1030 WPS
Lab Sample ID: 240-168146-45

Date Collected: 06/10/22 10:30
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597666	06/22/22 13:01	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598436	06/26/22 14:40	D1R	TAL SAC

Client Sample ID: DW 220610 1030 WPS-FD
Lab Sample ID: 240-168146-46

Date Collected: 06/10/22 10:30
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597666	06/22/22 13:01	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598436	06/26/22 15:48	D1R	TAL SAC

Client Sample ID: TB- 220610 1035 WPS
Lab Sample ID: 240-168146-47

Date Collected: 06/10/22 10:35
Matrix: Water
Date Received: 06/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			597661	06/22/22 12:54	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	598425	06/26/22 00:42	D1R	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

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	03-17-24
Kansas	NELAP	E-10375	10-31-22
Louisiana	NELAP	01944	06-30-22
Louisiana (All)	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	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
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.

1.7/1.7 3.4/3.4 2.6/2.6

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

Grand Rapids 240508

eurofins Environment Testing America

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.1
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 1 of 6
Company: AECOM	PWSID:			Job #:
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs wo/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
S0220606165ØWPS	Ø6-Ø6-22	165Ø	G	Solid			X	X												2	SBØØ3 Ø.5-1.Ø'
S0220606170ØWPS	Ø6-Ø6-22	17ØØ	G	Solid			X	X												2	SBØØ3 2.Ø-2.5'
S0220606174 5WPS	Ø6-Ø6-22	1745	G	Solid			X	X												2	SBØØ2 Ø.5-1.Ø
S0220606175 5WPS	Ø6-Ø6-22	1755	G	Solid			X	X												2	SBØØ2 2.Ø-3.Ø'
S0220606184ØWPS	Ø6-Ø6-22	184Ø	G	Solid			X	X												2	MWØØ3 Ø.5-1.Ø'
S0220606185ØWPS	Ø6-Ø6-22	185Ø	G	Solid			X	X												2	MWØØ3 2.Ø-2.5'
S0220606185ØWPS-FD	Ø6-Ø6-22	185Ø	G	Solid			X	X												2	MWØØ3 2.Ø-2.5'
S0220607Ø955WPS	Ø6-Ø7-22	Ø955	G	Solid			X	X												2	MWØØ4 Ø.5-1.Ø'
S0220607164 5WPS	Ø6-Ø7-22	1645	G	Solid			X	X												2	MWØØ7 Ø.5-1.Ø'
S0220607165 5WPS	Ø6-Ø7-22	1655	G	Solid			X	X												2	MWØØ7 2.Ø-2.5'
S0220607173ØWPS	Ø6-Ø7-22	173Ø	G	Solid			X	X												2	SBØØ4 Ø.5-1.Ø'

240-168146 Chain of Custody

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

Sample Disposal (A fee ma ples are retained longer than 1 month)
☐ Return To Client ☐ 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
WPS Stambaugh	6-10-22 1455	AECOM	[illegible]	6-10-22 3:00	TAL
Fed Ex	6-10-22 3:15	TAL	M. A. A.	6/10/22 10:00	EETNC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 04/08/2021

Eurofins Canton
180 S Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Grand Rapids 240508

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.2
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin	Page: Page 2 of 13 6
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs wo/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
S022Ø6Ø71735WPS	Ø6-Ø7-22	1735	G	Solid			X	X												2	SBØØ4 2.Ø-2.5'
S022Ø6Ø7181ØWPS	Ø6-Ø7-22	181Ø	G	Solid			X	X												2	MWØØ8 Ø.5-1.Ø'
S022Ø6Ø7181ØWPS-FD	Ø6-Ø7-22	181Ø	G	Solid			X	X												2	MWØØ8 Ø.5-1.Ø'
FB22Ø6Ø6143ØWPS	Ø6-Ø6-22	1430	G	Solid				X												2	Field Blank
EB22Ø6Ø6191ØWPS	Ø6-Ø6-22	191Ø	G	Solid				X												2	Equipment Blank Hand Auger
FB22Ø6Ø711ØØWPS	Ø6-Ø7-22	11ØØ	G	Solid				X												2	Field Blank
EB22Ø6Ø719ØØWPS	Ø6-Ø7-22	19ØØ	G	Solid				X												2	Equipment Blank Hand Auger
				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, 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
Wes Stambaugh	6-10-22 1455	AECOM	[illegible]	6-10-22 3:00	TAL
Fed Ex	6-10-22 3:15	TAL	M. A. A.	6/11/22 10:00	ECTNC

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Grand Rapids 240508

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.3
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin	Page: Page 3 of 6
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs w/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
S022060809 40WPS	06-08-22	0940	G	Solid			X	X												2	SB001 0.5-1.0'
S022060809 45WPS	06-08-22	0945	G	Solid			X	X												2	SB001 1.5-2.5'
S022060810 00WPS	06-08-22	1000	G	Solid			X	X												2	MW001 0.5-1.0'
S022060810 05WPS	06-08-22	1005	G	Solid			X	X												2	MW001 2.0-3.0'
S022060810 30WPS	06-08-22	1030	G	Solid			X	X												2	MW009 0.5-1.0'
S022060810 40WPS	06-08-22	1040	G	Solid			X	X												2	MW009 2.0-2.5'
S022060813 00WPS	06-08-22	1300	G	Solid			X	X												2	SB005 0.5-1.0'
S022060813 05WPS	06-08-22	1305	G	Solid			X	X												2	SB005 2.5-3.0'
S022060813 25WPS	06-08-22	1325	G	Solid			X	X												2	SB006 0.5-1.0'
S022060813 45WPS	06-08-22	1345	G	Solid			X	X												2	SB006 2.5-3.0'
S022060814 25WPS	06-08-22	1425	G	Solid			X	X												2	SB007 0.5-1.0'

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
Wes Stambaugh	6-10-22 1455	AECOM	[illegible]	6-10-22 3:01	[illegible]
Fed Ex	6-10-22 3:15	[illegible]	M. A. A.	6/11/22 10:00	EETNC

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

240508

Client Information	Sampler: W. Stanbaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.4
Client Contact: Mike Cox	Phone: 517-234-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin	Page: Page 4 of 6
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda.	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH prcs	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH prcs	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs w/o/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
S022Q6Q8144QWPS	06-08-22	1440	G	Solid			X	X												2	SB007 2.0-2.5'
S022Q6Q8155QWPS	06-08-22	1550	G	Solid			X	X												2	SB008 0.5-1.0'
S022Q6Q8160QWPS	06-08-22	1600	G	Solid			X	X												2	SB003 2.0-3.0'
S022Q6Q81745WPS	06-08-22	1745	G	Solid			X	X												2	SB009 0.5-1.0'
S022Q6Q81755WPS	06-08-22	1755	G	Solid			X	X												2	SB009 2.5-3.0'
S022Q6Q81645WPS	06-08-22	1645	G	Solid			X	X												2	MW01Q 0.5-1.0'
S022Q6Q81655WPS	06-08-22	1655	G	Solid			X	X												2	MW01Q 2.5-3.0'
S022Q6Q81830WPS	06-08-22	1830	G	Solid			X	X												2	SB01Q 0.5-1.0'
S022Q6Q81845WPS	06-08-22	1845	G	Solid			X	X												2	SB01Q 2.5-3.0
S022Q6Q81900WPS	06-08-22	1900	G	Solid			X	X												2	SB011 0.5-1.0'
S022Q6Q81910WPS	06-08-22	1910	G	Solid			X	X												2	SB011 2.5-3.0'

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
Wes Stanbaugh	6-10-22 1455	AECOM	[illegible]	6-10-22 3:00	TAL
Fed Ex	6-10-22 3:15	TAL	M. A. A.	6/11/22 10:00	ESINC

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Grand Rapids 240508

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.13
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 13 of 16
Company: AECOM	PWSID:			Job #:
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs w/o/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	F	N	N	A	N	N	A	Y					
S022206081655WPS-FD	06-08-22	1655	G	~~Water~~ Solid			X	X												2	MW010 2.5-3.0'
FB22206080840WPS	06-08-22	0840	G	Water				X												2	Field Blank
EB22206081930WPS	06-08-22	1930	G	Water				X												2	Equipment Blank
				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
Wes Stambaugh	6-10-22 1455	AECOM	[illegible]	6-10 22 3:00	TAL
Fed Ex	6-10-22 3:15	TAL	M. [illegible]	6/11/22 10:00	EEINC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Grand Rapids

240508

Client Information	Sampler: W. Stanbaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234 12
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page 6 6 / Page 12 of 18
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OL.M03.1/4.2 VOCs wo/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sop Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
FB220610102 5WPS	06-10-22	1025	G	Water												X				2	Field Blank
~~FB~~ DW220610103 0WPS	06-10-22	1030	G	Water		X										X				6	Artesian well sample
DW220610103 0WPS-FD	06-10-22	1030	G	Water												X				2	Field Duplicate
TB220610103 5WPS	06-10-22	1035	G	Water												X					Trip Blank
				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
Wes Stanbaugh	6-10-22 1455	AECOM	[illegible]	6-10-22 3:00	NTL
Fed Ex	6-10-22 3:15	TAL	M. A. A.	6/11/22 10:00	EETNC

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153427.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 6
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168146-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 6/27/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SO 220606 1650 WPS (240-168146-1)	6/6/22	16:50 Eastern		Solid			X	X		2	
SO 220606 1700 WPS (240-168146-2)	6/6/22	17:00 Eastern		Solid			X	X		2	
SO 220606 1745 WPS (240-168146-3)	6/6/22	17:45 Eastern		Solid			X	X		2	
SO 220606 1755 WPS (240-168146-4)	6/6/22	17:55 Eastern		Solid			X	X		2	
SO 220606 1840 WPS (240-168146-5)	6/6/22	18:40 Eastern		Solid			X	X		2	
SO 220606 1850 WPS (240-168146-6)	6/6/22	18:50 Eastern		Solid			X	X		2	
SO 220606 1850 WPS-FD (240-168146-7)	6/6/22	18:50 Eastern		Solid			X	X		2	
SO 220607 0955 WPS (240-168146-8)	6/7/22	09:55 Eastern		Solid			X	X		2	
SO 220607 1645 WPS (240-168146-9)	6/7/22	16:45 Eastern		Solid			X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*		***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)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 6-13-22 11:45	Company EETNC	Received by:	Date/Time: 6/14/22 9:55	Company EETAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0c

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153427.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 6
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168146-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 6/27/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SO 2206071655 WPS (240-168146-10)	6/7/22	16:55 Eastern		Solid			X	X		2	
SO 220607 0730 WPS (240-168146-11)	6/7/22	07:30 Eastern		Solid			X	X		2	
SO 220607 1735 WPS (240-168146-12)	6/7/22	17:35 Eastern		Solid			X	X		2	
SO 220607 1810 WPS (240-168146-13)	6/7/22	18:10 Eastern		Solid			X	X		2	
SO 220607 1810 WPS-FD (240-168146-14)	6/7/22	18:10 Eastern		Solid			X	X		2	
FB 220606 1430 WPS (240-168146-15)	6/6/22	14:30 Eastern		Water					X	2	
EB 220606 1910 WPS (240-168146-16)	6/6/22	19:10 Eastern		Water					X	2	
FB 220607 1100 WPS (240-168146-17)	6/7/22	11:00 Eastern		Water					X	2	
EB 220607 1900 WPS (240-168146-18)	6/7/22	19:00 Eastern		Water					X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 6/3/22 11:45	Company: EETNC	Received by:	Date/Time: 6/4/22 9:55	Company: EETSA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.0c			

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153427.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 6
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168146-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 6/27/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SO 220608 0940 WPS (240-168146-19)	6/8/22	09:40 Eastern		Solid			X	X		2	
SO 220608 0945 WPS (240-168146-20)	6/8/22	09:45 Eastern		Solid			X	X		2	
SO 220608 1000 WPS (240-168146-21)	6/8/22	10:00 Eastern		Solid			X	X		2	
SO 220608 1005 WPS (240-168146-22)	6/8/22	10:05 Eastern		Solid			X	X		2	
SO 220608 1030 WPS (240-168146-23)	6/8/22	10:30 Eastern		Solid			X	X		2	
SO 220608 1040 WPS (240-168146-24)	6/8/22	10:40 Eastern		Solid			X	X		2	
SO 220608 1300 WPS (240-168146-25)	6/8/22	13:00 Eastern		Solid			X	X		2	
SO 220608 1305 WPS (240-168146-26)	6/8/22	13:05 Eastern		Solid			X	X		2	
SO 220608 1325 WPS (240-168146-27)	6/8/22	13:25 Eastern		Solid			X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 6/13/22 11:45	Company: EETNC	Received by:	Date/Time: 6/14/22 9:55	Company: [redacted]	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.0c			

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153427.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 4 of 6
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168146-1
Address: 880 Riverside Parkway,	Due Date Requested: 6/27/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SO 220608 1345 WPS (240-168146-28)	6/8/22	13:45 Eastern		Solid			X	X		2	
SO 220608 1425 WPS (240-168146-29)	6/8/22	14:25 Eastern		Solid			X	X		2	
SO 220608 1440 WPS (240-168146-30)	6/8/22	14:40 Eastern		Solid			X	X		2	
SO 220608 1550 WPS (240-168146-31)	6/8/22	15:50 Eastern		Solid			X	X		2	
SO 220608 1600 WPS (240-168146-32)	6/8/22	16:00 Eastern		Solid			X	X		2	
SO 220608 1745 WPS (240-168146-33)	6/8/22	17:45 Eastern		Solid			X	X		2	
SO 220608 1755 WPS (240-168146-34)	6/8/22	17:55 Eastern		Solid			X	X		2	
SO 220608 1645 WPS (240-168146-35)	6/8/22	16:45 Eastern		Solid			X	X		2	
SO 220608 1655 WPS (240-168146-36)	6/8/22	16:55 Eastern		Solid			X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/13/22 11:45	EETNC		6/14/22 9:55	EETSAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0u

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153427.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 5 of 6
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168146-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 6/27/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
Site:	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SO 220608 1830 WPS (240-168146-37)	6/8/22	18:30 Eastern		Solid			X	X		2	
SO 220608 1845 WPS (240-168146-38)	6/8/22	18:45 Eastern		Solid			X	X		2	
SO 220608 1900 WPS (240-168146-39)	6/8/22	19:00 Eastern		Solid			X	X		2	
SO 220608 1910 WPS (240-168146-40)	6/8/22	19:10 Eastern		Solid			X	X		2	
SO 220608 1655 WPS-FD (240-168146-41)	6/8/22	16:55 Eastern		Solid			X	X		2	
FB 220608 0840 WPS (240-168146-42)	6/8/22	08:40 Eastern		Water					X	2	
EB 220608 1930 WPS (240-168146-43)	6/8/22	19:30 Eastern		Water					X	2	
FB 220610 1025 WPS (240-168146-44)	6/10/22	10:25 Eastern		Water					X	2	
DW 220610 1030 WPS (240-168146-45)	6/10/22	10:30 Eastern		Water					X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6-13-22 11:45	Company EETNC	Received by:	Date/Time: 6-14-22 9:35	Company EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and other Remarks: 3.0c		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153427.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 6 of 6
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168146-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 6/27/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DW 220610 1030 WPS (240-168146-45MS)	6/10/22	10:30 Eastern	MS	Water					X	2	
DW 220610 1030 WPS (240-168146-45MSD)	6/10/22	10:30 Eastern	MSD	Water					X	2	
DW 220610 1030 WPS-FD (240-168146-46)	6/10/22	10:30 Eastern		Water					X	2	
TB- 220610 1035 WPS (240-168146-47)	6/10/22	10:35 Eastern		Water					X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 6/13/22 1145	Company: ECINE	Received by:	Date/Time: 6.14.22 9:35	Company: EETCX	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.0u			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 240-168146-1

Login Number: 168146
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 06/14/22 03:17 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.	N/A	
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 3.0c
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

240-168146 Field Sheet

Job: _____

Tracking # : 557057040738

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-11 Corr. Factor: (+ / -) — °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal: _____

Cooler ID: 1 of 2

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: B Date: 6.14.22

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: B Date: 6.14.22

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: B Date: 6.14.22

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Sacramento Sample Receiving Notes

Place Field Sheet Label Here

Tracking # : 5770570410749

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: L-11 Corr. Factor: (+ / -) — °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: —

Cooler ID: _____

Temp Observed: 3.0 °C Corrected: 3.0 °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: B Date: 6.14.22

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: B Date: 6.14.22

Notes: _____

Trizma Lot #(s): 19310137

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: B Date: 6.14.22

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	PFTDA (25-150)	HFPODA (25-150)	C3PFBS (25-150)	PFBA (25-150)	C4PFHA (25-150)
240-168146-1	SO 220606 1650 WPS	105	103	99	115	90	95	87	93
240-168146-2	SO 220606 1700 WPS	101	94	93	111	90	89	57	91
240-168146-3	SO 220606 1745 WPS	111	110	95	98	96	98	94	100
240-168146-4	SO 220606 1755 WPS	118	118	107	108	97	106	100	100
240-168146-5	SO 220606 1840 WPS	101	102	92	102	95	95	96	95
240-168146-6	SO 220606 1850 WPS	118	117	105	106	97	100	96	100
240-168146-7	SO 220606 1850 WPS-FD	125	114	111	107	100	104	97	101
240-168146-8	SO 220607 0955 WPS	115	109	103	98	93	97	95	97
240-168146-9	SO 220607 1645 WPS	126	102	84	81	96	97	97	95
240-168146-10	SO 2206071655 WPS	105	103	86	89	96	99	100	96
240-168146-11	SO 220607 1730 WPS	140	116	107	101	98	101	101	100
240-168146-12	SO 220607 1735 WPS	117	122	116	101	97	105	86	100
240-168146-13	SO 220607 1810 WPS	124	120	107	108	97	103	96	100
240-168146-14	SO 220607 1810 WPS-FD	122	113	105	102	95	97	59	97
240-168146-14 MS	SO 220607 1810 WPS-FD	126	118	112	109	93	101	28	100
240-168146-14 MSD	SO 220607 1810 WPS-FD	110	109	85	98	92	94	93	95
240-168146-19	SO 220608 0940 WPS	117	112	101	104	94	98	96	98
240-168146-20	SO 220608 0945 WPS	117	115	97	104	98	95	100	100
240-168146-21	SO 220608 1000 WPS	118	111	105	48	100	97	69	97
240-168146-22	SO 220608 1005 WPS	114	111	108	103	95	98	72	97
240-168146-23	SO 220608 1030 WPS	119	114	99	98	99	98	96	99
240-168146-24	SO 220608 1040 WPS	111	112	104	104	92	97	92	96
240-168146-25	SO 220608 1300 WPS	103	103	95	101	89	89	89	91
240-168146-26	SO 220608 1305 WPS	99	93	90	102	86	88	88	90
240-168146-27	SO 220608 1325 WPS	108	101	97	104	91	90	90	93
240-168146-28	SO 220608 1345 WPS	104	95	89	109	92	88	88	91
240-168146-29	SO 220608 1425 WPS	115	104	102	112	98	93	96	97
240-168146-30	SO 220608 1440 WPS	95	97	92	113	90	89	87	89
240-168146-31	SO 220608 1550 WPS	93	105	99	106	91	88	47	93
240-168146-32	SO 220608 1600 WPS	100	97	87	95	87	83	84	85
240-168146-32 MS	SO 220608 1600 WPS	99	101	88	104	90	89	87	92
240-168146-32 MSD	SO 220608 1600 WPS	104	98	96	111	90	90	89	94
240-168146-33	SO 220608 1745 WPS	82	84	85	106	84	73	63	86
240-168146-34	SO 220608 1755 WPS	87	80	84	105	81	71	68	82
240-168146-35	SO 220608 1645 WPS	106	104	101	104	81	78	59	87
240-168146-36	SO 220608 1655 WPS	91	95	92	109	85	78	67	88
240-168146-37	SO 220608 1830 WPS	93	103	95	106	82	81	64	85
240-168146-38	SO 220608 1845 WPS	79	86	81	111	83	72	71	85
240-168146-39	SO 220608 1900 WPS	106	100	100	107	85	82	55	87
240-168146-40	SO 220608 1910 WPS	93	101	94	112	90	79	68	93
240-168146-41	SO 220608 1655 WPS-FD	99	89	92	108	87	81	67	89
240-168146-41 MS	SO 220608 1655 WPS-FD	100	96	94	111	87	79	64	89
240-168146-41 MSD	SO 220608 1655 WPS-FD	87	93	88	109	86	78	63	91
LCS 320-596260/2-A	Lab Control Sample	121	123	117	124	101	108	91	100
LCS 320-596270/2-A	Lab Control Sample	120	113	108	112	97	101	79	98
LCS 320-597522/2-A	Lab Control Sample	94	94	96	94	79	79	56	82
MB 320-596260/1-A	Method Blank	111	117	108	107	94	102	92	97
MB 320-596270/1-A	Method Blank	112	112	104	107	94	94	82	98
MB 320-597522/1-A	Method Blank	99	104	96	92	82	79	63	86

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)	PFOSA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)
240-168146-1	SO 220606 1650 WPS	91	95	101	98	88	93	92	94
240-168146-2	SO 220606 1700 WPS	87	86	95	99	86	90	94	91
240-168146-3	SO 220606 1745 WPS	97	97	102	93	100	97	96	92
240-168146-4	SO 220606 1755 WPS	101	110	122	103	99	96	98	97
240-168146-5	SO 220606 1840 WPS	99	91	97	91	93	95	94	92
240-168146-6	SO 220606 1850 WPS	105	103	109	99	95	102	100	98
240-168146-7	SO 220606 1850 WPS-FD	101	106	115	99	97	99	99	97
240-168146-8	SO 220607 0955 WPS	93	102	102	95	95	96	95	94
240-168146-9	SO 220607 1645 WPS	100	84	94	79	97	84	76	75
240-168146-10	SO 2206071655 WPS	96	86	93	85	95	83	78	77
240-168146-11	SO 220607 1730 WPS	103	88	84	95	99	97	97	92
240-168146-12	SO 220607 1735 WPS	104	116	115	111	96	96	99	100
240-168146-13	SO 220607 1810 WPS	99	99	108	97	97	97	96	94
240-168146-14	SO 220607 1810 WPS-FD	96	103	112	106	94	98	97	98
240-168146-14 MS	SO 220607 1810 WPS-FD	93	110	116	108	97	101	96	97
240-168146-14 MSD	SO 220607 1810 WPS-FD	93	90	94	88	93	92	95	85
240-168146-19	SO 220608 0940 WPS	94	101	104	95	93	96	95	95
240-168146-20	SO 220608 0945 WPS	96	102	108	96	97	96	97	97
240-168146-21	SO 220608 1000 WPS	94	106	113	105	98	96	98	96
240-168146-22	SO 220608 1005 WPS	94	105	112	103	93	96	99	96
240-168146-23	SO 220608 1030 WPS	98	93	98	90	97	97	93	87
240-168146-24	SO 220608 1040 WPS	96	98	102	95	92	95	91	93
240-168146-25	SO 220608 1300 WPS	90	95	102	88	90	90	92	91
240-168146-26	SO 220608 1305 WPS	87	85	90	88	86	89	92	86
240-168146-27	SO 220608 1325 WPS	96	100	103	95	91	90	90	89
240-168146-28	SO 220608 1345 WPS	91	87	97	87	89	90	95	92
240-168146-29	SO 220608 1425 WPS	95	97	108	92	95	95	93	92
240-168146-30	SO 220608 1440 WPS	87	92	100	93	91	91	89	89
240-168146-31	SO 220608 1550 WPS	93	108	119	97	94	93	94	95
240-168146-32	SO 220608 1600 WPS	84	84	88	85	86	85	86	84
240-168146-32 MS	SO 220608 1600 WPS	87	93	105	91	88	90	90	92
240-168146-32 MSD	SO 220608 1600 WPS	91	98	104	96	89	94	95	94
240-168146-33	SO 220608 1745 WPS	84	84	98	89	82	86	87	91
240-168146-34	SO 220608 1755 WPS	79	81	92	89	83	84	87	86
240-168146-35	SO 220608 1645 WPS	82	98	106	95	84	87	90	91
240-168146-36	SO 220608 1655 WPS	87	96	105	95	85	88	91	89
240-168146-37	SO 220608 1830 WPS	84	94	103	93	82	87	88	88
240-168146-38	SO 220608 1845 WPS	80	85	100	90	82	84	88	90
240-168146-39	SO 220608 1900 WPS	83	91	102	92	82	86	88	86
240-168146-40	SO 220608 1910 WPS	87	97	105	97	87	90	91	92
240-168146-41	SO 220608 1655 WPS-FD	84	95	104	95	90	89	89	90
240-168146-41 MS	SO 220608 1655 WPS-FD	88	99	109	96	87	92	93	91
240-168146-41 MSD	SO 220608 1655 WPS-FD	84	96	102	95	88	90	94	90
LCS 320-596260/2-A	Lab Control Sample	101	115	127	110	99	102	99	100
LCS 320-596270/2-A	Lab Control Sample	96	108	117	109	98	98	100	97
LCS 320-597522/2-A	Lab Control Sample	79	90	103	89	80	81	85	84
MB 320-596260/1-A	Method Blank	96	106	105	103	93	93	99	94
MB 320-596270/1-A	Method Blank	96	103	112	102	97	96	96	95
MB 320-597522/1-A	Method Blank	83	89	94	92	84	82	84	84

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFHxS (25-150)	PFOS (25-150)
240-168146-1	SO 220606 1650 WPS	105	105	97	95
240-168146-2	SO 220606 1700 WPS	98	109	88	86
240-168146-3	SO 220606 1745 WPS	93	92	99	92
240-168146-4	SO 220606 1755 WPS	108	107	102	100
240-168146-5	SO 220606 1840 WPS	94	91	91	86
240-168146-6	SO 220606 1850 WPS	101	96	103	96
240-168146-7	SO 220606 1850 WPS-FD	100	103	101	98
240-168146-8	SO 220607 0955 WPS	96	96	97	95
240-168146-9	SO 220607 1645 WPS	83	87	91	68
240-168146-10	SO 2206071655 WPS	88	92	92	77
240-168146-11	SO 220607 1730 WPS	89	88	101	94
240-168146-12	SO 220607 1735 WPS	103	106	104	102
240-168146-13	SO 220607 1810 WPS	100	98	102	96
240-168146-14	SO 220607 1810 WPS-FD	102	104	96	94
240-168146-14 MS	SO 220607 1810 WPS-FD	106	98	102	99
240-168146-14 MSD	SO 220607 1810 WPS-FD	86	91	96	87
240-168146-19	SO 220608 0940 WPS	100	101	95	92
240-168146-20	SO 220608 0945 WPS	102	100	96	94
240-168146-21	SO 220608 1000 WPS	106	104	99	96
240-168146-22	SO 220608 1005 WPS	101	102	96	96
240-168146-23	SO 220608 1030 WPS	92	94	95	88
240-168146-24	SO 220608 1040 WPS	92	97	95	94
240-168146-25	SO 220608 1300 WPS	93	94	91	88
240-168146-26	SO 220608 1305 WPS	94	102	88	85
240-168146-27	SO 220608 1325 WPS	99	99	87	85
240-168146-28	SO 220608 1345 WPS	100	96	89	85
240-168146-29	SO 220608 1425 WPS	99	99	94	88
240-168146-30	SO 220608 1440 WPS	98	104	91	88
240-168146-31	SO 220608 1550 WPS	106	111	87	83
240-168146-32	SO 220608 1600 WPS	93	91	86	83
240-168146-32 MS	SO 220608 1600 WPS	101	97	91	88
240-168146-32 MSD	SO 220608 1600 WPS	100	101	93	90
240-168146-33	SO 220608 1745 WPS	101	93	75	75
240-168146-34	SO 220608 1755 WPS	103	93	74	76
240-168146-35	SO 220608 1645 WPS	104	97	84	82
240-168146-36	SO 220608 1655 WPS	102	100	82	82
240-168146-37	SO 220608 1830 WPS	98	97	84	82
240-168146-38	SO 220608 1845 WPS	100	95	78	76
240-168146-39	SO 220608 1900 WPS	104	98	83	78
240-168146-40	SO 220608 1910 WPS	106	103	88	84
240-168146-41	SO 220608 1655 WPS-FD	106	97	85	83
240-168146-41 MS	SO 220608 1655 WPS-FD	103	104	85	83
240-168146-41 MSD	SO 220608 1655 WPS-FD	106	101	83	81
LCS 320-596260/2-A	Lab Control Sample	108	116	103	103
LCS 320-596270/2-A	Lab Control Sample	107	108	104	100
LCS 320-597522/2-A	Lab Control Sample	98	90	82	79
MB 320-596260/1-A	Method Blank	105	101	100	97
MB 320-596270/1-A	Method Blank	104	104	97	94
MB 320-597522/1-A	Method Blank	94	90	83	82

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS

Method: B/L/T PFAS - Branched, Linear and Total PFAS

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)
240-168146-15	FB 220606 1430 WPS	89	91	90	91	91	94	89	103
240-168146-16	EB 220606 1910 WPS	71	69	75	73	75	76	74	87
240-168146-17	FB 220607 1100 WPS	59	60	60	61	61	61	62	72
240-168146-18	EB 220607 1900 WPS	78	79	77	81	80	82	82	99
240-168146-42	FB 220608 0840 WPS	92	97	96	95	98	95	96	105
240-168146-43	EB 220608 1930 WPS	97	100	98	100	99	102	97	107
240-168146-44	FB 220610 1025 WPS	96	98	96	99	101	100	99	108
240-168146-45	DW 220610 1030 WPS	83	97	92	96	95	95	92	97
240-168146-45 MS	DW 220610 1030 WPS	87	100	91	101	94	97	92	99
240-168146-45 MSD	DW 220610 1030 WPS	86	96	98	99	92	95	93	100
240-168146-46	DW 220610 1030 WPS-FD	86	102	96	98	97	96	95	102
240-168146-47	TB- 220610 1035 WPS	89	89	92	93	93	94	86	96
LCS 320-597661/2-A	Lab Control Sample	89	90	90	89	91	93	93	108
LCS 320-597666/2-A	Lab Control Sample	93	94	94	95	96	93	91	99
LCSD 320-597661/3-A	Lab Control Sample Dup	99	96	96	100	98	101	99	117
MB 320-597661/1-A	Method Blank	93	94	95	96	97	97	95	108
MB 320-597666/1-A	Method Blank	92	99	93	96	97	96	95	110

		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 (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
240-168146-15	FB 220606 1430 WPS	97	106	87	91	87	90	93	105
240-168146-16	EB 220606 1910 WPS	85	91	77	78	78	81	82	87
240-168146-17	FB 220607 1100 WPS	65	76	66	64	61	64	64	76
240-168146-18	EB 220607 1900 WPS	83	97	81	86	81	87	72	93
240-168146-42	FB 220608 0840 WPS	101	110	96	97	93	97	96	107
240-168146-43	EB 220608 1930 WPS	95	97	102	101	97	84	96	103
240-168146-44	FB 220610 1025 WPS	101	115	98	102	96	105	103	107
240-168146-45	DW 220610 1030 WPS	86	103	94	96	89	85	95	104

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168146-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
240-168146-45 MS	DW 220610 1030 WPS	80	103	98	99	93	88	93	99
240-168146-45 MSD	DW 220610 1030 WPS	85	103	101	99	92	88	95	102
240-168146-46	DW 220610 1030 WPS-FD	91	103	101	101	94	86	99	109
240-168146-47	TB- 220610 1035 WPS	90	102	94	96	84	83	90	98
LCS 320-597661/2-A	Lab Control Sample	104	111	96	94	91	97	97	107
LCS 320-597666/2-A	Lab Control Sample	97	109	93	97	88	97	89	101
LCSD 320-597661/3-A	Lab Control Sample Dup	112	120	98	98	95	101	104	110
MB 320-597661/1-A	Method Blank	107	117	97	98	95	99	101	109
MB 320-597666/1-A	Method Blank	106	116	98	101	96	103	99	110

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
240-168146-15	FB 220606 1430 WPS	104	103	100	89
240-168146-16	EB 220606 1910 WPS	86	89	84	71
240-168146-17	FB 220607 1100 WPS	74	76	71	58
240-168146-18	EB 220607 1900 WPS	102	98	98	76
240-168146-42	FB 220608 0840 WPS	113	118	106	90
240-168146-43	EB 220608 1930 WPS	126	119	111	95
240-168146-44	FB 220610 1025 WPS	99	105	103	95
240-168146-45	DW 220610 1030 WPS	25	37	94	94
240-168146-45 MS	DW 220610 1030 WPS	44	41	95	93
240-168146-45 MSD	DW 220610 1030 WPS	31	39	92	94
240-168146-46	DW 220610 1030 WPS-FD	31	38	94	93
240-168146-47	TB- 220610 1035 WPS	101	106	101	91
LCS 320-597661/2-A	Lab Control Sample	105	110	104	87
LCS 320-597666/2-A	Lab Control Sample	106	103	96	93
LCSD 320-597661/3-A	Lab Control Sample Dup	119	119	113	97
MB 320-597661/1-A	Method Blank	111	114	108	93
MB 320-597666/1-A	Method Blank	111	108	102	94

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Isotope Dilution Summary

Client: AECOM

Job ID: 240-168146-1

Project/Site: Former McDonalds Country Store, Ocscoda,

HFPODA = 13C3 HFPO-DA

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ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-168450-1
Client Project/Site: Former McDonalds Country Store, Ocscoda,

For:
AECOM
3950 Sparks Drive SE
Grand Rapids, Michigan 49546

Attn: Mike Cox

Authorized for release by:
7/18/2022 8:59:14 PM

Kris Brooks, Project Manager II
(330)966-9790
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: 240-168450-1

Laboratory: Eurofins Canton

Narrative

Job Narrative
240-168450-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2022 @ 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.8º C, 2.3º C and 3.4º C.

Receipt Exceptions

The cooler containing the following sample(s); #3, #5, #6, #7, #20 was received out of temperature @ 10.7c, at Sacramento lab location. All are 2/2 containers.

Samples #8, #10, #11, #12, #13, #17, #21 was received out of temperature @ 10.7c, at Sacramento lab location. All are 1/2 containers.

Samples #23 #24 #25 #26 #27 #28 #29 #30 #31 #32 #33 #34 #35 #36 #37 #38 was received out of temperature @ 10.7c, also compromised by water, at Sacramento lab location. All are 2/2 containers. These samples were cancelled and will be re-collected.

EB2206141500WPS (240-168450-3), SW2206141100WPS (240-168450-5), SW2206141145WPS (240-168450-6), SW2206141320WPS (240-168450-7), SW2206141415WPS (240-168450-8), SW2206141520WPS-FD (240-168450-10), GW2206141750WPS (240-168450-11), GW2206141750WPS-FD (240-168450-12), GW2206150920WPS (240-168450-13), GW2206151405WPS (240-168450-17), GW2206151650WPS (240-168450-20), GW2206151800WPS (240-168450-21), SD2206141015WPS (240-168450-23), SD2206141020WPS (240-168450-24), SD2206141025WPS (240-168450-25), SD2206141025WPS-FD (240-168450-26), SD2206141105WPS (240-168450-27), SD2206141110WPS (240-168450-28), SD2206141115WPS (240-168450-29), SD2206141155WPS (240-168450-30), SD2206141200WPS (240-168450-31), SD2206141205WPS (240-168450-32), SD2206141330WPS (240-168450-33), SD2206141335WPS (240-168450-34), SD2206141340WPS (240-168450-35), SD2206141420WPS (240-168450-36), SD2206141425WPS (240-168450-37) and SD2206141430WPS (240-168450-38).

LCMS
Method B/L/T PFAS: 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: SW2206141145WPS (240-168450-6).

Method B/L/T PFAS: 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: GW2206141750WPS (240-168450-11), GW2206141750WPS-FD (240-168450-12) and GW2206151220WPS (240-168450-16).

Method B/L/T PFAS: Results for samples GW2206141750WPS (240-168450-11), GW2206141750WPS-FD (240-168450-12), GW2206150920WPS (240-168450-13), GW2206151130WPS (240-168450-15), GW2206151220WPS (240-168450-16), GW2206151405WPS (240-168450-17), GW2206151535WPS (240-168450-18) and GW2206151620WPS (240-168450-19) 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 B/L/T PFAS: The laboratory control sample (LCS) for preparation batch 320-598910 and 320-598919 and analytical batch 320-602552 recovered outside control limits for the following analyte: 11Cl-PF3OUdS. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method B/L/T PFAS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-598919 and analytical batch 320-602552 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method B/L/T PFAS: The retention time (RT) of the internal standard was outside control limits in the continuing calibration verification (CCV) associated to 320-602951. The samples associated to this CCV were within RT criteria. The identification and quantitation of target analytes and isotope dilution analytes is not impacted by this anomaly and the data reported.

Job ID: 240-168450-1 (Continued)

Laboratory: Eurofins Canton (Continued)

(CCV 320-602951/11)

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 in preparation batch 320-598910 and 320-598910 were light yellow in color following extraction. FB222206141455WPS (240-168450-1), TB222206140810WPS (240-168450-2), EB2206141500WPS (240-168450-3), SW2206141000WPS (240-168450-4), SW2206141100WPS (240-168450-5), SW2206141145WPS (240-168450-6), SW2206141320WPS (240-168450-7), SW2206141415WPS (240-168450-8), SW2206141520WPS (240-168450-9), SW2206141520WPS MS (240-168450-9[MS]), SW2206141520WPS MSD (240-168450-9[MSD]) and SW2206141520WPS-FD (240-168450-10)

Method 3535: The following samples in preparation batch 320-598910 and 320-598910 were observed to have floating particulates present in the sample bottle. FB222206141455WPS (240-168450-1), TB222206140810WPS (240-168450-2), EB2206141500WPS (240-168450-3), SW2206141000WPS (240-168450-4), SW2206141100WPS (240-168450-5), SW2206141145WPS (240-168450-6), SW2206141320WPS (240-168450-7), SW2206141415WPS (240-168450-8), SW2206141520WPS (240-168450-9), SW2206141520WPS MS (240-168450-9[MS]), SW2206141520WPS MSD (240-168450-9[MSD]) and SW2206141520WPS-FD (240-168450-10)

Method 3535: The following samples in preparation batch 320-598910 was observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. GW2206141750WPS (240-168450-11)

Method 3535: The following samples in preparation batch 320-598919 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. GW2206141750WPS-FD (240-168450-12), GW2206150920WPS (240-168450-13), GW2206151130WPS (240-168450-15), GW2206151405WPS (240-168450-17), GW2206151620WPS (240-168450-19), GW2206151650WPS (240-168450-20) and GW2206151800WPS (240-168450-21)

Method 3535: The following samples in preparation batch 320-598919 were light yellow in color following extraction. GW2206151040WPS (240-168450-14), GW2206151040WPS MS (240-168450-14[MS]), GW2206151040WPS MSD (240-168450-14[MSD]) and GW2206151650WPS (240-168450-20)

Method 3535: The following sample in preparation batch 320-598919 was observed to have floating particulates present in the sample bottle. GW2206151220WPS (240-168450-16)

Method 3535: The following samples in preparation batch 320-598919 were light orange in color following extraction. GW2206151220WPS (240-168450-16) and GW2206151405WPS (240-168450-17)

Method 3535: During the solid phase extraction process, the following samples contain non-settable particulates which clogged the solid phase extraction column: SW2206141520WPS (240-168450-9), SW2206141520WPS MS (240-168450-9[MS]) and SW2206141520WPS MSD (240-168450-9[MSD]).

Method 3535: The following samples in preparation batch 320-598910 and 320-598910 were light yellow in color following concentration. SW2206141100WPS (240-168450-5), SW2206141145WPS (240-168450-6), SW2206141520WPS (240-168450-9), SW2206141520WPS MS (240-168450-9[MS]), SW2206141520WPS MSD (240-168450-9[MSD]) and SW2206141520WPS-FD (240-168450-10)

Method 3535: The following samples in preparation batch 320-598919 were light yellow in color following concentration. GW2206151040WPS (240-168450-14), GW2206151040WPS MS (240-168450-14[MS]), GW2206151040WPS MSD (240-168450-14[MSD]), GW2206151130WPS (240-168450-15), GW2206151220WPS (240-168450-16), GW2206151405WPS (240-168450-17) and GW2206151650WPS (240-168450-20)

Method 3535: During the solid phase extraction process, the following samples contain non-settable particulates which clogged the solid phase extraction column: GW2206151040WPS (240-168450-14), GW2206151040WPS MS (240-168450-14[MS]), GW2206151040WPS MSD (240-168450-14[MSD]), GW2206151130WPS (240-168450-15), GW2206151220WPS (240-168450-16), GW2206151405WPS (240-168450-17) and GW2206151650WPS (240-168450-20).

Method SHAKE: The following sample in preparation batch 320-598753 was light green in color after adjusting to final volume.

Job ID: 240-168450-1 (Continued)

Laboratory: Eurofins Canton (Continued)

SD2206141025WPS-FD (240-168450-26)
Shake_Bath 14D
Solid

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

Method Summary

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Method	Method Description	Protocol	Laboratory
B/L/T PFAS	Branched, Linear and Total PFAS	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: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-168450-1	FB222206141455WPS	Water	06/14/22 14:55	06/17/22 09:40
240-168450-2	TB222206140810WPS	Water	06/14/22 08:10	06/17/22 09:40
240-168450-3	EB2206141500WPS	Water	06/14/22 15:00	06/17/22 09:40
240-168450-4	SW2206141000WPS	Water	06/14/22 10:00	06/17/22 09:40
240-168450-5	SW2206141100WPS	Water	06/14/22 11:00	06/17/22 09:40
240-168450-6	SW2206141145WPS	Water	06/14/22 11:45	06/17/22 09:40
240-168450-7	SW2206141320WPS	Water	06/14/22 13:20	06/17/22 09:40
240-168450-8	SW2206141415WPS	Water	06/14/22 14:15	06/17/22 09:40
240-168450-9	SW2206141520WPS	Water	06/14/22 15:20	06/17/22 09:40
240-168450-10	SW2206141520WPS-FD	Water	06/14/22 15:20	06/17/22 09:40
240-168450-11	GW2206141750WPS	Water	06/14/22 17:50	06/17/22 09:40
240-168450-12	GW2206141750WPS-FD	Water	06/14/22 17:50	06/17/22 09:40
240-168450-13	GW2206150920WPS	Water	06/15/22 09:20	06/17/22 09:40
240-168450-14	GW2206151040WPS	Water	06/15/22 10:40	06/17/22 09:40
240-168450-15	GW2206151130WPS	Water	06/15/22 11:30	06/17/22 09:40
240-168450-16	GW2206151220WPS	Water	06/15/22 12:20	06/17/22 09:40
240-168450-17	GW2206151405WPS	Water	06/15/22 14:05	06/17/22 09:40
240-168450-18	GW2206151535WPS	Water	06/15/22 15:35	06/17/22 09:40
240-168450-19	GW2206151620WPS	Water	06/15/22 16:20	06/17/22 09:40
240-168450-20	GW2206151650WPS	Water	06/15/22 16:50	06/17/22 09:40
240-168450-21	GW2206151800WPS	Water	06/15/22 18:00	06/17/22 09:40
240-168450-22	FB220615 WPS	Water	06/15/22 00:00	06/17/22 09:40

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB222206141455WPS — Lab Sample ID: 240-168450-1

No Detections.

Client Sample ID: TB222206140810WPS — Lab Sample ID: 240-168450-2

No Detections.

Client Sample ID: EB2206141500WPS — Lab Sample ID: 240-168450-3

No Detections.

Client Sample ID: SW2206141000WPS — Lab Sample ID: 240-168450-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	1.0	J	1.9	0.46	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	1.9		1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.80	J	1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	1.1	J	1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.79	J	1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.61	J	1.9	0.28	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	5.8		1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.34	J	1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	12		1.9	0.50	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	0.46	J	1.9	0.20	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	1.1	J	1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.93	J	1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	7.7		1.9	0.50	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	6.7		1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	20		1.9	0.50	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SW2206141100WPS — Lab Sample ID: 240-168450-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	1.1	J	1.9	0.47	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	1.9		1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.95	J	1.9	0.24	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	1.0	J	1.9	0.81	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.33	J	1.9	0.26	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.73	J	1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.59	J	1.9	0.28	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	5.6		1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.33	J	1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	11		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	0.44	J	1.9	0.21	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	1.0	J	1.9	0.81	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.96	J	1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	7.2		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	6.6		1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	18		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SW2206141145WPS — Lab Sample ID: 240-168450-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.80	J	1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.55	J	1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.34	J I	1.9	0.25	ng/L	1		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample ID: SW2206141145WPS (Continued) — Lab Sample ID: 240-168450-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.30	J	1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	1.8	J	1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	10		1.9	0.50	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	0.29	J	1.9	0.20	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	4.6		1.9	0.50	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	1.8	J	1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	15		1.9	0.50	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SW2206141320WPS — Lab Sample ID: 240-168450-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.35	J	1.9	0.24	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.23	J	1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.56	J	1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.7	J	1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.61	J	1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	0.56	J	1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	2.3		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SW2206141415WPS — Lab Sample ID: 240-168450-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.27	J	1.9	0.24	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.3	J	1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	1.3	J	1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SW2206141520WPS — Lab Sample ID: 240-168450-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	5.8		4.6	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.59	J	1.8	0.45	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	1.1	J	1.8	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.78	J	1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	1.0	J	1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	1.0	J	1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.58	J	1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	1.0	J	1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	0.58	J	1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: SW2206141520WPS-FD — Lab Sample ID: 240-168450-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	6.1		4.7	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.84	J	1.9	0.46	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	1.1	J	1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.67	J	1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	1.1	J	1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	1.0	J	1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.57	J	1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	1.1	J	1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	0.57	J	1.9	0.53	ng/L	1		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206141750WPS — Lab Sample ID: 240-168450-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	32		4.6	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	77		1.8	0.45	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	55		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	49		1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	60		1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	11		1.8	0.25	ng/L	1		B/L/T PFAS	Total/NA
Perfluorodecanoic acid	1.7	J	1.8	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	20		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	44		1.8	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	20		1.8	0.17	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.66	J I	1.8	0.34	ng/L	1		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid	4.8		4.6	2.3	ng/L	1		B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	2.6		1.8	0.42	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	37		1.8	0.20	ng/L	1		B/L/T PFAS	Total/NA
FBSA	63		1.8	0.32	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	67		1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	6.5		1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid - DL	640		18	5.2	ng/L	10		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	1500		18	5.0	ng/L	10		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid - DL	75		18	5.2	ng/L	10		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	460		18	5.0	ng/L	10		B/L/T PFAS	Total/NA
Total PFHxS - DL	710		18	5.2	ng/L	10		B/L/T PFAS	Total/NA
Total PFOS - DL	1900		18	5.0	ng/L	10		B/L/T PFAS	Total/NA

Client Sample ID: GW2206141750WPS-FD — Lab Sample ID: 240-168450-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	30		4.5	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	76		1.8	0.44	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	56		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	47		1.8	0.22	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	61		1.8	0.76	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	10		1.8	0.24	ng/L	1		B/L/T PFAS	Total/NA
Perfluorodecanoic acid	1.9		1.8	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	20		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	43		1.8	0.27	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	22		1.8	0.17	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.68	J I	1.8	0.33	ng/L	1		B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	0.88	J	1.8	0.88	ng/L	1		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid	4.2	J	4.5	2.2	ng/L	1		B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	2.7		1.8	0.41	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	36		1.8	0.20	ng/L	1		B/L/T PFAS	Total/NA
FBSA	62		1.8	0.31	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	67		1.8	0.76	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	6.5		1.8	0.76	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid - DL	660		18	5.1	ng/L	10		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	1500		18	4.9	ng/L	10		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid - DL	75		18	5.1	ng/L	10		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	450		18	4.9	ng/L	10		B/L/T PFAS	Total/NA
Total PFHxS - DL	730		18	5.1	ng/L	10		B/L/T PFAS	Total/NA
Total PFOS - DL	1900		18	4.9	ng/L	10		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206150920WPS — Lab Sample ID: 240-168450-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	26		4.5	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	90		1.8	0.45	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	110		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	70		1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	140		1.8	0.77	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	39		1.8	0.25	ng/L	1		B/L/T PFAS	Total/NA
Perfluorodecanoic acid	4.7		1.8	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroundecanoic acid	2.3		1.8	1.0	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	51		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	120		1.8	0.27	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	260		1.8	0.17	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	20		1.8	0.34	ng/L	1		B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	5.0		1.8	0.89	ng/L	1		B/L/T PFAS	Total/NA
4:2 Fluorotelomer sulfonic acid	1.5	J	1.8	0.22	ng/L	1		B/L/T PFAS	Total/NA
FBSA	310		1.8	0.32	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	150		1.8	0.77	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	13		1.8	0.77	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid - DL	2000		91	26	ng/L	50		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	16000		91	25	ng/L	50		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	820		230	110	ng/L	50		B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid - DL	370		91	21	ng/L	50		B/L/T PFAS	Total/NA
FHxSA - DL	1600		91	10	ng/L	50		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid - DL	250		91	26	ng/L	50		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	7600		91	25	ng/L	50		B/L/T PFAS	Total/NA
Total PFHxS - DL	2200		91	26	ng/L	50		B/L/T PFAS	Total/NA
Total PFOS - DL	24000		91	25	ng/L	50		B/L/T PFAS	Total/NA

Client Sample ID: GW2206151040WPS — Lab Sample ID: 240-168450-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	4.8	F1	4.8	2.3	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	2.5	F1	1.9	0.47	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	7.2	F1	1.9	0.56	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	1.3	J F1	1.9	0.24	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	2.8	F1	1.9	0.82	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	16	F1	1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	14	F1	1.9	0.29	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	110	F1	1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	2.8	F1	1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	160		1.9	0.52	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	2.5		1.9	0.21	ng/L	1		B/L/T PFAS	Total/NA
FBSA	1.4	J	1.9	0.34	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	2.8	F1	1.9	0.82	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	20		1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	56		1.9	0.52	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	130	F1	1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	210		1.9	0.52	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: GW2206151130WPS — Lab Sample ID: 240-168450-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	32		4.8	2.3	ng/L	1		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151130WPS (Continued) — Lab Sample ID: 240-168450-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	83		1.9	0.47	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	48		1.9	0.56	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	33		1.9	0.24	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	36		1.9	0.82	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	12		1.9	0.26	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	14		1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	16		1.9	0.29	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	170		1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	9.0		1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
4:2 Fluorotelomer sulfonic acid	0.32	J	1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid	9.7		4.8	2.4	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	5.2		1.9	0.21	ng/L	1		B/L/T PFAS	Total/NA
FBSA	23		1.9	0.33	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	37		1.9	0.82	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	1.3	J	1.9	0.82	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	24		1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	190		1.9	0.55	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	780		9.6	2.6	ng/L	5		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	260		9.6	2.6	ng/L	5		B/L/T PFAS	Total/NA
Total PFOS - DL	1000		9.6	2.6	ng/L	5		B/L/T PFAS	Total/NA

Client Sample ID: GW2206151220WPS — Lab Sample ID: 240-168450-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	160		4.7	2.3	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	350		1.9	0.24	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	250		1.9	0.80	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	67		1.9	0.25	ng/L	1		B/L/T PFAS	Total/NA
Perfluorodecanoic acid	0.98	J	1.9	0.29	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	210		1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	250		1.9	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	180		1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	1.3	J I	1.9	0.35	ng/L	1		B/L/T PFAS	Total/NA
4:2 Fluorotelomer sulfonic acid	6.9		1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	26		1.9	0.43	ng/L	1		B/L/T PFAS	Total/NA
FBSA	170		1.9	0.33	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	270		1.9	0.80	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	23		1.9	0.80	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid - DL	520		94	23	ng/L	50		B/L/T PFAS	Total/NA
Perfluorohexanoic acid - DL	950		94	27	ng/L	50		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid - DL	2200		94	27	ng/L	50		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	10000		94	25	ng/L	50		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid - DL	450		240	120	ng/L	50		B/L/T PFAS	Total/NA
FHxSA - DL	390		94	10	ng/L	50		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid - DL	310		94	27	ng/L	50		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	5800		94	25	ng/L	50		B/L/T PFAS	Total/NA
Total PFHxS - DL	2500		94	27	ng/L	50		B/L/T PFAS	Total/NA
Total PFOS - DL	16000		94	25	ng/L	50		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151405WPS — Lab Sample ID: 240-168450-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	100		4.7	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	340		1.9	0.46	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	260		1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	180		1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	81		1.9	0.25	ng/L	1		B/L/T PFAS	Total/NA
Perfluorodecanoic acid	4.9		1.9	0.29	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	72		1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	110		1.9	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	56		1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	12		1.9	0.34	ng/L	1		B/L/T PFAS	Total/NA
Perfluorooctanesulfonamide	6.8		1.9	0.91	ng/L	1		B/L/T PFAS	Total/NA
4:2 Fluorotelomer sulfonic acid	2.6		1.9	0.22	ng/L	1		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid	330		4.7	2.3	ng/L	1		B/L/T PFAS	Total/NA
8:2 Fluorotelomer sulfonic acid	100		1.9	0.43	ng/L	1		B/L/T PFAS	Total/NA
FBSA	100		1.9	0.32	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	190		1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	13		1.9	0.79	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid - DL	450		93	27	ng/L	50		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid - DL	1500		93	27	ng/L	50		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	9500		93	25	ng/L	50		B/L/T PFAS	Total/NA
FHxSA - DL	660		93	10	ng/L	50		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid - DL	180		93	27	ng/L	50		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	2400		93	25	ng/L	50		B/L/T PFAS	Total/NA
Total PFHxS - DL	1600		93	27	ng/L	50		B/L/T PFAS	Total/NA
Total PFOS - DL	12000		93	25	ng/L	50		B/L/T PFAS	Total/NA

Client Sample ID: GW2206151535WPS — Lab Sample ID: 240-168450-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	18		4.6	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	23		1.8	0.45	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	24		1.8	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	9.4		1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	5.4		1.8	0.79	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	3.7		1.8	0.25	ng/L	1		B/L/T PFAS	Total/NA
Perfluorodecanoic acid	0.71	J	1.8	0.29	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	7.2		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	8.0		1.8	0.28	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	83		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	3.1		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	2.3		1.8	0.20	ng/L	1		B/L/T PFAS	Total/NA
FBSA	2.3		1.8	0.32	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	5.4		1.8	0.79	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	10		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	94		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid - DL	360		9.2	2.5	ng/L	5		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid - DL	72		9.2	2.5	ng/L	5		B/L/T PFAS	Total/NA
Total PFOS - DL	430		9.2	2.5	ng/L	5		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151620WPS — Lab Sample ID: 240-168450-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	47		4.7	2.3	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	180		1.9	0.46	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	330		1.9	0.54	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	86		1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	48		1.9	0.80	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.41	J	1.9	0.25	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	130		1.9	0.19	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	140		1.9	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	6.1		1.9	0.18	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	10		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
4:2 Fluorotelomer sulfonic acid	0.72	J	1.9	0.23	ng/L	1		B/L/T PFAS	Total/NA
6:2 Fluorotelomer sulfonic acid	45		4.7	2.3	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	5.7		1.9	0.21	ng/L	1		B/L/T PFAS	Total/NA
FBSA	39		1.9	0.33	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	59		1.9	0.80	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanoic acid	11		1.9	0.80	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	39		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	49		1.9	0.51	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid - DL	790		9.4	2.7	ng/L	5		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid - DL	150		9.4	2.7	ng/L	5		B/L/T PFAS	Total/NA
Total PFHxS - DL	940		9.4	2.7	ng/L	5		B/L/T PFAS	Total/NA

Client Sample ID: GW2206151650WPS — Lab Sample ID: 240-168450-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	9.0		4.5	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	5.0		1.8	0.44	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	5.2		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	2.8		1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	5.6		1.8	0.77	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.33	J	1.8	0.24	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	4.8		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	2.1		1.8	0.27	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	23		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	0.47	J	1.8	0.17	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	15		1.8	0.49	ng/L	1		B/L/T PFAS	Total/NA
FBSA	1.0	J	1.8	0.31	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	5.6		1.8	0.77	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	2.9		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	15		1.8	0.49	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	26		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	29		1.8	0.49	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: GW2206151800WPS — Lab Sample ID: 240-168450-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	17		4.6	2.2	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanoic acid	16		1.8	0.45	ng/L	1		B/L/T PFAS	Total/NA
Perfluorohexanoic acid	19		1.8	0.53	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	8.3		1.8	0.23	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	5.6		1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanoic acid	1.5	J	1.8	0.25	ng/L	1		B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151800WPS (Continued) — Lab Sample ID: 240-168450-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.61	J	1.8	0.28	ng/L	1		B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	6.9		1.8	0.18	ng/L	1		B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	6.4		1.8	0.27	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	46		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	1.5	J	1.8	0.17	ng/L	1		B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	160		1.8	0.49	ng/L	1		B/L/T PFAS	Total/NA
Perfluorononanesulfonic acid	0.39	J	1.8	0.34	ng/L	1		B/L/T PFAS	Total/NA
FHxSA	2.2		1.8	0.20	ng/L	1		B/L/T PFAS	Total/NA
FBSA	3.6		1.8	0.32	ng/L	1		B/L/T PFAS	Total/NA
Total PFOA	5.6		1.8	0.78	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	6.8		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	33		1.8	0.49	ng/L	1		B/L/T PFAS	Total/NA
Total PFHxS	53		1.8	0.52	ng/L	1		B/L/T PFAS	Total/NA
Total PFOS	190		1.8	0.49	ng/L	1		B/L/T PFAS	Total/NA

Client Sample ID: FB220615 WPS — Lab Sample ID: 240-168450-22

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: FB222206141455WPS

Lab Sample ID: 240-168450-1

Date Collected: 06/14/22 14:55
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.6	2.2	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluoropentanoic acid	ND		1.8	0.45	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorohexanoic acid	ND		1.8	0.53	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluoroheptanoic acid	ND		1.8	0.23	ng/L		06/27/22 11:57	07/10/22 18:05	1
L-Perfluorooctanoic acid	ND		1.8	0.78	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorononanoic acid	ND		1.8	0.25	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluoroundecanoic acid	ND		1.8	1.0	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorododecanoic acid	ND		1.8	0.51	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorotetradecanoic acid	ND		1.8	0.67	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluoropentanesulfonic acid	ND		1.8	0.28	ng/L		06/27/22 11:57	07/10/22 18:05	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		06/27/22 11:57	07/10/22 18:05	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorononanesulfonic acid	ND		1.8	0.34	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluorooctanesulfonamide	ND		1.8	0.90	ng/L		06/27/22 11:57	07/10/22 18:05	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 11:57	07/10/22 18:05	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.2	ng/L		06/27/22 11:57	07/10/22 18:05	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 11:57	07/10/22 18:05	1
6:2 Fluorotelomer sulfonic acid	ND		4.6	2.3	ng/L		06/27/22 11:57	07/10/22 18:05	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.42	ng/L		06/27/22 11:57	07/10/22 18:05	1
DONA	ND		1.8	0.37	ng/L		06/27/22 11:57	07/10/22 18:05	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 11:57	07/10/22 18:05	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 11:57	07/10/22 18:05	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 11:57	07/10/22 18:05	1
FHxSA	ND		1.8	0.20	ng/L		06/27/22 11:57	07/10/22 18:05	1
FBSA	ND		1.8	0.32	ng/L		06/27/22 11:57	07/10/22 18:05	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		06/27/22 11:57	07/10/22 18:05	1
Total NEtFOSAA	ND		4.6	1.2	ng/L		06/27/22 11:57	07/10/22 18:05	1
Total PFOA	ND		1.8	0.78	ng/L		06/27/22 11:57	07/10/22 18:05	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.2	ng/L		06/27/22 11:57	07/10/22 18:05	1
Br-Perfluorooctanoic acid	ND		1.8	0.78	ng/L		06/27/22 11:57	07/10/22 18:05	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 11:57	07/10/22 18:05	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:05	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 18:05	1
Total PFHxS	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:05	1
Total PFOS	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 18:05	1
Total NMeFOSAA	ND		4.6	1.1	ng/L		06/27/22 11:57	07/10/22 18:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:05*	*1*
13C5 PFPeA	*105*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:05*	*1*
13C2 PFHxA	*107*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:05*	*1*

Client Sample ID: FB222206141455WPS
Lab Sample ID: 240-168450-1
Date Collected: 06/14/22 14:55
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	105		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C4 PFOA	104		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C5 PFNA	103		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C2 PFDA	103		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C2 PFUnA	102		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C2 PFDoA	98		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C2 PFTeDA	89		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C3 PFBS	108		25 - 150	06/27/22 11:57	07/10/22 18:05	1
18O2 PFHxS	99		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C4 PFOS	95		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C8 FOSA	94		25 - 150	06/27/22 11:57	07/10/22 18:05	1
d3-NMeFOSAA	103		25 - 150	06/27/22 11:57	07/10/22 18:05	1
d5-NEtFOSAA	98		25 - 150	06/27/22 11:57	07/10/22 18:05	1
M2-4:2 FTS	114		25 - 150	06/27/22 11:57	07/10/22 18:05	1
M2-6:2 FTS	104		25 - 150	06/27/22 11:57	07/10/22 18:05	1
M2-8:2 FTS	100		25 - 150	06/27/22 11:57	07/10/22 18:05	1
13C3 HFPO-DA	107		25 - 150	06/27/22 11:57	07/10/22 18:05	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: TB222206140810WPS

Lab Sample ID: 240-168450-2

Date Collected: 06/14/22 08:10
Date Received: 06/17/22 09:40

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.5	2.2	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluoropentanoic acid	ND		1.8	0.44	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorohexanoic acid	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluoroheptanoic acid	ND		1.8	0.23	ng/L		06/27/22 11:57	07/10/22 18:28	1
L-Perfluorooctanoic acid	ND		1.8	0.77	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluoroundecanoic acid	ND		1.8	0.99	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorododecanoic acid	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorotetradecanoic acid	ND		1.8	0.66	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluoropentanesulfonic acid	ND		1.8	0.27	ng/L		06/27/22 11:57	07/10/22 18:28	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		06/27/22 11:57	07/10/22 18:28	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.49	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluorooctanesulfonamide	ND		1.8	0.89	ng/L		06/27/22 11:57	07/10/22 18:28	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 11:57	07/10/22 18:28	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.2	ng/L		06/27/22 11:57	07/10/22 18:28	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 11:57	07/10/22 18:28	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.3	ng/L		06/27/22 11:57	07/10/22 18:28	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.42	ng/L		06/27/22 11:57	07/10/22 18:28	1
DONA	ND		1.8	0.36	ng/L		06/27/22 11:57	07/10/22 18:28	1
HFPODA	ND		3.6	1.4	ng/L		06/27/22 11:57	07/10/22 18:28	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 11:57	07/10/22 18:28	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 11:57	07/10/22 18:28	1
FHxSA	ND		1.8	0.20	ng/L		06/27/22 11:57	07/10/22 18:28	1
FBSA	ND		1.8	0.31	ng/L		06/27/22 11:57	07/10/22 18:28	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		06/27/22 11:57	07/10/22 18:28	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/27/22 11:57	07/10/22 18:28	1
Total PFOA	ND		1.8	0.77	ng/L		06/27/22 11:57	07/10/22 18:28	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.2	ng/L		06/27/22 11:57	07/10/22 18:28	1
Br-Perfluorooctanoic acid	ND		1.8	0.77	ng/L		06/27/22 11:57	07/10/22 18:28	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 11:57	07/10/22 18:28	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:28	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.49	ng/L		06/27/22 11:57	07/10/22 18:28	1
Total PFHxS	ND		1.8	0.52	ng/L		06/27/22 11:57	07/10/22 18:28	1
Total PFOS	ND		1.8	0.49	ng/L		06/27/22 11:57	07/10/22 18:28	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/27/22 11:57	07/10/22 18:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:28*	*1*
13C5 PFPeA	*103*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:28*	*1*
13C2 PFHxA	*105*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:28*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: TB222206140810WPS
Lab Sample ID: 240-168450-2

Date Collected: 06/14/22 08:10
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	104		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C4 PFOA	102		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C5 PFNA	100		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C2 PFDA	97		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C2 PFUnA	98		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C2 PFDoA	95		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C2 PFTeDA	86		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C3 PFBS	105		25 - 150	06/27/22 11:57	07/10/22 18:28	1
18O2 PFHxS	97		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C4 PFOS	90		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C8 FOSA	88		25 - 150	06/27/22 11:57	07/10/22 18:28	1
d3-NMeFOSAA	99		25 - 150	06/27/22 11:57	07/10/22 18:28	1
d5-NEtFOSAA	93		25 - 150	06/27/22 11:57	07/10/22 18:28	1
M2-4:2 FTS	108		25 - 150	06/27/22 11:57	07/10/22 18:28	1
M2-6:2 FTS	108		25 - 150	06/27/22 11:57	07/10/22 18:28	1
M2-8:2 FTS	103		25 - 150	06/27/22 11:57	07/10/22 18:28	1
13C3 HFPO-DA	105		25 - 150	06/27/22 11:57	07/10/22 18:28	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: EB2206141500WPS

Lab Sample ID: 240-168450-3

Date Collected: 06/14/22 15:00
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.3	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluoropentanoic acid	ND		1.9	0.46	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorohexanoic acid	ND		1.9	0.55	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluoroheptanoic acid	ND		1.9	0.24	ng/L		06/27/22 11:57	07/10/22 18:51	1
L-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorononanoic acid	ND		1.9	0.25	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorotetradecanoic acid	ND		1.9	0.69	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorobutanesulfonic acid	ND		1.9	0.19	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluoropentanesulfonic acid	ND		1.9	0.28	ng/L		06/27/22 11:57	07/10/22 18:51	1
L-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/27/22 11:57	07/10/22 18:51	1
L-Perfluorooctanesulfonic acid	ND		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluorooctanesulfonamide	ND		1.9	0.92	ng/L		06/27/22 11:57	07/10/22 18:51	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 18:51	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 18:51	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 18:51	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.4	ng/L		06/27/22 11:57	07/10/22 18:51	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 11:57	07/10/22 18:51	1
DONA	ND		1.9	0.38	ng/L		06/27/22 11:57	07/10/22 18:51	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 11:57	07/10/22 18:51	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 18:51	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 11:57	07/10/22 18:51	1
FHxSA	ND		1.9	0.21	ng/L		06/27/22 11:57	07/10/22 18:51	1
FBSA	ND		1.9	0.33	ng/L		06/27/22 11:57	07/10/22 18:51	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 11:57	07/10/22 18:51	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 18:51	1
Total PFOA	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 18:51	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 18:51	1
Br-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 18:51	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 18:51	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 18:51	1
Br-Perfluorooctanesulfonic acid	ND		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 18:51	1
Total PFHxS	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 18:51	1
Total PFOS	ND		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 18:51	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 18:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:51*	*1*
13C5 PFPeA	*101*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:51*	*1*
13C2 PFHxA	*101*		*25 - 150*	*06/27/22 11:57*	*07/10/22 18:51*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB2206141500WPS
Lab Sample ID: 240-168450-3

Date Collected: 06/14/22 15:00
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	102		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C4 PFOA	99		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C5 PFNA	97		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C2 PFDA	91		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C2 PFUnA	84		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C2 PFDoA	76		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C2 PFTeDA	71		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C3 PFBS	98		25 - 150	06/27/22 11:57	07/10/22 18:51	1
18O2 PFHxS	98		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C4 PFOS	86		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C8 FOSA	68		25 - 150	06/27/22 11:57	07/10/22 18:51	1
d3-NMeFOSAA	85		25 - 150	06/27/22 11:57	07/10/22 18:51	1
d5-NEtFOSAA	78		25 - 150	06/27/22 11:57	07/10/22 18:51	1
M2-4:2 FTS	107		25 - 150	06/27/22 11:57	07/10/22 18:51	1
M2-6:2 FTS	104		25 - 150	06/27/22 11:57	07/10/22 18:51	1
M2-8:2 FTS	96		25 - 150	06/27/22 11:57	07/10/22 18:51	1
13C3 HFPO-DA	104		25 - 150	06/27/22 11:57	07/10/22 18:51	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141000WPS

Date Collected: 06/14/22 10:00
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-4

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.2	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluoropentanoic acid	**1.0**	**J**	1.9	0.46	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorohexanoic acid	**1.9**		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluoroheptanoic acid	**0.80**	**J**	1.9	0.23	ng/L		06/27/22 11:57	07/10/22 19:13	1
L-Perfluorooctanoic acid	**1.1**	**J**	1.9	0.79	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorononanoic acid	ND		1.9	0.25	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorododecanoic acid	ND		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorotetradecanoic acid	ND		1.9	0.68	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorobutanesulfonic acid	**0.79**	**J**	1.9	0.19	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluoropentanesulfonic acid	**0.61**	**J**	1.9	0.28	ng/L		06/27/22 11:57	07/10/22 19:13	1
L-Perfluorohexanesulfonic acid	**5.8**		1.9	0.53	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluoroheptanesulfonic acid	**0.34**	**J**	1.9	0.18	ng/L		06/27/22 11:57	07/10/22 19:13	1
L-Perfluorooctanesulfonic acid	**12**		1.9	0.50	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorononanesulfonic acid	ND		1.9	0.34	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluorooctanesulfonamide	ND		1.9	0.91	ng/L		06/27/22 11:57	07/10/22 19:13	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:13	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:13	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.22	ng/L		06/27/22 11:57	07/10/22 19:13	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.3	ng/L		06/27/22 11:57	07/10/22 19:13	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 11:57	07/10/22 19:13	1
DONA	ND		1.9	0.37	ng/L		06/27/22 11:57	07/10/22 19:13	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 11:57	07/10/22 19:13	1
9Cl-PF3ONS	ND		1.9	0.22	ng/L		06/27/22 11:57	07/10/22 19:13	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 11:57	07/10/22 19:13	1
FHxSA	**0.46**	**J**	1.9	0.20	ng/L		06/27/22 11:57	07/10/22 19:13	1
FBSA	ND		1.9	0.32	ng/L		06/27/22 11:57	07/10/22 19:13	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 11:57	07/10/22 19:13	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:13	1
Total PFOA	**1.1**	**J**	1.9	0.79	ng/L		06/27/22 11:57	07/10/22 19:13	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:13	1
Br-Perfluorooctanoic acid	ND		1.9	0.79	ng/L		06/27/22 11:57	07/10/22 19:13	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:13	1
Br-Perfluorohexanesulfonic acid	**0.93**	**J**	1.9	0.53	ng/L		06/27/22 11:57	07/10/22 19:13	1
Br-Perfluorooctanesulfonic acid	**7.7**		1.9	0.50	ng/L		06/27/22 11:57	07/10/22 19:13	1
Total PFHxS	**6.7**		1.9	0.53	ng/L		06/27/22 11:57	07/10/22 19:13	1
Total PFOS	**20**		1.9	0.50	ng/L		06/27/22 11:57	07/10/22 19:13	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:13*	*1*
13C5 PFPeA	*101*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:13*	*1*
13C2 PFHxA	*104*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:13*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141000WPS
Lab Sample ID: 240-168450-4
Date Collected: 06/14/22 10:00
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	104		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C4 PFOA	100		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C5 PFNA	100		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C2 PFDA	97		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C2 PFUnA	95		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C2 PFDoA	87		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C2 PFTeDA	74		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C3 PFBS	104		25 - 150	06/27/22 11:57	07/10/22 19:13	1
18O2 PFHxS	99		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C4 PFOS	94		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C8 FOSA	97		25 - 150	06/27/22 11:57	07/10/22 19:13	1
d3-NMeFOSAA	95		25 - 150	06/27/22 11:57	07/10/22 19:13	1
d5-NEtFOSAA	94		25 - 150	06/27/22 11:57	07/10/22 19:13	1
M2-4:2 FTS	102		25 - 150	06/27/22 11:57	07/10/22 19:13	1
M2-6:2 FTS	96		25 - 150	06/27/22 11:57	07/10/22 19:13	1
M2-8:2 FTS	95		25 - 150	06/27/22 11:57	07/10/22 19:13	1
13C3 HFPO-DA	103		25 - 150	06/27/22 11:57	07/10/22 19:13	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141100WPS

Lab Sample ID: 240-168450-5

Date Collected: 06/14/22 11:00
Date Received: 06/17/22 09:40

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.3	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluoropentanoic acid	**1.1**	**J**	1.9	0.47	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorohexanoic acid	**1.9**		1.9	0.55	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluoroheptanoic acid	**0.95**	**J**	1.9	0.24	ng/L		06/27/22 11:57	07/10/22 19:36	1
L-Perfluorooctanoic acid	**1.0**	**J**	1.9	0.81	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorononanoic acid	**0.33**	**J**	1.9	0.26	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorotetradecanoic acid	ND		1.9	0.69	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorobutanesulfonic acid	**0.73**	**J**	1.9	0.19	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluoropentanesulfonic acid	**0.59**	**J**	1.9	0.28	ng/L		06/27/22 11:57	07/10/22 19:36	1
L-Perfluorohexanesulfonic acid	**5.6**		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluoroheptanesulfonic acid	**0.33**	**J**	1.9	0.18	ng/L		06/27/22 11:57	07/10/22 19:36	1
L-Perfluorooctanesulfonic acid	**11**		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluorooctanesulfonamide	ND		1.9	0.93	ng/L		06/27/22 11:57	07/10/22 19:36	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:36	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:36	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 19:36	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.4	ng/L		06/27/22 11:57	07/10/22 19:36	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.44	ng/L		06/27/22 11:57	07/10/22 19:36	1
DONA	ND		1.9	0.38	ng/L		06/27/22 11:57	07/10/22 19:36	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 11:57	07/10/22 19:36	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 19:36	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 11:57	07/10/22 19:36	1
FHxSA	**0.44**	**J**	1.9	0.21	ng/L		06/27/22 11:57	07/10/22 19:36	1
FBSA	ND		1.9	0.33	ng/L		06/27/22 11:57	07/10/22 19:36	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.43	ng/L		06/27/22 11:57	07/10/22 19:36	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:36	1
Total PFOA	**1.0**	**J**	1.9	0.81	ng/L		06/27/22 11:57	07/10/22 19:36	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:36	1
Br-Perfluorooctanoic acid	ND		1.9	0.81	ng/L		06/27/22 11:57	07/10/22 19:36	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:36	1
Br-Perfluorohexanesulfonic acid	**0.96**	**J**	1.9	0.54	ng/L		06/27/22 11:57	07/10/22 19:36	1
Br-Perfluorooctanesulfonic acid	**7.2**		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 19:36	1
Total PFHxS	**6.6**		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 19:36	1
Total PFOS	**18**		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 19:36	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:36*	*1*
13C5 PFPeA	*96*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:36*	*1*
13C2 PFHxA	*99*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:36*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141100WPS
Lab Sample ID: 240-168450-5
Date Collected: 06/14/22 11:00
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	102		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C4 PFOA	100		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C5 PFNA	94		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C2 PFDA	93		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C2 PFUnA	94		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C2 PFDoA	87		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C2 PFTeDA	72		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C3 PFBS	100		25 - 150	06/27/22 11:57	07/10/22 19:36	1
18O2 PFHxS	92		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C4 PFOS	92		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C8 FOSA	93		25 - 150	06/27/22 11:57	07/10/22 19:36	1
d3-NMeFOSAA	94		25 - 150	06/27/22 11:57	07/10/22 19:36	1
d5-NEtFOSAA	93		25 - 150	06/27/22 11:57	07/10/22 19:36	1
M2-4:2 FTS	100		25 - 150	06/27/22 11:57	07/10/22 19:36	1
M2-6:2 FTS	98		25 - 150	06/27/22 11:57	07/10/22 19:36	1
M2-8:2 FTS	92		25 - 150	06/27/22 11:57	07/10/22 19:36	1
13C3 HFPO-DA	101		25 - 150	06/27/22 11:57	07/10/22 19:36	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141145WPS

Date Collected: 06/14/22 11:45
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-6

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.2	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluoropentanoic acid	ND		1.9	0.46	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorohexanoic acid	**0.80**	**J**	1.9	0.54	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluoroheptanoic acid	**0.55**	**J**	1.9	0.23	ng/L		06/27/22 11:57	07/10/22 19:58	1
L-Perfluorooctanoic acid	ND		1.9	0.79	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorononanoic acid	**0.34**	**J I**	1.9	0.25	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorododecanoic acid	ND		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorotetradecanoic acid	ND		1.9	0.68	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorobutanesulfonic acid	**0.30**	**J**	1.9	0.19	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluoropentanesulfonic acid	ND		1.9	0.28	ng/L		06/27/22 11:57	07/10/22 19:58	1
L-Perfluorohexanesulfonic acid	**1.8**	**J**	1.9	0.53	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/27/22 11:57	07/10/22 19:58	1
L-Perfluorooctanesulfonic acid	**10**		1.9	0.50	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluorooctanesulfonamide	ND		1.9	0.91	ng/L		06/27/22 11:57	07/10/22 19:58	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:58	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:58	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.22	ng/L		06/27/22 11:57	07/10/22 19:58	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.3	ng/L		06/27/22 11:57	07/10/22 19:58	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 11:57	07/10/22 19:58	1
DONA	ND		1.9	0.37	ng/L		06/27/22 11:57	07/10/22 19:58	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 11:57	07/10/22 19:58	1
9Cl-PF3ONS	ND		1.9	0.22	ng/L		06/27/22 11:57	07/10/22 19:58	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 11:57	07/10/22 19:58	1
FHxSA	**0.29**	**J**	1.9	0.20	ng/L		06/27/22 11:57	07/10/22 19:58	1
FBSA	ND		1.9	0.32	ng/L		06/27/22 11:57	07/10/22 19:58	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 11:57	07/10/22 19:58	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:58	1
Total PFOA	ND		1.9	0.79	ng/L		06/27/22 11:57	07/10/22 19:58	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 19:58	1
Br-Perfluorooctanoic acid	ND		1.9	0.79	ng/L		06/27/22 11:57	07/10/22 19:58	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:58	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.53	ng/L		06/27/22 11:57	07/10/22 19:58	1
Br-Perfluorooctanesulfonic acid	**4.6**		1.9	0.50	ng/L		06/27/22 11:57	07/10/22 19:58	1
Total PFHxS	**1.8**	**J**	1.9	0.53	ng/L		06/27/22 11:57	07/10/22 19:58	1
Total PFOS	**15**		1.9	0.50	ng/L		06/27/22 11:57	07/10/22 19:58	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 19:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:58*	*1*
13C5 PFPeA	*107*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:58*	*1*
13C2 PFHxA	*105*		*25 - 150*	*06/27/22 11:57*	*07/10/22 19:58*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141145WPS
Lab Sample ID: 240-168450-6

Date Collected: 06/14/22 11:45
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	105		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C4 PFOA	101		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C5 PFNA	101		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C2 PFDA	101		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C2 PFUnA	99		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C2 PFDoA	90		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C2 PFTeDA	72		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C3 PFBS	97		25 - 150	06/27/22 11:57	07/10/22 19:58	1
18O2 PFHxS	97		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C4 PFOS	95		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C8 FOSA	95		25 - 150	06/27/22 11:57	07/10/22 19:58	1
d3-NMeFOSAA	100		25 - 150	06/27/22 11:57	07/10/22 19:58	1
d5-NEtFOSAA	100		25 - 150	06/27/22 11:57	07/10/22 19:58	1
M2-4:2 FTS	98		25 - 150	06/27/22 11:57	07/10/22 19:58	1
M2-6:2 FTS	99		25 - 150	06/27/22 11:57	07/10/22 19:58	1
M2-8:2 FTS	99		25 - 150	06/27/22 11:57	07/10/22 19:58	1
13C3 HFPO-DA	105		25 - 150	06/27/22 11:57	07/10/22 19:58	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141320WPS

Lab Sample ID: 240-168450-7

Date Collected: 06/14/22 13:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.3	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluoropentanoic acid	ND		1.9	0.46	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorohexanoic acid	ND		1.9	0.55	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluoroheptanoic acid	**0.35**	**J**	1.9	0.24	ng/L		06/27/22 11:57	07/10/22 20:21	1
L-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorononanoic acid	ND		1.9	0.25	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorotetradecanoic acid	ND		1.9	0.69	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorobutanesulfonic acid	**0.23**	**J**	1.9	0.19	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluoropentanesulfonic acid	ND		1.9	0.28	ng/L		06/27/22 11:57	07/10/22 20:21	1
L-Perfluorohexanesulfonic acid	**0.56**	**J**	1.9	0.54	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/27/22 11:57	07/10/22 20:21	1
L-Perfluorooctanesulfonic acid	**1.7**	**J**	1.9	0.51	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluorooctanesulfonamide	ND		1.9	0.92	ng/L		06/27/22 11:57	07/10/22 20:21	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 20:21	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 20:21	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 20:21	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.4	ng/L		06/27/22 11:57	07/10/22 20:21	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 11:57	07/10/22 20:21	1
DONA	ND		1.9	0.38	ng/L		06/27/22 11:57	07/10/22 20:21	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 11:57	07/10/22 20:21	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 20:21	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 11:57	07/10/22 20:21	1
FHxSA	ND		1.9	0.21	ng/L		06/27/22 11:57	07/10/22 20:21	1
FBSA	ND		1.9	0.33	ng/L		06/27/22 11:57	07/10/22 20:21	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 11:57	07/10/22 20:21	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 20:21	1
Total PFOA	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 20:21	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 20:21	1
Br-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 20:21	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 20:21	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 20:21	1
Br-Perfluorooctanesulfonic acid	**0.61**	**J**	1.9	0.51	ng/L		06/27/22 11:57	07/10/22 20:21	1
Total PFHxS	**0.56**	**J**	1.9	0.54	ng/L		06/27/22 11:57	07/10/22 20:21	1
Total PFOS	**2.3**		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 20:21	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 20:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*25 - 150*	*06/27/22 11:57*	*07/10/22 20:21*	*1*
13C5 PFPeA	*102*		*25 - 150*	*06/27/22 11:57*	*07/10/22 20:21*	*1*
13C2 PFHxA	*106*		*25 - 150*	*06/27/22 11:57*	*07/10/22 20:21*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141320WPS
Lab Sample ID: 240-168450-7
Date Collected: 06/14/22 13:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	105		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C4 PFOA	103		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C5 PFNA	104		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C2 PFDA	100		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C2 PFUnA	95		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C2 PFDoA	92		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C2 PFTeDA	74		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C3 PFBS	103		25 - 150	06/27/22 11:57	07/10/22 20:21	1
18O2 PFHxS	102		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C4 PFOS	99		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C8 FOSA	100		25 - 150	06/27/22 11:57	07/10/22 20:21	1
d3-NMeFOSAA	100		25 - 150	06/27/22 11:57	07/10/22 20:21	1
d5-NEtFOSAA	94		25 - 150	06/27/22 11:57	07/10/22 20:21	1
M2-4:2 FTS	107		25 - 150	06/27/22 11:57	07/10/22 20:21	1
M2-6:2 FTS	101		25 - 150	06/27/22 11:57	07/10/22 20:21	1
M2-8:2 FTS	100		25 - 150	06/27/22 11:57	07/10/22 20:21	1
13C3 HFPO-DA	106		25 - 150	06/27/22 11:57	07/10/22 20:21	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141415WPS

Lab Sample ID: 240-168450-8

Date Collected: 06/14/22 14:15
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.7	2.3	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluoropentanoic acid	ND		1.9	0.46	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorohexanoic acid	ND		1.9	0.55	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluoroheptanoic acid	**0.27**	**J**	1.9	0.24	ng/L		06/27/22 11:57	07/10/22 20:44	1
L-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorononanoic acid	ND		1.9	0.25	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorotetradecanoic acid	ND		1.9	0.69	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorobutanesulfonic acid	ND		1.9	0.19	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluoropentanesulfonic acid	ND		1.9	0.28	ng/L		06/27/22 11:57	07/10/22 20:44	1
L-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/27/22 11:57	07/10/22 20:44	1
L-Perfluorooctanesulfonic acid	**1.3**	**J**	1.9	0.51	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluorooctanesulfonamide	ND		1.9	0.92	ng/L		06/27/22 11:57	07/10/22 20:44	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 20:44	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 20:44	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 20:44	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.4	ng/L		06/27/22 11:57	07/10/22 20:44	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 11:57	07/10/22 20:44	1
DONA	ND		1.9	0.38	ng/L		06/27/22 11:57	07/10/22 20:44	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 11:57	07/10/22 20:44	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 11:57	07/10/22 20:44	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 11:57	07/10/22 20:44	1
FHxSA	ND		1.9	0.21	ng/L		06/27/22 11:57	07/10/22 20:44	1
FBSA	ND		1.9	0.33	ng/L		06/27/22 11:57	07/10/22 20:44	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 11:57	07/10/22 20:44	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 20:44	1
Total PFOA	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 20:44	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 11:57	07/10/22 20:44	1
Br-Perfluorooctanoic acid	ND		1.9	0.80	ng/L		06/27/22 11:57	07/10/22 20:44	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 20:44	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 20:44	1
Br-Perfluorooctanesulfonic acid	ND		1.9	0.51	ng/L		06/27/22 11:57	07/10/22 20:44	1
Total PFHxS	ND		1.9	0.54	ng/L		06/27/22 11:57	07/10/22 20:44	1
Total PFOS	**1.3**	**J**	1.9	0.51	ng/L		06/27/22 11:57	07/10/22 20:44	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 11:57	07/10/22 20:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*06/27/22 11:57*	*07/10/22 20:44*	*1*
13C5 PFPeA	*99*		*25 - 150*	*06/27/22 11:57*	*07/10/22 20:44*	*1*
13C2 PFHxA	*99*		*25 - 150*	*06/27/22 11:57*	*07/10/22 20:44*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141415WPS
Lab Sample ID: 240-168450-8
Date Collected: 06/14/22 14:15
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	100		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C4 PFOA	96		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C5 PFNA	98		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C2 PFDA	89		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C2 PFUnA	90		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C2 PFDoA	81		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C2 PFTeDA	68		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C3 PFBS	98		25 - 150	06/27/22 11:57	07/10/22 20:44	1
18O2 PFHxS	93		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C4 PFOS	90		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C8 FOSA	89		25 - 150	06/27/22 11:57	07/10/22 20:44	1
d3-NMeFOSAA	88		25 - 150	06/27/22 11:57	07/10/22 20:44	1
d5-NEtFOSAA	84		25 - 150	06/27/22 11:57	07/10/22 20:44	1
M2-4:2 FTS	95		25 - 150	06/27/22 11:57	07/10/22 20:44	1
M2-6:2 FTS	98		25 - 150	06/27/22 11:57	07/10/22 20:44	1
M2-8:2 FTS	96		25 - 150	06/27/22 11:57	07/10/22 20:44	1
13C3 HFPO-DA	104		25 - 150	06/27/22 11:57	07/10/22 20:44	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141520WPS

Date Collected: 06/14/22 15:20
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-9

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**5.8**		4.6	2.2	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluoropentanoic acid	**0.59**	**J**	1.8	0.45	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorohexanoic acid	**1.1**	**J**	1.8	0.54	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluoroheptanoic acid	**0.78**	**J**	1.8	0.23	ng/L		06/27/22 11:57	07/10/22 21:29	1
L-Perfluorooctanoic acid	**1.0**	**J**	1.8	0.78	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorononanoic acid	ND		1.8	0.25	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorodecanoic acid	ND		1.8	0.29	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluoroundecanoic acid	ND		1.8	1.0	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorododecanoic acid	ND		1.8	0.51	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorotetradecanoic acid	ND		1.8	0.67	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorobutanesulfonic acid	**1.0**	**J**	1.8	0.18	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluoropentanesulfonic acid	ND		1.8	0.28	ng/L		06/27/22 11:57	07/10/22 21:29	1
L-Perfluorohexanesulfonic acid	**0.58**	**J**	1.8	0.53	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluoroheptanesulfonic acid	ND		1.8	0.18	ng/L		06/27/22 11:57	07/10/22 21:29	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorononanesulfonic acid	ND		1.8	0.34	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorodecanesulfonic acid	ND		1.8	0.30	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluorooctanesulfonamide	ND		1.8	0.90	ng/L		06/27/22 11:57	07/10/22 21:29	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 11:57	07/10/22 21:29	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 11:57	07/10/22 21:29	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 11:57	07/10/22 21:29	1
6:2 Fluorotelomer sulfonic acid	ND		4.6	2.3	ng/L		06/27/22 11:57	07/10/22 21:29	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.42	ng/L		06/27/22 11:57	07/10/22 21:29	1
DONA	ND		1.8	0.37	ng/L		06/27/22 11:57	07/10/22 21:29	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 11:57	07/10/22 21:29	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 11:57	07/10/22 21:29	1
11Cl-PF3OUdS	ND	*+	1.8	0.30	ng/L		06/27/22 11:57	07/10/22 21:29	1
FHxSA	ND		1.8	0.20	ng/L		06/27/22 11:57	07/10/22 21:29	1
FBSA	ND		1.8	0.32	ng/L		06/27/22 11:57	07/10/22 21:29	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.42	ng/L		06/27/22 11:57	07/10/22 21:29	1
Total NEtFOSAA	ND		4.6	1.2	ng/L		06/27/22 11:57	07/10/22 21:29	1
Total PFOA	**1.0**	**J**	1.8	0.78	ng/L		06/27/22 11:57	07/10/22 21:29	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 11:57	07/10/22 21:29	1
Br-Perfluorooctanoic acid	ND		1.8	0.78	ng/L		06/27/22 11:57	07/10/22 21:29	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 11:57	07/10/22 21:29	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.53	ng/L		06/27/22 11:57	07/10/22 21:29	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 21:29	1
Total PFHxS	**0.58**	**J**	1.8	0.53	ng/L		06/27/22 11:57	07/10/22 21:29	1
Total PFOS	ND		1.8	0.50	ng/L		06/27/22 11:57	07/10/22 21:29	1
Total NMeFOSAA	ND		4.6	1.1	ng/L		06/27/22 11:57	07/10/22 21:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*65*		*25 - 150*	*06/27/22 11:57*	*07/10/22 21:29*	*1*
13C5 PFPeA	*82*		*25 - 150*	*06/27/22 11:57*	*07/10/22 21:29*	*1*
13C2 PFHxA	*84*		*25 - 150*	*06/27/22 11:57*	*07/10/22 21:29*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141520WPS
Lab Sample ID: 240-168450-9
Date Collected: 06/14/22 15:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	86		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C4 PFOA	84		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C5 PFNA	82		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C2 PFDA	77		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C2 PFUnA	75		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C2 PFDoA	74		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C2 PFTeDA	61		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C3 PFBS	82		25 - 150	06/27/22 11:57	07/10/22 21:29	1
18O2 PFHxS	81		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C4 PFOS	76		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C8 FOSA	80		25 - 150	06/27/22 11:57	07/10/22 21:29	1
d3-NMeFOSAA	79		25 - 150	06/27/22 11:57	07/10/22 21:29	1
d5-NEtFOSAA	77		25 - 150	06/27/22 11:57	07/10/22 21:29	1
M2-4:2 FTS	84		25 - 150	06/27/22 11:57	07/10/22 21:29	1
M2-6:2 FTS	80		25 - 150	06/27/22 11:57	07/10/22 21:29	1
M2-8:2 FTS	80		25 - 150	06/27/22 11:57	07/10/22 21:29	1
13C3 HFPO-DA	85		25 - 150	06/27/22 11:57	07/10/22 21:29	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: SW2206141520WPS-FD

Lab Sample ID: 240-168450-10

Date Collected: 06/14/22 15:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**6.1**		4.7	2.2	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluoropentanoic acid	**0.84**	**J**	1.9	0.46	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorohexanoic acid	**1.1**	**J**	1.9	0.54	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluoroheptanoic acid	**0.67**	**J**	1.9	0.23	ng/L		06/27/22 12:14	07/10/22 22:37	1
L-Perfluorooctanoic acid	**1.1**	**J**	1.9	0.79	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorononanoic acid	ND		1.9	0.25	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorododecanoic acid	ND		1.9	0.51	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorotetradecanoic acid	ND		1.9	0.68	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorobutanesulfonic acid	**1.0**	**J**	1.9	0.19	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluoropentanesulfonic acid	ND		1.9	0.28	ng/L		06/27/22 12:14	07/10/22 22:37	1
L-Perfluorohexanesulfonic acid	**0.57**	**J**	1.9	0.53	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/27/22 12:14	07/10/22 22:37	1
L-Perfluorooctanesulfonic acid	ND		1.9	0.50	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluorooctanesulfonamide	ND		1.9	0.92	ng/L		06/27/22 12:14	07/10/22 22:37	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:14	07/10/22 22:37	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 12:14	07/10/22 22:37	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.22	ng/L		06/27/22 12:14	07/10/22 22:37	1
6:2 Fluorotelomer sulfonic acid	ND		4.7	2.3	ng/L		06/27/22 12:14	07/10/22 22:37	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 12:14	07/10/22 22:37	1
DONA	ND		1.9	0.37	ng/L		06/27/22 12:14	07/10/22 22:37	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 12:14	07/10/22 22:37	1
9Cl-PF3ONS	ND		1.9	0.22	ng/L		06/27/22 12:14	07/10/22 22:37	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 12:14	07/10/22 22:37	1
FHxSA	ND		1.9	0.20	ng/L		06/27/22 12:14	07/10/22 22:37	1
FBSA	ND		1.9	0.32	ng/L		06/27/22 12:14	07/10/22 22:37	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 12:14	07/10/22 22:37	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 12:14	07/10/22 22:37	1
Total PFOA	**1.1**	**J**	1.9	0.79	ng/L		06/27/22 12:14	07/10/22 22:37	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 12:14	07/10/22 22:37	1
Br-Perfluorooctanoic acid	ND		1.9	0.79	ng/L		06/27/22 12:14	07/10/22 22:37	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:14	07/10/22 22:37	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.53	ng/L		06/27/22 12:14	07/10/22 22:37	1
Br-Perfluorooctanesulfonic acid	ND		1.9	0.50	ng/L		06/27/22 12:14	07/10/22 22:37	1
Total PFHxS	**0.57**	**J**	1.9	0.53	ng/L		06/27/22 12:14	07/10/22 22:37	1
Total PFOS	ND		1.9	0.50	ng/L		06/27/22 12:14	07/10/22 22:37	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 12:14	07/10/22 22:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71*		*25 - 150*	*06/27/22 12:14*	*07/10/22 22:37*	*1*
13C5 PFPeA	*102*		*25 - 150*	*06/27/22 12:14*	*07/10/22 22:37*	*1*
13C2 PFHxA	*105*		*25 - 150*	*06/27/22 12:14*	*07/10/22 22:37*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141520WPS-FD
Lab Sample ID: 240-168450-10
Date Collected: 06/14/22 15:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	110		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C4 PFOA	104		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C5 PFNA	102		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C2 PFDA	100		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C2 PFUnA	97		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C2 PFDoA	88		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C2 PFTeDA	65		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C3 PFBS	100		25 - 150	06/27/22 12:14	07/10/22 22:37	1
18O2 PFHxS	98		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C4 PFOS	96		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C8 FOSA	99		25 - 150	06/27/22 12:14	07/10/22 22:37	1
d3-NMeFOSAA	99		25 - 150	06/27/22 12:14	07/10/22 22:37	1
d5-NEtFOSAA	97		25 - 150	06/27/22 12:14	07/10/22 22:37	1
M2-4:2 FTS	105		25 - 150	06/27/22 12:14	07/10/22 22:37	1
M2-6:2 FTS	107		25 - 150	06/27/22 12:14	07/10/22 22:37	1
M2-8:2 FTS	104		25 - 150	06/27/22 12:14	07/10/22 22:37	1
13C3 HFPO-DA	107		25 - 150	06/27/22 12:14	07/10/22 22:37	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206141750WPS

Date Collected: 06/14/22 17:50
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-11

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**32**		4.6	2.2	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluoropentanoic acid	**77**		1.8	0.45	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorohexanoic acid	**55**		1.8	0.53	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluoroheptanoic acid	**49**		1.8	0.23	ng/L		06/27/22 12:14	07/10/22 23:00	1
L-Perfluorooctanoic acid	**60**		1.8	0.78	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorononanoic acid	**11**		1.8	0.25	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorodecanoic acid	**1.7**	**J**	1.8	0.28	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluoroundecanoic acid	ND		1.8	1.0	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorododecanoic acid	ND		1.8	0.51	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorotetradecanoic acid	ND		1.8	0.67	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorobutanesulfonic acid	**20**		1.8	0.18	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluoropentanesulfonic acid	**44**		1.8	0.28	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluoroheptanesulfonic acid	**20**		1.8	0.17	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorononanesulfonic acid	**0.66**	**J I**	1.8	0.34	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluorooctanesulfonamide	ND		1.8	0.90	ng/L		06/27/22 12:14	07/10/22 23:00	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 12:14	07/10/22 23:00	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 12:14	07/10/22 23:00	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 12:14	07/10/22 23:00	1
6:2 Fluorotelomer sulfonic acid	**4.8**		4.6	2.3	ng/L		06/27/22 12:14	07/10/22 23:00	1
8:2 Fluorotelomer sulfonic acid	**2.6**		1.8	0.42	ng/L		06/27/22 12:14	07/10/22 23:00	1
DONA	ND		1.8	0.37	ng/L		06/27/22 12:14	07/10/22 23:00	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 12:14	07/10/22 23:00	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 12:14	07/10/22 23:00	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 12:14	07/10/22 23:00	1
FHxSA	**37**		1.8	0.20	ng/L		06/27/22 12:14	07/10/22 23:00	1
FBSA	**63**		1.8	0.32	ng/L		06/27/22 12:14	07/10/22 23:00	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		06/27/22 12:14	07/10/22 23:00	1
Total NEtFOSAA	ND		4.6	1.2	ng/L		06/27/22 12:14	07/10/22 23:00	1
Total PFOA	**67**		1.8	0.78	ng/L		06/27/22 12:14	07/10/22 23:00	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 12:14	07/10/22 23:00	1
Br-Perfluorooctanoic acid	**6.5**		1.8	0.78	ng/L		06/27/22 12:14	07/10/22 23:00	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 12:14	07/10/22 23:00	1
Total NMeFOSAA	ND		4.6	1.1	ng/L		06/27/22 12:14	07/10/22 23:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*72*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C5 PFPeA	*105*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C2 PFHxA	*101*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C4 PFHpA	*101*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C4 PFOA	*101*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C5 PFNA	*100*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C2 PFDA	*97*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C2 PFUnA	*91*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C2 PFDoA	*78*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*

Client Sample ID: GW2206141750WPS
Lab Sample ID: 240-168450-11

Date Collected: 06/14/22 17:50
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*70*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C3 PFBS	*104*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C4 PFOS	*92*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C8 FOSA	*96*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
d3-NMeFOSAA	*92*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
d5-NEtFOSAA	*82*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
M2-4:2 FTS	*108*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
M2-6:2 FTS	*105*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*
13C3 HFPO-DA	*102*		*25 - 150*	*06/27/22 12:14*	*07/10/22 23:00*	*1*

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorohexanesulfonic acid	**640**		18	5.2	ng/L		06/27/22 12:14	07/14/22 15:59	10
L-Perfluorooctanesulfonic acid	**1500**		18	5.0	ng/L		06/27/22 12:14	07/14/22 15:59	10
Br-Perfluorohexanesulfonic acid	**75**		18	5.2	ng/L		06/27/22 12:14	07/14/22 15:59	10
Br-Perfluorooctanesulfonic acid	**460**		18	5.0	ng/L		06/27/22 12:14	07/14/22 15:59	10
Total PFHxS	**710**		18	5.2	ng/L		06/27/22 12:14	07/14/22 15:59	10
Total PFOS	**1900**		18	5.0	ng/L		06/27/22 12:14	07/14/22 15:59	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*97*		*25 - 150*	*06/27/22 12:14*	*07/14/22 15:59*	*10*
13C4 PFOS	*86*		*25 - 150*	*06/27/22 12:14*	*07/14/22 15:59*	*10*

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206141750WPS-FD

Lab Sample ID: 240-168450-12

Date Collected: 06/14/22 17:50
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**30**		4.5	2.2	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluoropentanoic acid	**76**		1.8	0.44	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorohexanoic acid	**56**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluoroheptanoic acid	**47**		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 00:07	1
L-Perfluorooctanoic acid	**61**		1.8	0.76	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorononanoic acid	**10**		1.8	0.24	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorodecanoic acid	**1.9**		1.8	0.28	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluoroundecanoic acid	ND		1.8	0.99	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorododecanoic acid	ND		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorotetradecanoic acid	ND		1.8	0.66	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorobutanesulfonic acid	**20**		1.8	0.18	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluoropentanesulfonic acid	**43**		1.8	0.27	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluoroheptanesulfonic acid	**22**		1.8	0.17	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorononanesulfonic acid	**0.68**	**J I**	1.8	0.33	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluorooctanesulfonamide	**0.88**	**J**	1.8	0.88	ng/L		06/27/22 12:20	07/11/22 00:07	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 00:07	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 00:07	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 00:07	1
6:2 Fluorotelomer sulfonic acid	**4.2**	**J**	4.5	2.2	ng/L		06/27/22 12:20	07/11/22 00:07	1
8:2 Fluorotelomer sulfonic acid	**2.7**		1.8	0.41	ng/L		06/27/22 12:20	07/11/22 00:07	1
DONA	ND		1.8	0.36	ng/L		06/27/22 12:20	07/11/22 00:07	1
HFPODA	ND		3.6	1.3	ng/L		06/27/22 12:20	07/11/22 00:07	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 00:07	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 12:20	07/11/22 00:07	1
FHxSA	**36**		1.8	0.20	ng/L		06/27/22 12:20	07/11/22 00:07	1
FBSA	**62**		1.8	0.31	ng/L		06/27/22 12:20	07/11/22 00:07	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.40	ng/L		06/27/22 12:20	07/11/22 00:07	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 00:07	1
Total PFOA	**67**		1.8	0.76	ng/L		06/27/22 12:20	07/11/22 00:07	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 00:07	1
Br-Perfluorooctanoic acid	**6.5**		1.8	0.76	ng/L		06/27/22 12:20	07/11/22 00:07	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 00:07	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 00:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C5 PFPeA	*108*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C2 PFHxA	*107*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C4 PFHpA	*107*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C4 PFOA	*105*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C5 PFNA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C2 PFDA	*102*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C2 PFUnA	*93*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*
13C2 PFDoA	*88*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:07*	*1*

Client Sample ID: GW2206141750WPS-FD
Lab Sample ID: 240-168450-12

Date Collected: 06/14/22 17:50
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	78		25 - 150	06/27/22 12:20	07/11/22 00:07	1
13C3 PFBS	109		25 - 150	06/27/22 12:20	07/11/22 00:07	1
13C4 PFOS	97		25 - 150	06/27/22 12:20	07/11/22 00:07	1
13C8 FOSA	101		25 - 150	06/27/22 12:20	07/11/22 00:07	1
d3-NMeFOSAA	99		25 - 150	06/27/22 12:20	07/11/22 00:07	1
d5-NEtFOSAA	94		25 - 150	06/27/22 12:20	07/11/22 00:07	1
M2-4:2 FTS	113		25 - 150	06/27/22 12:20	07/11/22 00:07	1
M2-6:2 FTS	107		25 - 150	06/27/22 12:20	07/11/22 00:07	1
M2-8:2 FTS	105		25 - 150	06/27/22 12:20	07/11/22 00:07	1
13C3 HFPO-DA	107		25 - 150	06/27/22 12:20	07/11/22 00:07	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorohexanesulfonic acid	**660**		18	5.1	ng/L		06/27/22 12:20	07/14/22 19:00	10
L-Perfluorooctanesulfonic acid	**1500**		18	4.9	ng/L		06/27/22 12:20	07/14/22 19:00	10
Br-Perfluorohexanesulfonic acid	**75**		18	5.1	ng/L		06/27/22 12:20	07/14/22 19:00	10
Br-Perfluorooctanesulfonic acid	**450**		18	4.9	ng/L		06/27/22 12:20	07/14/22 19:00	10
Total PFHxS	**730**		18	5.1	ng/L		06/27/22 12:20	07/14/22 19:00	10
Total PFOS	**1900**		18	4.9	ng/L		06/27/22 12:20	07/14/22 19:00	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	99		25 - 150	06/27/22 12:20	07/14/22 19:00	10
13C4 PFOS	95		25 - 150	06/27/22 12:20	07/14/22 19:00	10

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206150920WPS

Lab Sample ID: 240-168450-13

Date Collected: 06/15/22 09:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**26**		4.5	2.2	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluoropentanoic acid	**90**		1.8	0.45	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorohexanoic acid	**110**		1.8	0.53	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluoroheptanoic acid	**70**		1.8	0.23	ng/L		06/27/22 12:20	07/11/22 00:30	1
L-Perfluorooctanoic acid	**140**		1.8	0.77	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorononanoic acid	**39**		1.8	0.25	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorodecanoic acid	**4.7**		1.8	0.28	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluoroundecanoic acid	**2.3**		1.8	1.0	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorododecanoic acid	ND		1.8	0.50	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorotetradecanoic acid	ND		1.8	0.66	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorobutanesulfonic acid	**51**		1.8	0.18	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluoropentanesulfonic acid	**120**		1.8	0.27	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluoroheptanesulfonic acid	**260**		1.8	0.17	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorononanesulfonic acid	**20**		1.8	0.34	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluorooctanesulfonamide	**5.0**		1.8	0.89	ng/L		06/27/22 12:20	07/11/22 00:30	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 00:30	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 00:30	1
4:2 Fluorotelomer sulfonic acid	**1.5**	**J**	1.8	0.22	ng/L		06/27/22 12:20	07/11/22 00:30	1
DONA	ND		1.8	0.36	ng/L		06/27/22 12:20	07/11/22 00:30	1
HFPODA	ND		3.6	1.4	ng/L		06/27/22 12:20	07/11/22 00:30	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 00:30	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 12:20	07/11/22 00:30	1
FBSA	**310**		1.8	0.32	ng/L		06/27/22 12:20	07/11/22 00:30	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		06/27/22 12:20	07/11/22 00:30	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 00:30	1
Total PFOA	**150**		1.8	0.77	ng/L		06/27/22 12:20	07/11/22 00:30	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 00:30	1
Br-Perfluorooctanoic acid	**13**		1.8	0.77	ng/L		06/27/22 12:20	07/11/22 00:30	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 00:30	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 00:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C5 PFPeA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C2 PFHxA	*94*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C4 PFHpA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C4 PFOA	*94*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C5 PFNA	*88*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C2 PFDA	*88*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C2 PFUnA	*78*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C2 PFDoA	*72*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C2 PFTeDA	*68*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C3 PFBS	*97*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*
13C4 PFOS	*73*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:30*	*1*

Client Sample ID: GW2206150920WPS
Lab Sample ID: 240-168450-13

Date Collected: 06/15/22 09:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	84		25 - 150	06/27/22 12:20	07/11/22 00:30	1
d3-NMeFOSAA	80		25 - 150	06/27/22 12:20	07/11/22 00:30	1
d5-NEtFOSAA	77		25 - 150	06/27/22 12:20	07/11/22 00:30	1
M2-4:2 FTS	102		25 - 150	06/27/22 12:20	07/11/22 00:30	1
13C3 HFPO-DA	98		25 - 150	06/27/22 12:20	07/11/22 00:30	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorohexanesulfonic acid	2000		91	26	ng/L		06/27/22 12:20	07/14/22 20:07	50
L-Perfluorooctanesulfonic acid	16000		91	25	ng/L		06/27/22 12:20	07/14/22 20:07	50
6:2 Fluorotelomer sulfonic acid	820		230	110	ng/L		06/27/22 12:20	07/14/22 20:07	50
8:2 Fluorotelomer sulfonic acid	370		91	21	ng/L		06/27/22 12:20	07/14/22 20:07	50
FHxSA	1600		91	10	ng/L		06/27/22 12:20	07/14/22 20:07	50
Br-Perfluorohexanesulfonic acid	250		91	26	ng/L		06/27/22 12:20	07/14/22 20:07	50
Br-Perfluorooctanesulfonic acid	7600		91	25	ng/L		06/27/22 12:20	07/14/22 20:07	50
Total PFHxS	2200		91	26	ng/L		06/27/22 12:20	07/14/22 20:07	50
Total PFOS	24000		91	25	ng/L		06/27/22 12:20	07/14/22 20:07	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	82		25 - 150	06/27/22 12:20	07/14/22 20:07	50
13C4 PFOS	70		25 - 150	06/27/22 12:20	07/14/22 20:07	50
13C8 FOSA	77		25 - 150	06/27/22 12:20	07/14/22 20:07	50
M2-6:2 FTS	105		25 - 150	06/27/22 12:20	07/14/22 20:07	50
M2-8:2 FTS	103		25 - 150	06/27/22 12:20	07/14/22 20:07	50

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151040WPS

Date Collected: 06/15/22 10:40
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-14

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**4.8**	**F1**	4.8	2.3	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluoropentanoic acid	**2.5**	**F1**	1.9	0.47	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorohexanoic acid	**7.2**	**F1**	1.9	0.56	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluoroheptanoic acid	**1.3**	**J F1**	1.9	0.24	ng/L		06/27/22 12:20	07/11/22 01:38	1
L-Perfluorooctanoic acid	**2.8**	**F1**	1.9	0.82	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorononanoic acid	ND	F1	1.9	0.26	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorodecanoic acid	ND	F1	1.9	0.30	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluoroundecanoic acid	ND	F1	1.9	1.1	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorododecanoic acid	ND	F1	1.9	0.53	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorotridecanoic acid	ND	F1	1.9	1.3	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorotetradecanoic acid	ND	F1	1.9	0.71	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorobutanesulfonic acid	**16**	**F1**	1.9	0.19	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluoropentanesulfonic acid	**14**	**F1**	1.9	0.29	ng/L		06/27/22 12:20	07/11/22 01:38	1
L-Perfluorohexanesulfonic acid	**110**	**F1**	1.9	0.55	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluoroheptanesulfonic acid	**2.8**	**F1**	1.9	0.18	ng/L		06/27/22 12:20	07/11/22 01:38	1
L-Perfluorooctanesulfonic acid	**160**		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorononanesulfonic acid	ND	F1	1.9	0.36	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorodecanesulfonic acid	ND	F1	1.9	0.31	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluorooctanesulfonamide	ND	F1	1.9	0.95	ng/L		06/27/22 12:20	07/11/22 01:38	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND	F1	4.8	1.2	ng/L		06/27/22 12:20	07/11/22 01:38	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND	F1	4.8	1.3	ng/L		06/27/22 12:20	07/11/22 01:38	1
4:2 Fluorotelomer sulfonic acid	ND	F1	1.9	0.23	ng/L		06/27/22 12:20	07/11/22 01:38	1
6:2 Fluorotelomer sulfonic acid	ND		4.8	2.4	ng/L		06/27/22 12:20	07/11/22 01:38	1
8:2 Fluorotelomer sulfonic acid	ND	F1	1.9	0.45	ng/L		06/27/22 12:20	07/11/22 01:38	1
DONA	ND	F1	1.9	0.39	ng/L		06/27/22 12:20	07/11/22 01:38	1
HFPODA	ND		3.9	1.5	ng/L		06/27/22 12:20	07/11/22 01:38	1
9Cl-PF3ONS	ND	F1	1.9	0.23	ng/L		06/27/22 12:20	07/11/22 01:38	1
11Cl-PF3OUdS	ND	*+ F1	1.9	0.31	ng/L		06/27/22 12:20	07/11/22 01:38	1
FHxSA	**2.5**		1.9	0.21	ng/L		06/27/22 12:20	07/11/22 01:38	1
FBSA	**1.4**	**J**	1.9	0.34	ng/L		06/27/22 12:20	07/11/22 01:38	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	F1	1.9	0.44	ng/L		06/27/22 12:20	07/11/22 01:38	1
Total NEtFOSAA	ND	F1	4.8	1.3	ng/L		06/27/22 12:20	07/11/22 01:38	1
Total PFOA	**2.8**	**F1**	1.9	0.82	ng/L		06/27/22 12:20	07/11/22 01:38	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.8	1.3	ng/L		06/27/22 12:20	07/11/22 01:38	1
Br-Perfluorooctanoic acid	ND		1.9	0.82	ng/L		06/27/22 12:20	07/11/22 01:38	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 01:38	1
Br-Perfluorohexanesulfonic acid	**20**		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 01:38	1
Br-Perfluorooctanesulfonic acid	**56**		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 01:38	1
Total PFHxS	**130**	**F1**	1.9	0.55	ng/L		06/27/22 12:20	07/11/22 01:38	1
Total PFOS	**210**		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 01:38	1
Total NMeFOSAA	ND	F1	4.8	1.2	ng/L		06/27/22 12:20	07/11/22 01:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85*		*25 - 150*	*06/27/22 12:20*	*07/11/22 01:38*	*1*
13C5 PFPeA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 01:38*	*1*
13C2 PFHxA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 01:38*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151040WPS
Lab Sample ID: 240-168450-14
Date Collected: 06/15/22 10:40
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	108		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C4 PFOA	103		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C5 PFNA	102		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C2 PFDA	101		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C2 PFUnA	97		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C2 PFDoA	85		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C2 PFTeDA	74		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C3 PFBS	102		25 - 150	06/27/22 12:20	07/11/22 01:38	1
18O2 PFHxS	97		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C4 PFOS	93		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C8 FOSA	96		25 - 150	06/27/22 12:20	07/11/22 01:38	1
d3-NMeFOSAA	99		25 - 150	06/27/22 12:20	07/11/22 01:38	1
d5-NEtFOSAA	92		25 - 150	06/27/22 12:20	07/11/22 01:38	1
M2-4:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 01:38	1
M2-6:2 FTS	100		25 - 150	06/27/22 12:20	07/11/22 01:38	1
M2-8:2 FTS	102		25 - 150	06/27/22 12:20	07/11/22 01:38	1
13C3 HFPO-DA	104		25 - 150	06/27/22 12:20	07/11/22 01:38	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151130WPS

Date Collected: 06/15/22 11:30
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-15

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**32**		4.8	2.3	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluoropentanoic acid	**83**		1.9	0.47	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorohexanoic acid	**48**		1.9	0.56	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluoroheptanoic acid	**33**		1.9	0.24	ng/L		06/27/22 12:20	07/11/22 02:46	1
L-Perfluorooctanoic acid	**36**		1.9	0.82	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorononanoic acid	**12**		1.9	0.26	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorodecanoic acid	ND		1.9	0.30	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluoroundecanoic acid	ND		1.9	1.1	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorododecanoic acid	ND		1.9	0.53	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorotetradecanoic acid	ND		1.9	0.70	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorobutanesulfonic acid	**14**		1.9	0.19	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluoropentanesulfonic acid	**16**		1.9	0.29	ng/L		06/27/22 12:20	07/11/22 02:46	1
L-Perfluorohexanesulfonic acid	**170**		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluoroheptanesulfonic acid	**9.0**		1.9	0.18	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorodecanesulfonic acid	ND		1.9	0.31	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluorooctanesulfonamide	ND		1.9	0.94	ng/L		06/27/22 12:20	07/11/22 02:46	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1
4:2 Fluorotelomer sulfonic acid	**0.32**	**J**	1.9	0.23	ng/L		06/27/22 12:20	07/11/22 02:46	1
6:2 Fluorotelomer sulfonic acid	**9.7**		4.8	2.4	ng/L		06/27/22 12:20	07/11/22 02:46	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.44	ng/L		06/27/22 12:20	07/11/22 02:46	1
DONA	ND		1.9	0.38	ng/L		06/27/22 12:20	07/11/22 02:46	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 12:20	07/11/22 02:46	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 02:46	1
11Cl-PF3OUdS	ND	*+	1.9	0.31	ng/L		06/27/22 12:20	07/11/22 02:46	1
FHxSA	**5.2**		1.9	0.21	ng/L		06/27/22 12:20	07/11/22 02:46	1
FBSA	**23**		1.9	0.33	ng/L		06/27/22 12:20	07/11/22 02:46	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.43	ng/L		06/27/22 12:20	07/11/22 02:46	1
Total NEtFOSAA	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1
Total PFOA	**37**		1.9	0.82	ng/L		06/27/22 12:20	07/11/22 02:46	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1
Br-Perfluorooctanoic acid	**1.3**	**J**	1.9	0.82	ng/L		06/27/22 12:20	07/11/22 02:46	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1
Br-Perfluorohexanesulfonic acid	**24**		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 02:46	1
Total PFHxS	**190**		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 02:46	1
Total NMeFOSAA	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 02:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*06/27/22 12:20*	*07/11/22 02:46*	*1*
13C5 PFPeA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 02:46*	*1*
13C2 PFHxA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 02:46*	*1*
13C4 PFHpA	*101*		*25 - 150*	*06/27/22 12:20*	*07/11/22 02:46*	*1*
13C4 PFOA	*96*		*25 - 150*	*06/27/22 12:20*	*07/11/22 02:46*	*1*
13C5 PFNA	*95*		*25 - 150*	*06/27/22 12:20*	*07/11/22 02:46*	*1*

Client Sample ID: GW2206151130WPS
Lab Sample ID: 240-168450-15

Date Collected: 06/15/22 11:30
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C2 PFUnA	96		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C2 PFDoA	86		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C2 PFTeDA	69		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C3 PFBS	99		25 - 150	06/27/22 12:20	07/11/22 02:46	1
18O2 PFHxS	99		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C4 PFOS	93		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C8 FOSA	93		25 - 150	06/27/22 12:20	07/11/22 02:46	1
d3-NMeFOSAA	98		25 - 150	06/27/22 12:20	07/11/22 02:46	1
d5-NEtFOSAA	97		25 - 150	06/27/22 12:20	07/11/22 02:46	1
M2-4:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 02:46	1
M2-6:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 02:46	1
M2-8:2 FTS	103		25 - 150	06/27/22 12:20	07/11/22 02:46	1
13C3 HFPO-DA	104		25 - 150	06/27/22 12:20	07/11/22 02:46	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorooctanesulfonic acid	780		9.6	2.6	ng/L		06/27/22 12:20	07/14/22 17:52	5
Br-Perfluorooctanesulfonic acid	260		9.6	2.6	ng/L		06/27/22 12:20	07/14/22 17:52	5
Total PFOS	1000		9.6	2.6	ng/L		06/27/22 12:20	07/14/22 17:52	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	88		25 - 150	06/27/22 12:20	07/14/22 17:52	5

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151220WPS

Date Collected: 06/15/22 12:20
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-16

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**160**		4.7	2.3	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluoroheptanoic acid	**350**		1.9	0.24	ng/L		06/27/22 12:20	07/11/22 03:08	1
L-Perfluorooctanoic acid	**250**		1.9	0.80	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorononanoic acid	**67**		1.9	0.25	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorodecanoic acid	**0.98**	**J**	1.9	0.29	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorotetradecanoic acid	ND		1.9	0.69	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorobutanesulfonic acid	**210**		1.9	0.19	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluoropentanesulfonic acid	**250**		1.9	0.28	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluoroheptanesulfonic acid	**180**		1.9	0.18	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorononanesulfonic acid	**1.3**	**J I**	1.9	0.35	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluorooctanesulfonamide	ND		1.9	0.92	ng/L		06/27/22 12:20	07/11/22 03:08	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 03:08	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 03:08	1
4:2 Fluorotelomer sulfonic acid	**6.9**		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 03:08	1
8:2 Fluorotelomer sulfonic acid	**26**		1.9	0.43	ng/L		06/27/22 12:20	07/11/22 03:08	1
DONA	ND		1.9	0.38	ng/L		06/27/22 12:20	07/11/22 03:08	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 12:20	07/11/22 03:08	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 03:08	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 12:20	07/11/22 03:08	1
FBSA	**170**		1.9	0.33	ng/L		06/27/22 12:20	07/11/22 03:08	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 12:20	07/11/22 03:08	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 03:08	1
Total PFOA	**270**		1.9	0.80	ng/L		06/27/22 12:20	07/11/22 03:08	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 03:08	1
Br-Perfluorooctanoic acid	**23**		1.9	0.80	ng/L		06/27/22 12:20	07/11/22 03:08	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 03:08	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 03:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*80*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C4 PFHpA	*102*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C4 PFOA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C5 PFNA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C2 PFDA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C2 PFUnA	*96*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C2 PFDoA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C2 PFTeDA	*83*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C3 PFBS	*105*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C4 PFOS	*86*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
d3-NMeFOSAA	*102*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:08*	*1*

Client Sample ID: GW2206151220WPS
Lab Sample ID: 240-168450-16

Date Collected: 06/15/22 12:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	97		25 - 150	06/27/22 12:20	07/11/22 03:08	1
M2-8:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 03:08	1
13C3 HFPO-DA	102		25 - 150	06/27/22 12:20	07/11/22 03:08	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid	520		94	23	ng/L		06/27/22 12:20	07/14/22 20:30	50
Perfluorohexanoic acid	950		94	27	ng/L		06/27/22 12:20	07/14/22 20:30	50
L-Perfluorohexanesulfonic acid	2200		94	27	ng/L		06/27/22 12:20	07/14/22 20:30	50
L-Perfluorooctanesulfonic acid	10000		94	25	ng/L		06/27/22 12:20	07/14/22 20:30	50
6:2 Fluorotelomer sulfonic acid	450		240	120	ng/L		06/27/22 12:20	07/14/22 20:30	50
FHxSA	390		94	10	ng/L		06/27/22 12:20	07/14/22 20:30	50
Br-Perfluorohexanesulfonic acid	310		94	27	ng/L		06/27/22 12:20	07/14/22 20:30	50
Br-Perfluorooctanesulfonic acid	5800		94	25	ng/L		06/27/22 12:20	07/14/22 20:30	50
Total PFHxS	2500		94	27	ng/L		06/27/22 12:20	07/14/22 20:30	50
Total PFOS	16000		94	25	ng/L		06/27/22 12:20	07/14/22 20:30	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	96		25 - 150	06/27/22 12:20	07/14/22 20:30	50
13C2 PFHxA	101		25 - 150	06/27/22 12:20	07/14/22 20:30	50
18O2 PFHxS	91		25 - 150	06/27/22 12:20	07/14/22 20:30	50
13C4 PFOS	81		25 - 150	06/27/22 12:20	07/14/22 20:30	50
13C8 FOSA	86		25 - 150	06/27/22 12:20	07/14/22 20:30	50
M2-6:2 FTS	122		25 - 150	06/27/22 12:20	07/14/22 20:30	50

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151405WPS

Date Collected: 06/15/22 14:05
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-17

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**100**		4.7	2.2	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluoropentanoic acid	**340**		1.9	0.46	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluoroheptanoic acid	**260**		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 03:31	1
L-Perfluorooctanoic acid	**180**		1.9	0.79	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorononanoic acid	**81**		1.9	0.25	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorodecanoic acid	**4.9**		1.9	0.29	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorododecanoic acid	ND		1.9	0.51	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorotetradecanoic acid	ND		1.9	0.68	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorobutanesulfonic acid	**72**		1.9	0.19	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluoropentanesulfonic acid	**110**		1.9	0.28	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluoroheptanesulfonic acid	**56**		1.9	0.18	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorononanesulfonic acid	**12**		1.9	0.34	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluorooctanesulfonamide	**6.8**		1.9	0.91	ng/L		06/27/22 12:20	07/11/22 03:31	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 03:31	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 03:31	1
4:2 Fluorotelomer sulfonic acid	**2.6**		1.9	0.22	ng/L		06/27/22 12:20	07/11/22 03:31	1
6:2 Fluorotelomer sulfonic acid	**330**		4.7	2.3	ng/L		06/27/22 12:20	07/11/22 03:31	1
8:2 Fluorotelomer sulfonic acid	**100**		1.9	0.43	ng/L		06/27/22 12:20	07/11/22 03:31	1
DONA	ND		1.9	0.37	ng/L		06/27/22 12:20	07/11/22 03:31	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 12:20	07/11/22 03:31	1
9Cl-PF3ONS	ND		1.9	0.22	ng/L		06/27/22 12:20	07/11/22 03:31	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 12:20	07/11/22 03:31	1
FBSA	**100**		1.9	0.32	ng/L		06/27/22 12:20	07/11/22 03:31	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 12:20	07/11/22 03:31	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 03:31	1
Total PFOA	**190**		1.9	0.79	ng/L		06/27/22 12:20	07/11/22 03:31	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 03:31	1
Br-Perfluorooctanoic acid	**13**		1.9	0.79	ng/L		06/27/22 12:20	07/11/22 03:31	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 03:31	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 03:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C5 PFPeA	*99*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C4 PFHpA	*106*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C4 PFOA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C5 PFNA	*97*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C2 PFDA	*100*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C2 PFUnA	*100*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C2 PFDoA	*96*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C2 PFTeDA	*81*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C3 PFBS	*102*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*
13C4 PFOS	*84*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:31*	*1*

Client Sample ID: GW2206151405WPS
Lab Sample ID: 240-168450-17

Date Collected: 06/15/22 14:05
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	95		25 - 150	06/27/22 12:20	07/11/22 03:31	1
d3-NMeFOSAA	101		25 - 150	06/27/22 12:20	07/11/22 03:31	1
d5-NEtFOSAA	94		25 - 150	06/27/22 12:20	07/11/22 03:31	1
M2-4:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 03:31	1
M2-6:2 FTS	98		25 - 150	06/27/22 12:20	07/11/22 03:31	1
M2-8:2 FTS	103		25 - 150	06/27/22 12:20	07/11/22 03:31	1
13C3 HFPO-DA	107		25 - 150	06/27/22 12:20	07/11/22 03:31	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**450**		93	27	ng/L		06/27/22 12:20	07/14/22 20:53	50
L-Perfluorohexanesulfonic acid	**1500**		93	27	ng/L		06/27/22 12:20	07/14/22 20:53	50
L-Perfluorooctanesulfonic acid	**9500**		93	25	ng/L		06/27/22 12:20	07/14/22 20:53	50
FHxSA	**660**		93	10	ng/L		06/27/22 12:20	07/14/22 20:53	50
Br-Perfluorohexanesulfonic acid	**180**		93	27	ng/L		06/27/22 12:20	07/14/22 20:53	50
Br-Perfluorooctanesulfonic acid	**2400**		93	25	ng/L		06/27/22 12:20	07/14/22 20:53	50
Total PFHxS	**1600**		93	27	ng/L		06/27/22 12:20	07/14/22 20:53	50
Total PFOS	**12000**		93	25	ng/L		06/27/22 12:20	07/14/22 20:53	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150	06/27/22 12:20	07/14/22 20:53	50
18O2 PFHxS	95		25 - 150	06/27/22 12:20	07/14/22 20:53	50
13C4 PFOS	89		25 - 150	06/27/22 12:20	07/14/22 20:53	50
13C8 FOSA	86		25 - 150	06/27/22 12:20	07/14/22 20:53	50

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151535WPS

Date Collected: 06/15/22 15:35
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-18

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**18**		4.6	2.2	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluoropentanoic acid	**23**		1.8	0.45	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorohexanoic acid	**24**		1.8	0.54	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluoroheptanoic acid	**9.4**		1.8	0.23	ng/L		06/27/22 12:20	07/11/22 03:53	1
L-Perfluorooctanoic acid	**5.4**		1.8	0.79	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorononanoic acid	**3.7**		1.8	0.25	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorodecanoic acid	**0.71**	**J**	1.8	0.29	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluoroundecanoic acid	ND		1.8	1.0	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorododecanoic acid	ND		1.8	0.51	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorotetradecanoic acid	ND		1.8	0.67	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorobutanesulfonic acid	**7.2**		1.8	0.18	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluoropentanesulfonic acid	**8.0**		1.8	0.28	ng/L		06/27/22 12:20	07/11/22 03:53	1
L-Perfluorohexanesulfonic acid	**83**		1.8	0.53	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluoroheptanesulfonic acid	**3.1**		1.8	0.18	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorononanesulfonic acid	ND		1.8	0.34	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorodecanesulfonic acid	ND		1.8	0.30	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluorooctanesulfonamide	ND		1.8	0.91	ng/L		06/27/22 12:20	07/11/22 03:53	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 12:20	07/11/22 03:53	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 12:20	07/11/22 03:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 03:53	1
6:2 Fluorotelomer sulfonic acid	ND		4.6	2.3	ng/L		06/27/22 12:20	07/11/22 03:53	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.43	ng/L		06/27/22 12:20	07/11/22 03:53	1
DONA	ND		1.8	0.37	ng/L		06/27/22 12:20	07/11/22 03:53	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 12:20	07/11/22 03:53	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 03:53	1
11Cl-PF3OUdS	ND	*+	1.8	0.30	ng/L		06/27/22 12:20	07/11/22 03:53	1
FHxSA	**2.3**		1.8	0.20	ng/L		06/27/22 12:20	07/11/22 03:53	1
FBSA	**2.3**		1.8	0.32	ng/L		06/27/22 12:20	07/11/22 03:53	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.42	ng/L		06/27/22 12:20	07/11/22 03:53	1
Total NEtFOSAA	ND		4.6	1.2	ng/L		06/27/22 12:20	07/11/22 03:53	1
Total PFOA	**5.4**		1.8	0.79	ng/L		06/27/22 12:20	07/11/22 03:53	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 12:20	07/11/22 03:53	1
Br-Perfluorooctanoic acid	ND		1.8	0.79	ng/L		06/27/22 12:20	07/11/22 03:53	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 12:20	07/11/22 03:53	1
Br-Perfluorohexanesulfonic acid	**10**		1.8	0.53	ng/L		06/27/22 12:20	07/11/22 03:53	1
Total PFHxS	**94**		1.8	0.53	ng/L		06/27/22 12:20	07/11/22 03:53	1
Total NMeFOSAA	ND		4.6	1.1	ng/L		06/27/22 12:20	07/11/22 03:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:53*	*1*
13C5 PFPeA	*110*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:53*	*1*
13C2 PFHxA	*107*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:53*	*1*
13C4 PFHpA	*110*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:53*	*1*
13C4 PFOA	*105*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:53*	*1*
13C5 PFNA	*105*		*25 - 150*	*06/27/22 12:20*	*07/11/22 03:53*	*1*

Client Sample ID: GW2206151535WPS
Lab Sample ID: 240-168450-18

Date Collected: 06/15/22 15:35
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	100		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C2 PFUnA	103		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C2 PFDoA	102		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C2 PFTeDA	81		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C3 PFBS	112		25 - 150	06/27/22 12:20	07/11/22 03:53	1
18O2 PFHxS	103		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C4 PFOS	101		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C8 FOSA	104		25 - 150	06/27/22 12:20	07/11/22 03:53	1
d3-NMeFOSAA	108		25 - 150	06/27/22 12:20	07/11/22 03:53	1
d5-NEtFOSAA	105		25 - 150	06/27/22 12:20	07/11/22 03:53	1
M2-4:2 FTS	106		25 - 150	06/27/22 12:20	07/11/22 03:53	1
M2-6:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 03:53	1
M2-8:2 FTS	107		25 - 150	06/27/22 12:20	07/11/22 03:53	1
13C3 HFPO-DA	107		25 - 150	06/27/22 12:20	07/11/22 03:53	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorooctanesulfonic acid	**360**		9.2	2.5	ng/L		06/27/22 12:20	07/14/22 18:14	5
Br-Perfluorooctanesulfonic acid	**72**		9.2	2.5	ng/L		06/27/22 12:20	07/14/22 18:14	5
Total PFOS	**430**		9.2	2.5	ng/L		06/27/22 12:20	07/14/22 18:14	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	91		25 - 150	06/27/22 12:20	07/14/22 18:14	5

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151620WPS

Date Collected: 06/15/22 16:20
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-19

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**47**		4.7	2.3	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluoropentanoic acid	**180**		1.9	0.46	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorohexanoic acid	**330**		1.9	0.54	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluoroheptanoic acid	**86**		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 04:16	1
L-Perfluorooctanoic acid	**48**		1.9	0.80	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorononanoic acid	**0.41**	**J**	1.9	0.25	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorodecanoic acid	ND		1.9	0.29	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluoroundecanoic acid	ND		1.9	1.0	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorododecanoic acid	ND		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorotetradecanoic acid	ND		1.9	0.68	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorobutanesulfonic acid	**130**		1.9	0.19	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluoropentanesulfonic acid	**140**		1.9	0.28	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluoroheptanesulfonic acid	**6.1**		1.9	0.18	ng/L		06/27/22 12:20	07/11/22 04:16	1
L-Perfluorooctanesulfonic acid	**10**		1.9	0.51	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorononanesulfonic acid	ND		1.9	0.35	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorodecanesulfonic acid	ND		1.9	0.30	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluorooctanesulfonamide	ND		1.9	0.92	ng/L		06/27/22 12:20	07/11/22 04:16	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 04:16	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 04:16	1
4:2 Fluorotelomer sulfonic acid	**0.72**	**J**	1.9	0.23	ng/L		06/27/22 12:20	07/11/22 04:16	1
6:2 Fluorotelomer sulfonic acid	**45**		4.7	2.3	ng/L		06/27/22 12:20	07/11/22 04:16	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.43	ng/L		06/27/22 12:20	07/11/22 04:16	1
DONA	ND		1.9	0.38	ng/L		06/27/22 12:20	07/11/22 04:16	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 12:20	07/11/22 04:16	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 04:16	1
11Cl-PF3OUdS	ND	*+	1.9	0.30	ng/L		06/27/22 12:20	07/11/22 04:16	1
FHxSA	**5.7**		1.9	0.21	ng/L		06/27/22 12:20	07/11/22 04:16	1
FBSA	**39**		1.9	0.33	ng/L		06/27/22 12:20	07/11/22 04:16	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.42	ng/L		06/27/22 12:20	07/11/22 04:16	1
Total NEtFOSAA	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 04:16	1
Total PFOA	**59**		1.9	0.80	ng/L		06/27/22 12:20	07/11/22 04:16	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.2	ng/L		06/27/22 12:20	07/11/22 04:16	1
Br-Perfluorooctanoic acid	**11**		1.9	0.80	ng/L		06/27/22 12:20	07/11/22 04:16	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 04:16	1
Br-Perfluorooctanesulfonic acid	**39**		1.9	0.51	ng/L		06/27/22 12:20	07/11/22 04:16	1
Total PFOS	**49**		1.9	0.51	ng/L		06/27/22 12:20	07/11/22 04:16	1
Total NMeFOSAA	ND		4.7	1.1	ng/L		06/27/22 12:20	07/11/22 04:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*65*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:16*	*1*
13C5 PFPeA	*92*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:16*	*1*
13C2 PFHxA	*96*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:16*	*1*
13C4 PFHpA	*97*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:16*	*1*
13C4 PFOA	*92*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:16*	*1*
13C5 PFNA	*93*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:16*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151620WPS
Lab Sample ID: 240-168450-19

Date Collected: 06/15/22 16:20
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	87		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C2 PFUnA	85		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C2 PFDoA	72		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C2 PFTeDA	63		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C3 PFBS	97		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C4 PFOS	85		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C8 FOSA	88		25 - 150	06/27/22 12:20	07/11/22 04:16	1
d3-NMeFOSAA	86		25 - 150	06/27/22 12:20	07/11/22 04:16	1
d5-NEtFOSAA	82		25 - 150	06/27/22 12:20	07/11/22 04:16	1
M2-4:2 FTS	96		25 - 150	06/27/22 12:20	07/11/22 04:16	1
M2-6:2 FTS	96		25 - 150	06/27/22 12:20	07/11/22 04:16	1
M2-8:2 FTS	94		25 - 150	06/27/22 12:20	07/11/22 04:16	1
13C3 HFPO-DA	96		25 - 150	06/27/22 12:20	07/11/22 04:16	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorohexanesulfonic acid	**790**		9.4	2.7	ng/L		06/27/22 12:20	07/14/22 18:37	5
Br-Perfluorohexanesulfonic acid	**150**		9.4	2.7	ng/L		06/27/22 12:20	07/14/22 18:37	5
Total PFHxS	**940**		9.4	2.7	ng/L		06/27/22 12:20	07/14/22 18:37	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	91		25 - 150	06/27/22 12:20	07/14/22 18:37	5

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151650WPS

Date Collected: 06/15/22 16:50
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-20

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**9.0**		4.5	2.2	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluoropentanoic acid	**5.0**		1.8	0.44	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorohexanoic acid	**5.2**		1.8	0.53	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluoroheptanoic acid	**2.8**		1.8	0.23	ng/L		06/27/22 12:20	07/11/22 04:39	1
L-Perfluorooctanoic acid	**5.6**		1.8	0.77	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorononanoic acid	**0.33**	**J**	1.8	0.24	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluoroundecanoic acid	ND		1.8	1.0	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorododecanoic acid	ND		1.8	0.50	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorotetradecanoic acid	ND		1.8	0.66	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorobutanesulfonic acid	**4.8**		1.8	0.18	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluoropentanesulfonic acid	**2.1**		1.8	0.27	ng/L		06/27/22 12:20	07/11/22 04:39	1
L-Perfluorohexanesulfonic acid	**23**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluoroheptanesulfonic acid	**0.47**	**J**	1.8	0.17	ng/L		06/27/22 12:20	07/11/22 04:39	1
L-Perfluorooctanesulfonic acid	**15**		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorononanesulfonic acid	ND		1.8	0.34	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluorooctanesulfonamide	ND		1.8	0.89	ng/L		06/27/22 12:20	07/11/22 04:39	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 04:39	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 04:39	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 04:39	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.3	ng/L		06/27/22 12:20	07/11/22 04:39	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.42	ng/L		06/27/22 12:20	07/11/22 04:39	1
DONA	ND		1.8	0.36	ng/L		06/27/22 12:20	07/11/22 04:39	1
HFPODA	ND		3.6	1.4	ng/L		06/27/22 12:20	07/11/22 04:39	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 04:39	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 12:20	07/11/22 04:39	1
FHxSA	ND		1.8	0.20	ng/L		06/27/22 12:20	07/11/22 04:39	1
FBSA	**1.0**	**J**	1.8	0.31	ng/L		06/27/22 12:20	07/11/22 04:39	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		06/27/22 12:20	07/11/22 04:39	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 04:39	1
Total PFOA	**5.6**		1.8	0.77	ng/L		06/27/22 12:20	07/11/22 04:39	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		06/27/22 12:20	07/11/22 04:39	1
Br-Perfluorooctanoic acid	ND		1.8	0.77	ng/L		06/27/22 12:20	07/11/22 04:39	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 04:39	1
Br-Perfluorohexanesulfonic acid	**2.9**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 04:39	1
Br-Perfluorooctanesulfonic acid	**15**		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 04:39	1
Total PFHxS	**26**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 04:39	1
Total PFOS	**29**		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 04:39	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		06/27/22 12:20	07/11/22 04:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:39*	*1*
13C5 PFPeA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:39*	*1*
13C2 PFHxA	*96*		*25 - 150*	*06/27/22 12:20*	*07/11/22 04:39*	*1*

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151650WPS
Lab Sample ID: 240-168450-20
Date Collected: 06/15/22 16:50
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	100		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C4 PFOA	98		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C5 PFNA	97		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C2 PFDA	96		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C2 PFUnA	95		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C2 PFDoA	88		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C2 PFTeDA	74		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C3 PFBS	95		25 - 150	06/27/22 12:20	07/11/22 04:39	1
18O2 PFHxS	92		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C4 PFOS	90		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C8 FOSA	91		25 - 150	06/27/22 12:20	07/11/22 04:39	1
d3-NMeFOSAA	94		25 - 150	06/27/22 12:20	07/11/22 04:39	1
d5-NEtFOSAA	90		25 - 150	06/27/22 12:20	07/11/22 04:39	1
M2-4:2 FTS	90		25 - 150	06/27/22 12:20	07/11/22 04:39	1
M2-6:2 FTS	93		25 - 150	06/27/22 12:20	07/11/22 04:39	1
M2-8:2 FTS	97		25 - 150	06/27/22 12:20	07/11/22 04:39	1
13C3 HFPO-DA	99		25 - 150	06/27/22 12:20	07/11/22 04:39	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: GW2206151800WPS

Date Collected: 06/15/22 18:00
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-21

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**17**		4.6	2.2	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluoropentanoic acid	**16**		1.8	0.45	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorohexanoic acid	**19**		1.8	0.53	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluoroheptanoic acid	**8.3**		1.8	0.23	ng/L		06/27/22 12:20	07/11/22 05:01	1
L-Perfluorooctanoic acid	**5.6**		1.8	0.78	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorononanoic acid	**1.5**	**J**	1.8	0.25	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorodecanoic acid	**0.61**	**J**	1.8	0.28	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluoroundecanoic acid	ND		1.8	1.0	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorododecanoic acid	ND		1.8	0.50	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorotetradecanoic acid	ND		1.8	0.67	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorobutanesulfonic acid	**6.9**		1.8	0.18	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluoropentanesulfonic acid	**6.4**		1.8	0.27	ng/L		06/27/22 12:20	07/11/22 05:01	1
L-Perfluorohexanesulfonic acid	**46**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluoroheptanesulfonic acid	**1.5**	**J**	1.8	0.17	ng/L		06/27/22 12:20	07/11/22 05:01	1
L-Perfluorooctanesulfonic acid	**160**		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorononanesulfonic acid	**0.39**	**J**	1.8	0.34	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluorooctanesulfonamide	ND		1.8	0.90	ng/L		06/27/22 12:20	07/11/22 05:01	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 12:20	07/11/22 05:01	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 12:20	07/11/22 05:01	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 05:01	1
6:2 Fluorotelomer sulfonic acid	ND		4.6	2.3	ng/L		06/27/22 12:20	07/11/22 05:01	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.42	ng/L		06/27/22 12:20	07/11/22 05:01	1
DONA	ND		1.8	0.37	ng/L		06/27/22 12:20	07/11/22 05:01	1
HFPODA	ND		3.7	1.4	ng/L		06/27/22 12:20	07/11/22 05:01	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		06/27/22 12:20	07/11/22 05:01	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		06/27/22 12:20	07/11/22 05:01	1
FHxSA	**2.2**		1.8	0.20	ng/L		06/27/22 12:20	07/11/22 05:01	1
FBSA	**3.6**		1.8	0.32	ng/L		06/27/22 12:20	07/11/22 05:01	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		06/27/22 12:20	07/11/22 05:01	1
Total NEtFOSAA	ND		4.6	1.2	ng/L		06/27/22 12:20	07/11/22 05:01	1
Total PFOA	**5.6**		1.8	0.78	ng/L		06/27/22 12:20	07/11/22 05:01	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.6	1.2	ng/L		06/27/22 12:20	07/11/22 05:01	1
Br-Perfluorooctanoic acid	ND		1.8	0.78	ng/L		06/27/22 12:20	07/11/22 05:01	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.6	1.1	ng/L		06/27/22 12:20	07/11/22 05:01	1
Br-Perfluorohexanesulfonic acid	**6.8**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 05:01	1
Br-Perfluorooctanesulfonic acid	**33**		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 05:01	1
Total PFHxS	**53**		1.8	0.52	ng/L		06/27/22 12:20	07/11/22 05:01	1
Total PFOS	**190**		1.8	0.49	ng/L		06/27/22 12:20	07/11/22 05:01	1
Total NMeFOSAA	ND		4.6	1.1	ng/L		06/27/22 12:20	07/11/22 05:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*25 - 150*	*06/27/22 12:20*	*07/11/22 05:01*	*1*
13C5 PFPeA	*104*		*25 - 150*	*06/27/22 12:20*	*07/11/22 05:01*	*1*
13C2 PFHxA	*98*		*25 - 150*	*06/27/22 12:20*	*07/11/22 05:01*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151800WPS
Lab Sample ID: 240-168450-21

Date Collected: 06/15/22 18:00
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	101		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C4 PFOA	97		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C5 PFNA	95		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C2 PFDA	89		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C2 PFUnA	75		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C2 PFDoA	65		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C2 PFTeDA	62		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C3 PFBS	95		25 - 150	06/27/22 12:20	07/11/22 05:01	1
18O2 PFHxS	91		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C4 PFOS	85		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C8 FOSA	88		25 - 150	06/27/22 12:20	07/11/22 05:01	1
d3-NMeFOSAA	77		25 - 150	06/27/22 12:20	07/11/22 05:01	1
d5-NEtFOSAA	71		25 - 150	06/27/22 12:20	07/11/22 05:01	1
M2-4:2 FTS	102		25 - 150	06/27/22 12:20	07/11/22 05:01	1
M2-6:2 FTS	99		25 - 150	06/27/22 12:20	07/11/22 05:01	1
M2-8:2 FTS	89		25 - 150	06/27/22 12:20	07/11/22 05:01	1
13C3 HFPO-DA	100		25 - 150	06/27/22 12:20	07/11/22 05:01	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-168450-1

Client Sample ID: FB220615 WPS

Date Collected: 06/15/22 00:00
Date Received: 06/17/22 09:40

Lab Sample ID: 240-168450-22

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.8	2.3	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluoropentanoic acid	ND		1.9	0.47	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorohexanoic acid	ND		1.9	0.56	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluoroheptanoic acid	ND		1.9	0.24	ng/L		06/27/22 12:20	07/11/22 00:53	1
L-Perfluorooctanoic acid	ND		1.9	0.82	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorononanoic acid	ND		1.9	0.26	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorodecanoic acid	ND		1.9	0.30	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluoroundecanoic acid	ND		1.9	1.1	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorododecanoic acid	ND		1.9	0.53	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorotridecanoic acid	ND		1.9	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorotetradecanoic acid	ND		1.9	0.70	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorobutanesulfonic acid	ND		1.9	0.19	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluoropentanesulfonic acid	ND		1.9	0.29	ng/L		06/27/22 12:20	07/11/22 00:53	1
L-Perfluorohexanesulfonic acid	ND		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluoroheptanesulfonic acid	ND		1.9	0.18	ng/L		06/27/22 12:20	07/11/22 00:53	1
L-Perfluorooctanesulfonic acid	ND		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorononanesulfonic acid	ND		1.9	0.36	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorodecanesulfonic acid	ND		1.9	0.31	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluorooctanesulfonamide	ND		1.9	0.94	ng/L		06/27/22 12:20	07/11/22 00:53	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 00:53	1
6:2 Fluorotelomer sulfonic acid	ND		4.8	2.4	ng/L		06/27/22 12:20	07/11/22 00:53	1
8:2 Fluorotelomer sulfonic acid	ND		1.9	0.44	ng/L		06/27/22 12:20	07/11/22 00:53	1
DONA	ND		1.9	0.38	ng/L		06/27/22 12:20	07/11/22 00:53	1
HFPODA	ND		3.8	1.4	ng/L		06/27/22 12:20	07/11/22 00:53	1
9Cl-PF3ONS	ND		1.9	0.23	ng/L		06/27/22 12:20	07/11/22 00:53	1
11Cl-PF3OUdS	ND	*+	1.9	0.31	ng/L		06/27/22 12:20	07/11/22 00:53	1
FHxSA	ND		1.9	0.21	ng/L		06/27/22 12:20	07/11/22 00:53	1
FBSA	ND		1.9	0.33	ng/L		06/27/22 12:20	07/11/22 00:53	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.9	0.43	ng/L		06/27/22 12:20	07/11/22 00:53	1
Total NEtFOSAA	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1
Total PFOA	ND		1.9	0.82	ng/L		06/27/22 12:20	07/11/22 00:53	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1
Br-Perfluorooctanoic acid	ND		1.9	0.82	ng/L		06/27/22 12:20	07/11/22 00:53	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1
Br-Perfluorohexanesulfonic acid	ND		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 00:53	1
Br-Perfluorooctanesulfonic acid	ND		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 00:53	1
Total PFHxS	ND		1.9	0.55	ng/L		06/27/22 12:20	07/11/22 00:53	1
Total PFOS	ND		1.9	0.52	ng/L		06/27/22 12:20	07/11/22 00:53	1
Total NMeFOSAA	ND		4.8	1.2	ng/L		06/27/22 12:20	07/11/22 00:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:53*	*1*
13C5 PFPeA	*104*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:53*	*1*
13C2 PFHxA	*104*		*25 - 150*	*06/27/22 12:20*	*07/11/22 00:53*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB220615 WPS
Lab Sample ID: 240-168450-22

Date Collected: 06/15/22 00:00
Matrix: Water
Date Received: 06/17/22 09:40

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	107		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C4 PFOA	103		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C5 PFNA	104		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C2 PFDA	102		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C2 PFUnA	102		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C2 PFDoA	93		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C2 PFTeDA	89		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C3 PFBS	106		25 - 150	06/27/22 12:20	07/11/22 00:53	1
18O2 PFHxS	100		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C4 PFOS	97		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C8 FOSA	93		25 - 150	06/27/22 12:20	07/11/22 00:53	1
d3-NMeFOSAA	99		25 - 150	06/27/22 12:20	07/11/22 00:53	1
d5-NEtFOSAA	91		25 - 150	06/27/22 12:20	07/11/22 00:53	1
M2-4:2 FTS	108		25 - 150	06/27/22 12:20	07/11/22 00:53	1
M2-6:2 FTS	108		25 - 150	06/27/22 12:20	07/11/22 00:53	1
M2-8:2 FTS	104		25 - 150	06/27/22 12:20	07/11/22 00:53	1
13C3 HFPO-DA	108		25 - 150	06/27/22 12:20	07/11/22 00:53	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Lab Sample ID: MB 320-598910/1-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		5.0	2.4	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluoropentanoic acid	ND		2.0	0.49	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorohexanoic acid	ND		2.0	0.58	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluoroheptanoic acid	ND		2.0	0.25	ng/L		06/27/22 11:57	07/10/22 17:20	1
L-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorononanoic acid	ND		2.0	0.27	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorodecanoic acid	ND		2.0	0.31	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluoroundecanoic acid	ND		2.0	1.1	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorododecanoic acid	ND		2.0	0.55	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorotridecanoic acid	ND		2.0	1.3	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorotetradecanoic acid	ND		2.0	0.73	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorobutanesulfonic acid	ND		2.0	0.20	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluoropentanesulfonic acid	ND		2.0	0.30	ng/L		06/27/22 11:57	07/10/22 17:20	1
L-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluoroheptanesulfonic acid	ND		2.0	0.19	ng/L		06/27/22 11:57	07/10/22 17:20	1
L-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorononanesulfonic acid	ND		2.0	0.37	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorodecanesulfonic acid	ND		2.0	0.32	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluorooctanesulfonamide	ND		2.0	0.98	ng/L		06/27/22 11:57	07/10/22 17:20	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/27/22 11:57	07/10/22 17:20	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.3	ng/L		06/27/22 11:57	07/10/22 17:20	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.24	ng/L		06/27/22 11:57	07/10/22 17:20	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.5	ng/L		06/27/22 11:57	07/10/22 17:20	1
8:2 Fluorotelomer sulfonic acid	ND		2.0	0.46	ng/L		06/27/22 11:57	07/10/22 17:20	1
DONA	ND		2.0	0.40	ng/L		06/27/22 11:57	07/10/22 17:20	1
HFPODA	ND		4.0	1.5	ng/L		06/27/22 11:57	07/10/22 17:20	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		06/27/22 11:57	07/10/22 17:20	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		06/27/22 11:57	07/10/22 17:20	1
FHxSA	ND		2.0	0.22	ng/L		06/27/22 11:57	07/10/22 17:20	1
FBSA	ND		2.0	0.35	ng/L		06/27/22 11:57	07/10/22 17:20	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.0	0.45	ng/L		06/27/22 11:57	07/10/22 17:20	1
Total NEtFOSAA	ND		5.0	1.3	ng/L		06/27/22 11:57	07/10/22 17:20	1
Total PFOA	ND		2.0	0.85	ng/L		06/27/22 11:57	07/10/22 17:20	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.3	ng/L		06/27/22 11:57	07/10/22 17:20	1
Br-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/27/22 11:57	07/10/22 17:20	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/27/22 11:57	07/10/22 17:20	1
Br-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/27/22 11:57	07/10/22 17:20	1
Br-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/27/22 11:57	07/10/22 17:20	1
Total PFHxS	ND		2.0	0.57	ng/L		06/27/22 11:57	07/10/22 17:20	1
Total PFOS	ND		2.0	0.54	ng/L		06/27/22 11:57	07/10/22 17:20	1
Total NMeFOSAA	ND		5.0	1.2	ng/L		06/27/22 11:57	07/10/22 17:20	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C5 PFPeA	*102*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-598910/1-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598910

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*105*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C4 PFHpA	*108*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C4 PFOA	*103*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C5 PFNA	*105*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C2 PFDA	*102*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C2 PFUnA	*104*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C2 PFDoA	*101*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C2 PFTeDA	*90*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C3 PFBS	*104*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
18O2 PFHxS	*100*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C4 PFOS	*97*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C8 FOSA	*95*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
d3-NMeFOSAA	*107*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
M2-4:2 FTS	*113*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
M2-6:2 FTS	*110*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
M2-8:2 FTS	*106*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*
13C3 HFPO-DA	*106*		*25 - 150*	*06/27/22 11:57*	*07/10/22 17:20*	*1*

Lab Sample ID: LCS 320-598910/2-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	40.0	42.7		ng/L		107	76 - 136
Perfluoropentanoic acid	40.0	46.6		ng/L		116	71 - 131
Perfluorohexanoic acid	40.0	43.3		ng/L		108	73 - 133
Perfluoroheptanoic acid	40.0	45.9		ng/L		115	72 - 132
Perfluorononanoic acid	40.0	48.2		ng/L		120	75 - 135
Perfluorodecanoic acid	40.0	47.1		ng/L		118	76 - 136
Perfluoroundecanoic acid	40.0	47.0		ng/L		118	68 - 128
Perfluorododecanoic acid	40.0	48.8		ng/L		122	71 - 131
Perfluorotridecanoic acid	40.0	44.7		ng/L		112	71 - 131
Perfluorotetradecanoic acid	40.0	47.4		ng/L		118	70 - 130
Perfluorobutanesulfonic acid	35.4	41.6		ng/L		118	67 - 127
Perfluoropentanesulfonic acid	37.5	43.3		ng/L		115	66 - 126
Perfluoroheptanesulfonic acid	38.1	46.3		ng/L		121	76 - 136
Perfluorononanesulfonic acid	38.4	46.5		ng/L		121	75 - 135
Perfluorodecanesulfonic acid	38.6	46.1		ng/L		120	71 - 131
Perfluorooctanesulfonamide	40.0	46.3		ng/L		116	73 - 133
4:2 Fluorotelomer sulfonic acid	37.4	46.1		ng/L		123	79 - 139
6:2 Fluorotelomer sulfonic acid	37.9	45.7		ng/L		121	59 - 175
8:2 Fluorotelomer sulfonic acid	38.3	48.8		ng/L		127	75 - 135
DONA	37.7	47.6		ng/L		126	79 - 139
HFPODA	40.0	47.6		ng/L		119	51 - 173
9Cl-PF3ONS	37.3	45.7		ng/L		123	75 - 135
11Cl-PF3OUdS	37.7	46.5	*+	ng/L		123	54 - 114
FHxSA	40.0	47.5		ng/L		119	70 - 130
FBSA	40.0	46.9		ng/L		117	70 - 130

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-598910/2-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-ethylcyclohexanesulfonic acid	36.9	44.1		ng/L		119	70 - 130
Total NEtFOSAA	40.0	46.4		ng/L		116	76 - 136
Total PFOA	40.0	46.2		ng/L		116	70 - 130
Total PFHxS	36.4	41.5		ng/L		114	59 - 119
Total PFOS	37.1	44.0		ng/L		118	70 - 130
Total NMeFOSAA	40.0	46.6		ng/L		116	76 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*103*		*25 - 150*
13C5 PFPeA	*101*		*25 - 150*
13C2 PFHxA	*104*		*25 - 150*
13C4 PFHpA	*104*		*25 - 150*
13C4 PFOA	*100*		*25 - 150*
13C5 PFNA	*101*		*25 - 150*
13C2 PFDA	*101*		*25 - 150*
13C2 PFUnA	*100*		*25 - 150*
13C2 PFDoA	*99*		*25 - 150*
13C2 PFTeDA	*91*		*25 - 150*
13C3 PFBS	*103*		*25 - 150*
18O2 PFHxS	*98*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*92*		*25 - 150*
d3-NMeFOSAA	*103*		*25 - 150*
d5-NEtFOSAA	*99*		*25 - 150*
M2-4:2 FTS	*107*		*25 - 150*
M2-6:2 FTS	*102*		*25 - 150*
M2-8:2 FTS	*101*		*25 - 150*
13C3 HFPO-DA	*103*		*25 - 150*

Lab Sample ID: 240-168450-9 MS
Matrix: Water
Analysis Batch: 602552

Client Sample ID: SW2206141520WPS MS
Prep Type: Total/NA
Prep Batch: 598910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	5.8		35.2	43.8		ng/L		108	76 - 136
Perfluoropentanoic acid	0.59	J	35.2	40.8		ng/L		114	71 - 131
Perfluorohexanoic acid	1.1	J	35.2	40.9		ng/L		113	73 - 133
Perfluoroheptanoic acid	0.78	J	35.2	40.6		ng/L		113	72 - 132
Perfluorononanoic acid	ND		35.2	42.6		ng/L		121	75 - 135
Perfluorodecanoic acid	ND		35.2	43.0		ng/L		122	76 - 136
Perfluoroundecanoic acid	ND		35.2	41.0		ng/L		116	68 - 128
Perfluorododecanoic acid	ND		35.2	44.2		ng/L		125	71 - 131
Perfluorotridecanoic acid	ND		35.2	37.6		ng/L		107	71 - 131
Perfluorotetradecanoic acid	ND		35.2	43.7		ng/L		124	70 - 130
Perfluorobutanesulfonic acid	1.0	J	31.1	36.0		ng/L		112	67 - 127
Perfluoropentanesulfonic acid	ND		33.0	37.7		ng/L		114	66 - 126
Perfluoroheptanesulfonic acid	ND		33.5	41.2		ng/L		123	76 - 136
Perfluorononanesulfonic acid	ND		33.8	39.1		ng/L		116	75 - 135

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168450-9 MS
Client Sample ID: SW2206141520WPS MS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanesulfonic acid	ND		33.9	36.9		ng/L		109	71 - 131
Perfluorooctanesulfonamide	ND		35.2	42.6		ng/L		121	73 - 133
4:2 Fluorotelomer sulfonic acid	ND		32.9	39.7		ng/L		121	79 - 139
6:2 Fluorotelomer sulfonic acid	ND		33.4	38.3		ng/L		115	59 - 175
8:2 Fluorotelomer sulfonic acid	ND		33.7	39.8		ng/L		118	75 - 135
DONA	ND		33.2	42.9		ng/L		129	79 - 139
HFPODA	ND		35.2	40.0		ng/L		114	51 - 173
9Cl-PF3ONS	ND		32.8	39.4		ng/L		120	75 - 135
11Cl-PF3OUdS	ND	*+	33.2	37.0		ng/L		111	54 - 114
FHxSA	ND		35.2	40.8		ng/L		116	70 - 130
FBSA	ND		35.2	39.9		ng/L		113	70 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		32.5	38.0		ng/L		117	70 - 130
Total NEtFOSAA	ND		35.2	42.6		ng/L		121	76 - 136
Total PFOA	1.0	J	35.2	40.6		ng/L		113	70 - 130
Total PFHxS	0.58	J	32.0	36.3		ng/L		111	66 - 126
Total PFOS	ND		32.7	39.5		ng/L		121	70 - 130
Total NMeFOSAA	ND		35.2	42.3		ng/L		120	76 - 136

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*61*		*25 - 150*
13C5 PFPeA	*77*		*25 - 150*
13C2 PFHxA	*79*		*25 - 150*
13C4 PFHpA	*82*		*25 - 150*
13C4 PFOA	*79*		*25 - 150*
13C5 PFNA	*78*		*25 - 150*
13C2 PFDA	*76*		*25 - 150*
13C2 PFUnA	*75*		*25 - 150*
13C2 PFDoA	*67*		*25 - 150*
13C2 PFTeDA	*57*		*25 - 150*
13C3 PFBS	*78*		*25 - 150*
18O2 PFHxS	*76*		*25 - 150*
13C4 PFOS	*73*		*25 - 150*
13C8 FOSA	*73*		*25 - 150*
d3-NMeFOSAA	*74*		*25 - 150*
d5-NEtFOSAA	*71*		*25 - 150*
M2-4:2 FTS	*78*		*25 - 150*
M2-6:2 FTS	*78*		*25 - 150*
M2-8:2 FTS	*77*		*25 - 150*
13C3 HFPO-DA	*80*		*25 - 150*

Lab Sample ID: 240-168450-9 MSD
Client Sample ID: SW2206141520WPS MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	5.8		36.2	44.2		ng/L		106	76 - 136	1	30
Perfluoropentanoic acid	0.59	J	36.2	40.7		ng/L		111	71 - 131	0	30
Perfluorohexanoic acid	1.1	J	36.2	42.0		ng/L		113	73 - 133	3	30

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168450-9 MSD
Client Sample ID: SW2206141520WPS MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid	0.78	J	36.2	41.3		ng/L		112	72 - 132	2	30
Perfluorononanoic acid	ND		36.2	44.3		ng/L		123	75 - 135	4	30
Perfluorodecanoic acid	ND		36.2	44.0		ng/L		122	76 - 136	2	30
Perfluoroundecanoic acid	ND		36.2	40.4		ng/L		112	68 - 128	2	30
Perfluorododecanoic acid	ND		36.2	44.4		ng/L		123	71 - 131	1	30
Perfluorotridecanoic acid	ND		36.2	38.9		ng/L		108	71 - 131	3	30
Perfluorotetradecanoic acid	ND		36.2	43.7		ng/L		121	70 - 130	0	30
Perfluorobutanesulfonic acid	1.0	J	32.0	38.1		ng/L		116	67 - 127	5	30
Perfluoropentanesulfonic acid	ND		33.9	39.1		ng/L		115	66 - 126	4	30
Perfluoroheptanesulfonic acid	ND		34.4	42.4		ng/L		123	76 - 136	3	30
Perfluorononanesulfonic acid	ND		34.7	40.4		ng/L		116	75 - 135	3	30
Perfluorodecanesulfonic acid	ND		34.9	35.5		ng/L		102	71 - 131	4	30
Perfluorooctanesulfonamide	ND		36.2	43.3		ng/L		120	73 - 133	2	30
4:2 Fluorotelomer sulfonic acid	ND		33.8	34.9		ng/L		103	79 - 139	13	30
6:2 Fluorotelomer sulfonic acid	ND		34.3	39.3		ng/L		115	59 - 175	3	30
8:2 Fluorotelomer sulfonic acid	ND		34.6	41.6		ng/L		120	75 - 135	5	30
DONA	ND		34.1	45.3		ng/L		133	79 - 139	5	30
HFPODA	ND		36.2	42.7		ng/L		118	51 - 173	7	30
9Cl-PF3ONS	ND		33.7	41.4		ng/L		123	75 - 135	5	30
11Cl-PF3OUdS	ND	*+	34.1	34.1		ng/L		100	54 - 114	8	30
FHxSA	ND		36.2	42.3		ng/L		117	70 - 130	4	30
FBSA	ND		36.2	40.2		ng/L		111	70 - 130	1	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		33.3	39.6		ng/L		119	70 - 130	4	30
Total NEtFOSAA	ND		36.2	41.8		ng/L		116	76 - 136	2	30
Total PFOA	1.0	J	36.2	42.3		ng/L		114	70 - 130	4	30
Total PFHxS	0.58	J	32.9	37.7		ng/L		113	66 - 126	4	30
Total PFOS	ND		33.6	40.7		ng/L		121	70 - 130	3	30
Total NMeFOSAA	ND		36.2	41.3		ng/L		114	76 - 136	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*67*		*25 - 150*
13C5 PFPeA	*93*		*25 - 150*
13C2 PFHxA	*94*		*25 - 150*
13C4 PFHpA	*99*		*25 - 150*
13C4 PFOA	*92*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*89*		*25 - 150*
13C2 PFUnA	*85*		*25 - 150*
13C2 PFDoA	*75*		*25 - 150*
13C2 PFTeDA	*59*		*25 - 150*
13C3 PFBS	*92*		*25 - 150*
18O2 PFHxS	*89*		*25 - 150*
13C4 PFOS	*85*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*88*		*25 - 150*
d5-NEtFOSAA	*85*		*25 - 150*
M2-4:2 FTS	*97*		*25 - 150*
M2-6:2 FTS	*95*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168450-9 MSD
Matrix: Water
Analysis Batch: 602552

Client Sample ID: SW2206141520WPS MSD
Prep Type: Total/NA
Prep Batch: 598910

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-8:2 FTS	*89*		*25 - 150*
13C3 HFPO-DA	*96*		*25 - 150*

Lab Sample ID: MB 320-598919/1-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		5.0	2.4	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluoropentanoic acid	ND		2.0	0.49	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorohexanoic acid	ND		2.0	0.58	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluoroheptanoic acid	ND		2.0	0.25	ng/L		06/27/22 12:20	07/10/22 23:22	1
L-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorononanoic acid	ND		2.0	0.27	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorodecanoic acid	ND		2.0	0.31	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluoroundecanoic acid	ND		2.0	1.1	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorododecanoic acid	ND		2.0	0.55	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorotridecanoic acid	ND		2.0	1.3	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorotetradecanoic acid	ND		2.0	0.73	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorobutanesulfonic acid	ND		2.0	0.20	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluoropentanesulfonic acid	ND		2.0	0.30	ng/L		06/27/22 12:20	07/10/22 23:22	1
L-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluoroheptanesulfonic acid	ND		2.0	0.19	ng/L		06/27/22 12:20	07/10/22 23:22	1
L-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorononanesulfonic acid	ND		2.0	0.37	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorodecanesulfonic acid	ND		2.0	0.32	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluorooctanesulfonamide	ND		2.0	0.98	ng/L		06/27/22 12:20	07/10/22 23:22	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/27/22 12:20	07/10/22 23:22	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		5.0	1.3	ng/L		06/27/22 12:20	07/10/22 23:22	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.24	ng/L		06/27/22 12:20	07/10/22 23:22	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.5	ng/L		06/27/22 12:20	07/10/22 23:22	1
8:2 Fluorotelomer sulfonic acid	ND		2.0	0.46	ng/L		06/27/22 12:20	07/10/22 23:22	1
DONA	ND		2.0	0.40	ng/L		06/27/22 12:20	07/10/22 23:22	1
HFPODA	ND		4.0	1.5	ng/L		06/27/22 12:20	07/10/22 23:22	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		06/27/22 12:20	07/10/22 23:22	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		06/27/22 12:20	07/10/22 23:22	1
FHxSA	ND		2.0	0.22	ng/L		06/27/22 12:20	07/10/22 23:22	1
FBSA	ND		2.0	0.35	ng/L		06/27/22 12:20	07/10/22 23:22	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.0	0.45	ng/L		06/27/22 12:20	07/10/22 23:22	1
Total NEtFOSAA	ND		5.0	1.3	ng/L		06/27/22 12:20	07/10/22 23:22	1
Total PFOA	ND		2.0	0.85	ng/L		06/27/22 12:20	07/10/22 23:22	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		5.0	1.3	ng/L		06/27/22 12:20	07/10/22 23:22	1
Br-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		06/27/22 12:20	07/10/22 23:22	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		06/27/22 12:20	07/10/22 23:22	1
Br-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		06/27/22 12:20	07/10/22 23:22	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-598919/1-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		06/27/22 12:20	07/10/22 23:22	1
Total PFHxS	ND		2.0	0.57	ng/L		06/27/22 12:20	07/10/22 23:22	1
Total PFOS	ND		2.0	0.54	ng/L		06/27/22 12:20	07/10/22 23:22	1
Total NMeFOSAA	ND		5.0	1.2	ng/L		06/27/22 12:20	07/10/22 23:22	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C5 PFPeA	*104*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C2 PFHxA	*106*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C4 PFHpA	*109*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C4 PFOA	*104*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C5 PFNA	*105*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C2 PFDA	*104*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C2 PFUnA	*102*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C2 PFDoA	*107*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C2 PFTeDA	*90*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C3 PFBS	*106*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
18O2 PFHxS	*98*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C4 PFOS	*99*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C8 FOSA	*96*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
d3-NMeFOSAA	*103*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
M2-4:2 FTS	*109*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*
13C3 HFPO-DA	*107*		*25 - 150*	*06/27/22 12:20*	*07/10/22 23:22*	*1*

Lab Sample ID: LCS 320-598919/2-A
Matrix: Water
Analysis Batch: 602552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	40.0	46.0		ng/L		115	76 - 136
Perfluoropentanoic acid	40.0	44.3		ng/L		111	71 - 131
Perfluorohexanoic acid	40.0	46.1		ng/L		115	73 - 133
Perfluoroheptanoic acid	40.0	45.3		ng/L		113	72 - 132
Perfluorononanoic acid	40.0	47.7		ng/L		119	75 - 135
Perfluorodecanoic acid	40.0	46.7		ng/L		117	76 - 136
Perfluoroundecanoic acid	40.0	48.4		ng/L		121	68 - 128
Perfluorododecanoic acid	40.0	48.8		ng/L		122	71 - 131
Perfluorotridecanoic acid	40.0	47.5		ng/L		119	71 - 131
Perfluorotetradecanoic acid	40.0	48.0		ng/L		120	70 - 130
Perfluorobutanesulfonic acid	35.4	40.7		ng/L		115	67 - 127
Perfluoropentanesulfonic acid	37.5	42.2		ng/L		112	66 - 126
Perfluoroheptanesulfonic acid	38.1	45.9		ng/L		120	76 - 136
Perfluorononanesulfonic acid	38.4	46.1		ng/L		120	75 - 135
Perfluorodecanesulfonic acid	38.6	46.0		ng/L		119	71 - 131
Perfluorooctanesulfonamide	40.0	47.5		ng/L		119	73 - 133
4:2 Fluorotelomer sulfonic acid	37.4	47.5		ng/L		127	79 - 139

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-598919/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
6:2 Fluorotelomer sulfonic acid	37.9	43.9		ng/L		116	59 - 175
8:2 Fluorotelomer sulfonic acid	38.3	44.6		ng/L		116	75 - 135
DONA	37.7	46.7		ng/L		124	79 - 139
HFPODA	40.0	45.9		ng/L		115	51 - 173
9Cl-PF3ONS	37.3	45.2		ng/L		121	75 - 135
11Cl-PF3OUdS	37.7	47.2	*+	ng/L		125	54 - 114
FHxSA	40.0	46.9		ng/L		117	70 - 130
FBSA	40.0	44.8		ng/L		112	70 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	36.9	43.6		ng/L		118	70 - 130
Total NEtFOSAA	40.0	44.5		ng/L		111	76 - 136
Total PFOA	40.0	47.2		ng/L		118	70 - 130
Total PFHxS	36.4	41.6		ng/L		114	59 - 119
Total PFOS	37.1	43.1		ng/L		116	70 - 130
Total NMeFOSAA	40.0	45.4		ng/L		113	76 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*99*		*25 - 150*
13C5 PFPeA	*105*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4 PFHpA	*108*		*25 - 150*
13C4 PFOA	*101*		*25 - 150*
13C5 PFNA	*103*		*25 - 150*
13C2 PFDA	*103*		*25 - 150*
13C2 PFUnA	*100*		*25 - 150*
13C2 PFDoA	*101*		*25 - 150*
13C2 PFTeDA	*96*		*25 - 150*
13C3 PFBS	*104*		*25 - 150*
18O2 PFHxS	*98*		*25 - 150*
13C4 PFOS	*98*		*25 - 150*
13C8 FOSA	*96*		*25 - 150*
d3-NMeFOSAA	*105*		*25 - 150*
d5-NEtFOSAA	*103*		*25 - 150*
M2-4:2 FTS	*101*		*25 - 150*
M2-6:2 FTS	*107*		*25 - 150*
M2-8:2 FTS	*106*		*25 - 150*
13C3 HFPO-DA	*108*		*25 - 150*

Lab Sample ID: 240-168450-14 MS
Client Sample ID: GW2206151040WPS MS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	4.8	F1	38.5	47.8		ng/L		112	76 - 136
Perfluoropentanoic acid	2.5	F1	38.5	47.1		ng/L		116	71 - 131
Perfluorohexanoic acid	7.2	F1	38.5	51.9		ng/L		116	73 - 133
Perfluoroheptanoic acid	1.3	J F1	38.5	47.3		ng/L		119	72 - 132
Perfluorononanoic acid	ND	F1	38.5	44.4		ng/L		115	75 - 135
Perfluorodecanoic acid	ND	F1	38.5	47.8		ng/L		124	76 - 136

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168450-14 MS
Client Sample ID: GW2206151040WPS MS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid	ND	F1	38.5	45.3		ng/L		118	68 - 128
Perfluorododecanoic acid	ND	F1	38.5	47.5		ng/L		123	71 - 131
Perfluorotridecanoic acid	ND	F1	38.5	42.7		ng/L		111	71 - 131
Perfluorotetradecanoic acid	ND	F1	38.5	47.7		ng/L		124	70 - 130
Perfluorobutanesulfonic acid	16	F1	34.1	55.9		ng/L		116	67 - 127
Perfluoropentanesulfonic acid	14	F1	36.1	55.4		ng/L		115	66 - 126
Perfluoroheptanesulfonic acid	2.8	F1	36.7	46.4		ng/L		119	76 - 136
Perfluorononanesulfonic acid	ND	F1	37.0	44.3		ng/L		120	75 - 135
Perfluorodecanesulfonic acid	ND	F1	37.1	44.4		ng/L		119	71 - 131
Perfluorooctanesulfonamide	ND	F1	38.5	46.2		ng/L		120	73 - 133
4:2 Fluorotelomer sulfonic acid	ND	F1	36.0	38.8		ng/L		108	79 - 139
6:2 Fluorotelomer sulfonic acid	ND		36.5	42.4		ng/L		116	59 - 175
8:2 Fluorotelomer sulfonic acid	ND	F1	36.9	43.9		ng/L		119	75 - 135
DONA	ND	F1	36.3	46.2		ng/L		127	79 - 139
HFPODA	ND		38.5	46.0		ng/L		119	51 - 173
9Cl-PF3ONS	ND	F1	35.9	43.9		ng/L		122	75 - 135
11Cl-PF3OUdS	ND	*+ F1	36.3	42.6	F1	ng/L		117	54 - 114
FHxSA	2.5		38.5	47.1		ng/L		116	70 - 130
FBSA	1.4	J	38.5	44.7		ng/L		112	70 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	F1	35.5	40.1		ng/L		113	70 - 130
Total NEtFOSAA	ND	F1	38.5	45.3		ng/L		118	76 - 136
Total PFOA	2.8	F1	38.5	45.8		ng/L		112	70 - 130
Total PFHxS	130	F1	35.1	172	F1	ng/L		127	66 - 126
Total PFOS	210		35.8	244	4	ng/L		85	70 - 130
Total NMeFOSAA	ND	F1	38.5	44.5		ng/L		115	76 - 136

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*83*		*25 - 150*
13C5 PFPeA	*99*		*25 - 150*
13C2 PFHxA	*103*		*25 - 150*
13C4 PFHpA	*104*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*104*		*25 - 150*
13C2 PFDoA	*96*		*25 - 150*
13C2 PFTeDA	*79*		*25 - 150*
13C3 PFBS	*103*		*25 - 150*
18O2 PFHxS	*94*		*25 - 150*
13C4 PFOS	*96*		*25 - 150*
13C8 FOSA	*95*		*25 - 150*
d3-NMeFOSAA	*104*		*25 - 150*
d5-NEtFOSAA	*99*		*25 - 150*
M2-4:2 FTS	*117*		*25 - 150*
M2-6:2 FTS	*107*		*25 - 150*
M2-8:2 FTS	*106*		*25 - 150*
13C3 HFPO-DA	*105*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168450-14 MSD
Client Sample ID: GW2206151040WPS MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	4.8	F1	36.5	54.9	F1	ng/L		137	76 - 136	14	30
Perfluoropentanoic acid	2.5	F1	36.5	53.8	F1	ng/L		140	71 - 131	13	30
Perfluorohexanoic acid	7.2	F1	36.5	59.9	F1	ng/L		144	73 - 133	14	30
Perfluoroheptanoic acid	1.3	J F1	36.5	57.9	F1	ng/L		155	72 - 132	20	30
Perfluorononanoic acid	ND	F1	36.5	56.2	F1	ng/L		154	75 - 135	23	30
Perfluorodecanoic acid	ND	F1	36.5	56.7	F1	ng/L		155	76 - 136	17	30
Perfluoroundecanoic acid	ND	F1	36.5	53.8	F1	ng/L		147	68 - 128	17	30
Perfluorododecanoic acid	ND	F1	36.5	53.7	F1	ng/L		147	71 - 131	12	30
Perfluorotridecanoic acid	ND	F1	36.5	50.1	F1	ng/L		137	71 - 131	16	30
Perfluorotetradecanoic acid	ND	F1	36.5	55.9	F1	ng/L		153	70 - 130	16	30
Perfluorobutanesulfonic acid	16	F1	32.3	62.4	F1	ng/L		142	67 - 127	11	30
Perfluoropentanesulfonic acid	14	F1	34.3	62.8	F1	ng/L		142	66 - 126	12	30
Perfluoroheptanesulfonic acid	2.8	F1	34.8	57.1	F1	ng/L		156	76 - 136	21	30
Perfluorononanesulfonic acid	ND	F1	35.1	51.4	F1	ng/L		146	75 - 135	15	30
Perfluorodecanesulfonic acid	ND	F1	35.2	49.5	F1	ng/L		140	71 - 131	11	30
Perfluorooctanesulfonamide	ND	F1	36.5	51.1	F1	ng/L		140	73 - 133	10	30
4:2 Fluorotelomer sulfonic acid	ND	F1	34.1	52.3	F1	ng/L		153	79 - 139	30	30
6:2 Fluorotelomer sulfonic acid	ND		34.6	52.2		ng/L		151	59 - 175	21	30
8:2 Fluorotelomer sulfonic acid	ND	F1	35.0	57.2	F1	ng/L		163	75 - 135	26	30
DONA	ND	F1	34.4	56.1	F1	ng/L		163	79 - 139	19	30
HFPODA	ND		36.5	52.9		ng/L		145	51 - 173	14	30
9Cl-PF3ONS	ND	F1	34.1	52.2	F1	ng/L		153	75 - 135	17	30
11Cl-PF3OUdS	ND	*+ F1	34.4	50.4	F1	ng/L		146	54 - 114	17	30
FHxSA	2.5		36.5	48.7		ng/L		126	70 - 130	3	30
FBSA	1.4	J	36.5	44.8		ng/L		119	70 - 130	0	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	F1	33.7	50.6	F1	ng/L		150	70 - 130	23	30
Total NEtFOSAA	ND	F1	36.5	53.6	F1	ng/L		147	76 - 136	17	30
Total PFOA	2.8	F1	36.5	56.3	F1	ng/L		146	70 - 130	20	30
Total PFHxS	130	F1	33.3	170	F1	ng/L		129	66 - 126	1	30
Total PFOS	210		33.9	257	4	ng/L		126	70 - 130	5	30
Total NMeFOSAA	ND	F1	36.5	54.5	F1	ng/L		149	76 - 136	20	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*75*		*25 - 150*
13C5 PFPeA	*92*		*25 - 150*
13C2 PFHxA	*90*		*25 - 150*
13C4 PFHpA	*92*		*25 - 150*
13C4 PFOA	*88*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*87*		*25 - 150*
13C2 PFUnA	*84*		*25 - 150*
13C2 PFDoA	*83*		*25 - 150*
13C2 PFTeDA	*73*		*25 - 150*
13C3 PFBS	*91*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*83*		*25 - 150*
13C8 FOSA	*86*		*25 - 150*
d3-NMeFOSAA	*88*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-168450-14 MSD
Client Sample ID: GW2206151040WPS MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 602552
Prep Batch: 598919

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	83		25 - 150
M2-4:2 FTS	94		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	87		25 - 150
13C3 HFPO-DA	94		25 - 150

QC Association Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

LCMS

Prep Batch: 598910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168450-1	FB222206141455WPS	Total/NA	Water	3535	
240-168450-2	TB222206140810WPS	Total/NA	Water	3535	
240-168450-3	EB2206141500WPS	Total/NA	Water	3535	
240-168450-4	SW2206141000WPS	Total/NA	Water	3535	
240-168450-5	SW2206141100WPS	Total/NA	Water	3535	
240-168450-6	SW2206141145WPS	Total/NA	Water	3535	
240-168450-7	SW2206141320WPS	Total/NA	Water	3535	
240-168450-8	SW2206141415WPS	Total/NA	Water	3535	
240-168450-9	SW2206141520WPS	Total/NA	Water	3535	
240-168450-10	SW2206141520WPS-FD	Total/NA	Water	3535	
240-168450-11 - DL	GW2206141750WPS	Total/NA	Water	3535	
240-168450-11	GW2206141750WPS	Total/NA	Water	3535	
MB 320-598910/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-598910/2-A	Lab Control Sample	Total/NA	Water	3535	
240-168450-9 MS	SW2206141520WPS MS	Total/NA	Water	3535	
240-168450-9 MSD	SW2206141520WPS MSD	Total/NA	Water	3535	

Prep Batch: 598919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168450-12	GW2206141750WPS-FD	Total/NA	Water	3535	
240-168450-12 - DL	GW2206141750WPS-FD	Total/NA	Water	3535	
240-168450-13	GW2206150920WPS	Total/NA	Water	3535	
240-168450-13 - DL	GW2206150920WPS	Total/NA	Water	3535	
240-168450-14	GW2206151040WPS	Total/NA	Water	3535	
240-168450-15 - DL	GW2206151130WPS	Total/NA	Water	3535	
240-168450-15	GW2206151130WPS	Total/NA	Water	3535	
240-168450-16 - DL	GW2206151220WPS	Total/NA	Water	3535	
240-168450-16	GW2206151220WPS	Total/NA	Water	3535	
240-168450-17	GW2206151405WPS	Total/NA	Water	3535	
240-168450-17 - DL	GW2206151405WPS	Total/NA	Water	3535	
240-168450-18 - DL	GW2206151535WPS	Total/NA	Water	3535	
240-168450-18	GW2206151535WPS	Total/NA	Water	3535	
240-168450-19	GW2206151620WPS	Total/NA	Water	3535	
240-168450-19 - DL	GW2206151620WPS	Total/NA	Water	3535	
240-168450-20	GW2206151650WPS	Total/NA	Water	3535	
240-168450-21	GW2206151800WPS	Total/NA	Water	3535	
240-168450-22	FB220615 WPS	Total/NA	Water	3535	
MB 320-598919/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-598919/2-A	Lab Control Sample	Total/NA	Water	3535	
240-168450-14 MS	GW2206151040WPS MS	Total/NA	Water	3535	
240-168450-14 MSD	GW2206151040WPS MSD	Total/NA	Water	3535	

Analysis Batch: 602552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168450-1	FB222206141455WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-2	TB222206140810WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-3	EB2206141500WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-4	SW2206141000WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-5	SW2206141100WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-6	SW2206141145WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-7	SW2206141320WPS	Total/NA	Water	B/L/T PFAS	598910

LCMS (Continued)

Analysis Batch: 602552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168450-8	SW2206141415WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-9	SW2206141520WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-10	SW2206141520WPS-FD	Total/NA	Water	B/L/T PFAS	598910
240-168450-11	GW2206141750WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-12	GW2206141750WPS-FD	Total/NA	Water	B/L/T PFAS	598919
240-168450-13	GW2206150920WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-14	GW2206151040WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-15	GW2206151130WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-16	GW2206151220WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-17	GW2206151405WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-18	GW2206151535WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-19	GW2206151620WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-20	GW2206151650WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-21	GW2206151800WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-22	FB220615 WPS	Total/NA	Water	B/L/T PFAS	598919
MB 320-598910/1-A	Method Blank	Total/NA	Water	B/L/T PFAS	598910
MB 320-598919/1-A	Method Blank	Total/NA	Water	B/L/T PFAS	598919
LCS 320-598910/2-A	Lab Control Sample	Total/NA	Water	B/L/T PFAS	598910
LCS 320-598919/2-A	Lab Control Sample	Total/NA	Water	B/L/T PFAS	598919
240-168450-9 MS	SW2206141520WPS MS	Total/NA	Water	B/L/T PFAS	598910
240-168450-9 MSD	SW2206141520WPS MSD	Total/NA	Water	B/L/T PFAS	598910
240-168450-14 MS	GW2206151040WPS MS	Total/NA	Water	B/L/T PFAS	598919
240-168450-14 MSD	GW2206151040WPS MSD	Total/NA	Water	B/L/T PFAS	598919

Analysis Batch: 602951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-168450-11 - DL	GW2206141750WPS	Total/NA	Water	B/L/T PFAS	598910
240-168450-12 - DL	GW2206141750WPS-FD	Total/NA	Water	B/L/T PFAS	598919
240-168450-13 - DL	GW2206150920WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-15 - DL	GW2206151130WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-16 - DL	GW2206151220WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-17 - DL	GW2206151405WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-18 - DL	GW2206151535WPS	Total/NA	Water	B/L/T PFAS	598919
240-168450-19 - DL	GW2206151620WPS	Total/NA	Water	B/L/T PFAS	598919

Lab Chronicle

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB222206141455WPS — Lab Sample ID: 240-168450-1

Date Collected: 06/14/22 14:55 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 18:05	JY1	TAL SAC

Client Sample ID: TB222206140810WPS — Lab Sample ID: 240-168450-2

Date Collected: 06/14/22 08:10 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 18:28	JY1	TAL SAC

Client Sample ID: EB2206141500WPS — Lab Sample ID: 240-168450-3

Date Collected: 06/14/22 15:00 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 18:51	JY1	TAL SAC

Client Sample ID: SW2206141000WPS — Lab Sample ID: 240-168450-4

Date Collected: 06/14/22 10:00 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 19:13	JY1	TAL SAC

Client Sample ID: SW2206141100WPS — Lab Sample ID: 240-168450-5

Date Collected: 06/14/22 11:00 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 19:36	JY1	TAL SAC

Client Sample ID: SW2206141145WPS — Lab Sample ID: 240-168450-6

Date Collected: 06/14/22 11:45 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 19:58	JY1	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SW2206141320WPS — Lab Sample ID: 240-168450-7

Date Collected: 06/14/22 13:20 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 20:21	JY1	TAL SAC

Client Sample ID: SW2206141415WPS — Lab Sample ID: 240-168450-8

Date Collected: 06/14/22 14:15 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 20:44	JY1	TAL SAC

Client Sample ID: SW2206141520WPS — Lab Sample ID: 240-168450-9

Date Collected: 06/14/22 15:20 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 11:57	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 21:29	JY1	TAL SAC

Client Sample ID: SW2206141520WPS-FD — Lab Sample ID: 240-168450-10

Date Collected: 06/14/22 15:20 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 22:37	JY1	TAL SAC

Client Sample ID: GW2206141750WPS — Lab Sample ID: 240-168450-11

Date Collected: 06/14/22 17:50 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598910	06/27/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/10/22 23:00	JY1	TAL SAC
Total/NA	Prep	3535	DL		598910	06/27/22 12:14	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	10	602951	07/14/22 15:59	D1R	TAL SAC

Client Sample ID: GW2206141750WPS-FD — Lab Sample ID: 240-168450-12

Date Collected: 06/14/22 17:50 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 00:07	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	10	602951	07/14/22 19:00	D1R	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206150920WPS — Lab Sample ID: 240-168450-13

Date Collected: 06/15/22 09:20 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 00:30	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	50	602951	07/14/22 20:07	D1R	TAL SAC

Client Sample ID: GW2206151040WPS — Lab Sample ID: 240-168450-14

Date Collected: 06/15/22 10:40 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 01:38	JY1	TAL SAC

Client Sample ID: GW2206151130WPS — Lab Sample ID: 240-168450-15

Date Collected: 06/15/22 11:30 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 02:46	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	5	602951	07/14/22 17:52	D1R	TAL SAC

Client Sample ID: GW2206151220WPS — Lab Sample ID: 240-168450-16

Date Collected: 06/15/22 12:20 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 03:08	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	50	602951	07/14/22 20:30	D1R	TAL SAC

Client Sample ID: GW2206151405WPS — Lab Sample ID: 240-168450-17

Date Collected: 06/15/22 14:05 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 03:31	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	50	602951	07/14/22 20:53	D1R	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: GW2206151535WPS — Lab Sample ID: 240-168450-18

Date Collected: 06/15/22 15:35 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 03:53	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	5	602951	07/14/22 18:14	D1R	TAL SAC

Client Sample ID: GW2206151620WPS — Lab Sample ID: 240-168450-19

Date Collected: 06/15/22 16:20 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 04:16	JY1	TAL SAC
Total/NA	Prep	3535	DL		598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS	DL	5	602951	07/14/22 18:37	D1R	TAL SAC

Client Sample ID: GW2206151650WPS — Lab Sample ID: 240-168450-20

Date Collected: 06/15/22 16:50 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 04:39	JY1	TAL SAC

Client Sample ID: GW2206151800WPS — Lab Sample ID: 240-168450-21

Date Collected: 06/15/22 18:00 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 05:01	JY1	TAL SAC

Client Sample ID: FB220615 WPS — Lab Sample ID: 240-168450-22

Date Collected: 06/15/22 00:00 — **Matrix: Water**
Date Received: 06/17/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			598919	06/27/22 12:20	OP	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602552	07/11/22 00:53	JY1	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

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	06-30-23
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-22
Louisiana (All)	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	06-30-23
New York	NELAP	11666	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
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.

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Grand Rapids 240508

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.11
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page 1 of 4
Company: AECOM	PWSID			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs w/o/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y		
FB220614 1455 WPS	6-14-22	1455	G	Water				X									2	Field Blank
TB220614 0810 WPS	6-14-22	0810	G	Water				X									2	Trip Blank
EB220614 1500 WPS	6-14-22	1500	G	Water				X									2	Equipment Blank
SW220614 1000 WPS	6-14-22	1000	G	Water				X									2	SW001
SW220614 1100 WPS	6-14-22	1100	G	Water				X									2	SW002
SW220614 1145 WPS	6-14-22	1145	G	Water				X									2	SW003
SW220614 1320 WPS	6-14-22	1320	G	Water				X									2	SW004
SW220614 1415 WPS	6-14-22	1415	G	Water				X									2	SW005
SW220614 1520 WPS	6-14-22	1520	G	Water		X		X									6	SW006
SW220614 1520 WPS-FD	6-14-22	1520	G	Water				X									2	SW006
GW220614 1750 WPS	6-14-22	1750	G	Water				X									2	MW010 5.5'

240-168450 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Wes Stambaugh	6-16-22 1300	AECOM		6/16/22 1:00	MTL
Fed Ex	6-16-22 3:15		Rachelle Hardin	6-17-22 9:40	EETNC
Relinquished by	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Grand Rapids 240508

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.10
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: 2 of 4
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
Site:	SSOW#:			

Analysis Requested

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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs wo/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
GW22Φ614175ΦWPS-FD	6-14-22	175Φ	G	Water				X												2	MWΦ1Φ 5.5'
GW22Φ615Φ92ΦWPS	6-15-22	Φ92Φ	G	Water				X												2	MWΦΦ1 2Φ-7Φ'
GW22Φ6151Φ4ΦWPS	6-15-22	1Φ4Φ	G	Water		X		X												6	MWΦΦ3 2.Φ-7.Φ'
GW22Φ615113ΦWPS	6-15-22	113Φ	G	Water				X												2	MWΦΦ4 1.Φ-6.Φ'
GW22Φ615122ΦWPS	6-15-22	122Φ	G	Water				X												2	MWΦΦ5 1.Φ-6.Φ'
GW22Φ615145WPS	6-15-22	14Φ5	G	Water				X												2	MWΦΦ6 1.Φ-6.Φ'
GW22Φ6151535WPS	6-15-22	1535	G	Water				X												2	MWΦΦ8 2.Φ-7.Φ'
GW22Φ615162ΦWPS	6-15-22	162Φ	G	Water				X												2	MWΦΦ2 1.Φ-6.Φ'
GW22Φ615165ΦWPS	6-15-22	165Φ	G	Water				X												2	MWΦΦ7 2.Φ-7.Φ'
GW22Φ615180ΦWPS	6-15-22	18ΦΦ	G	Water				X												2	MWΦΦ9 2.Φ-7.Φ'
FB22Φ615 WPS	6-15-22		G	Water				X												2	Field Blank

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:

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
Wes Stambaugh	6-16-22 1300	AECOM	[signature]	6-16-22 1600	MTL
Fed Ex	6-16-22 3:15	MTL	Rachelle Nowicki	6-17-22 9:40	EETNC
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Grand Rapids
240508

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-96134-35234.5
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin	Page 1 4 / Page 8 of 10
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OLM03.1/4.2 VOCs wo/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sop Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y		
SD220614101 5WPS	6-14-22	1015	G	Solid			X	X									2	SD001 center
SD220614102 0WPS	6-14-22	1020	G	Solid			X	X									2	SD001 East Bank
SD220614101 25WPS	6-14-22	1025	G	Solid			X	X									2	SD001 west Bank
SD220614101 25WPS-FD	6-14-22	1025	G	Solid			X	X									2	SD001 west Bank
SD220614110 5WPS	6-14-22	1105	G	Solid			X	X									2	SD002 west Bank
SD220614111 0WPS	6-14-22	1110	G	Solid			X	X									2	SD002 center
SD220614111 5WPS	6-14-22	1115	G	Solid			X	X									2	SD002 East Bank
SD220614115 5WPS	6-14-22	1155	G	Solid			X	X									2	SD003 center
SD220614120 0WPS	6-14-22	1200	G	Solid			X	X									2	SD003 North Bank
SD220614120 5WPS	6-14-22	1205	G	Solid			X	X									2	SD003 south Bank
SD220614133 0WPS	6-14-22	1330	G	Solid			X	X									2	SD004 center

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
Wes Stambaugh	6-16-22 1300	AECOM	[illegible]	6-16-22 1:00	MSL
Fed Ex	6-16-22 3:15	MSL	Rachel Hawes	6-17-22 9:40	EETNC
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record Grand Rapids

eurofins Environment Testing America

Client Information	Sampler: W. Stambaugh	Lab PM: Brooks, Kris M 240508	Carrier Tracking No(s):	COC No: 240-96134-35234.6
Client Contact: Mike Cox	Phone: 567-239-1351	E-Mail: Kris.Brooks@et eurofinsus.com	State of Origin:	Page 4 4 / Page 4 of 4
Company: AECOM	PWSID:			Job #
Address: 3950 Sparks Drive SE	Due Date Requested:			
City: Grand Rapids	TAT Requested (days):			
State, Zip: MI, 49546	Compliance Project: Δ Yes Δ No			
Phone: 616-634-6234(Tel)	PO #: Purchase Order Requested			
Email: mike.cox@aecom.com	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
Site:	SSOW#:			

Analysis Requested

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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	8260D_MI - (MOD) VOCs + TMBs--Field MEOH pres	8015D_DRO, 8270E, Moisture	8015D_GRO - (MOD) 8015, MI GRO-Field MEOH pres	8260D - (MOD) 8260B,TCL OL.M03.1/4.2 VOCs wo/TMB	8270E - (MOD) 8270C, Michigan TCL SVOCs, Sep Fu	8015D_DRO - Must provide 1 Liter bottles!	8015D_GRO - (MOD) 8015B, MI GRO	537.1_DW - EPA 537.1 List (18 Analytes)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	F	N	N	A	N	N	A	Y					
SD22Φ6141335WPS	6-14-22	1335	G	Solid			X	X												2	SDΦΦ4 South Bank
SD22Φ6141340WPS	6-14-22	1340	G	Solid			X	X												2	SDΦΦ4 North Bank
SD22Φ6141420WPS	6-14-22	1420	G	Solid			X	X												2	SDΦΦ5 center
SD22Φ6141425WPS	6-14-22	1425	G	Solid			X	X												2	SDΦΦ5 South Bank
SD22Φ6141430WPS	6-14-22	1430	G	Solid			X	X												2	SDΦΦ5 North Bank
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

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:

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
Wes Stambaugh	6-16-22 1300	AECOM	[signature]	6-16-22 1:00	TJC
Fed Ex	6-16-22 3:15	XAC	Rachel Harrell	6-17-22 9:40	EETNC

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative **Login # :**_____
Barberton Facility

Client Accom Site Name_____ Cooler unpacked by: Rachelle Hardet

Cooler Received on 6-17-22 Opened on 6-17-22

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # 1A Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
   IR GUN# IR-13 (CF **0.0** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #IR-15 (CF **-0.7**°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity_____ Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No 6-17-22 RH
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp(Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
    If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC178690**
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____
_____
_____
_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s):_____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login # : _____

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
TA Client Box Other	IR-13 IR-15	3-4	3.4	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15	1-8	1-8	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15	2-3	2-3	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
☐ See Temperature Excursion Form				

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FB222206141455WPS (240-168450-1)	6/14/22	14:55 Eastern		Water			X			2	
FB222206140810WPS (240-168450-2)	6/14/22	08:10 Eastern		Water			X			2	
EB2206141500WPS (240-168450-3)	6/14/22	15:00 Eastern		Water			X			2	
SW2206141000WPS (240-168450-4)	6/14/22	10:00 Eastern		Water			X			2	
SW2206141100WPS (240-168450-5)	6/14/22	11:00 Eastern		Water			X			2	
SW2206141145WPS (240-168450-8)	6/14/22	11:45 Eastern		Water			X			2	
SW2206141320WPS (240-168450-7)	6/14/22	13:20 Eastern		Water			X			2	
SW2206141415WPS (240-168450-8)	6/14/22	14:15 Eastern		Water			X			2	
SW2206141520WPS (240-168450-9)	6/14/22	15:20 Eastern		Water			X			6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*		***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)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Rachelle Harriet	Date/Time: 6/20/22 11:46	Company: EETNC	Received by:	Date/Time: 6/21/22 9:55	Company: [illegible]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 13c

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GW2206141520WPS MS (240-168450-9MS)	6/14/22	15:20 Eastern	MS	Water			X			1	
GW2206141520WPS MSD (240-168450-9MSD)	6/14/22	15:20 Eastern	MSD	Water			X			1	
GW2206141520WPS-FD (240-168450-10)	6/14/22	15:20 Eastern		Water			X			2	
GW2206141750WPS (240-168450-11)	6/14/22	17:50 Eastern		Water			X			2	
GW2206141750WPS-FD (240-168450-12)	6/14/22	17:50 Eastern		Water			X			2	
GW2206150920WPS (240-168450-13)	6/15/22	09:20 Eastern		Water			X			2	
GW2206151040WPS (240-168450-14)	6/15/22	10:40 Eastern		Water			X			6	
GW2206151040WPS MS (240-168450-14MS)	6/15/22	10:40 Eastern	MS	Water			X			1	
GW2206151040WPS MSD (240-168450-14MSD)	6/15/22	10:40 Eastern	MSD	Water			X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Rachelle Harris	Date/Time: 6-20-22 11:46	Company: ETNC	Received by:	Date/Time: 6-21-22 955	Company: ETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3c		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GW2206151130WPS (240-168450-15)	6/15/22	11:30 Eastern		Water			X			2	
GW2206151220WPS (240-168450-16)	6/15/22	12:20 Eastern		Water			X			2	
GW2206151405WPS (240-168450-17)	6/15/22	14:05 Eastern		Water			X			2	
GW2206151535WPS (240-168450-18)	6/15/22	15:35 Eastern		Water			X			2	
GW2206151620WPS (240-168450-19)	6/15/22	16:20 Eastern		Water			X			2	
GW2206151650WPS (240-168450-20)	6/15/22	16:50 Eastern		Water			X			2	
GW2206151800WPS (240-168450-21)	6/15/22	18:00 Eastern		Water			X			2	
FB220615 WPS (240-168450-22)	6/15/22	Eastern		Water			X			2	
SD2206141015WPS (240-168450-23)	6/14/22	10:15 Eastern		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Rachelle Harold	Date/Time: 6-30-22 11:46	Company: EETNC	Received by:	Date/Time: 6-30-22 955	Company:
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 4 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SD2206141020WPS (240-168450-24)	6/14/22	10:20 Eastern		Solid				X	X	2	
SD2206141025WPS (240-168450-25)	6/14/22	10:25 Eastern		Solid				X	X	2	
SD2206141025WPS-FD (240-168450-26)	6/14/22	10:25 Eastern		Solid				X	X	2	
SD2206141105WPS (240-168450-27)	6/14/22	11:05 Eastern		Solid				X	X	2	
SD2206141110WPS (240-168450-28)	6/14/22	11:10 Eastern		Solid				X	X	2	
SD2206141115WPS (240-168450-29)	6/14/22	11:15 Eastern		Solid				X	X	2	
SD2206141155WPS (240-168450-30)	6/14/22	11:55 Eastern		Solid				X	X	2	
SD2206141200WPS (240-168450-31)	6/14/22	12:00 Eastern		Solid				X	X	2	
SD2206141205WPS (240-168450-32)	6/14/22	12:05 Eastern		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification Unconfirmed	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Rachelle Harold	Date/Time: 6-20-22 11:46	Company: EETNC	Received by:	Date/Time: 6-21-22 9:55	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 5 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Fonner McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SD2206141330WPS (240-168450-33)	6/14/22	13:30 Eastern		Solid				X	X	2	
SD2206141335WPS (240-168450-34)	6/14/22	13:35 Eastern		Solid				X	X	2	
SD2206141340WPS (240-168450-35)	6/14/22	13:40 Eastern		Solid				X	X	2	
SD2206141420WPS (240-168450-36)	6/14/22	14:20 Eastern		Solid				X	X	2	
SD2206141425WPS (240-168450-37)	6/14/22	14:25 Eastern		Solid				X	X	2	
SD2206141430WPS (240-168450-38)	6/14/22	14:30 Eastern		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rachelle Harvey	Date/Time: 6/20/22 11:46	Company: EETNC	Received by:	Date/Time: 6/21/22 955	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3c		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
Site:	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FB222206141455WPS (240-168450-1)	6/14/22	14:55 Eastern		Water			X			2	
FB222206140810WPS (240-168450-2)	6/14/22	08:10 Eastern		Water			X			2	
EB2206141500WPS (240-168450-3)	6/14/22	15:00 Eastern		Water			X			2	
SW2206141000WPS (240-168450-4)	6/14/22	10:00 Eastern		Water			X			2	
SW2206141100WPS (240-168450-5)	6/14/22	11:00 Eastern		Water			X			2	
SW2206141145WPS (240-168450-6)	6/14/22	11:45 Eastern		Water			X			2	
SW2206141320WPS (240-168450-7)	6/14/22	13:20 Eastern		Water			X			2	
SW2206141415WPS (240-168450-8)	6/14/22	14:15 Eastern		Water			X			2	
SW2206141520WPS (240-168450-9)	6/14/22	15:20 Eastern		Water			X			6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Rachelle Hurlet	6/20/22 11:46	ETNC		6/21/22 9:55	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3c

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SW2206141520WPS MS (240-168450-9MS)	6/14/22	15:20 Eastern	MS	Water			X			1	
SW2206141520WPS MSD (240-168450-9MSD)	6/14/22	15:20 Eastern	MSD	Water			X			1	
SW2206141520WPS-FD (240-168450-10)	6/14/22	15:20 Eastern		Water			X			2	
GW2206141750WPS (240-168450-11)	6/14/22	17:50 Eastern		Water			X			2	
GW2206141750WPS-FD (240-168450-12)	6/14/22	17:50 Eastern		Water			X			2	
GW2206150920WPS (240-168450-13)	6/15/22	09:20 Eastern		Water			X			2	
GW2206151040WPS (240-168450-14)	6/15/22	10:40 Eastern		Water			X			6	
GW2206151040WPS MS (240-168450-14MS)	6/15/22	10:40 Eastern	MS	Water			X			1	
GW2206151040WPS MSD (240-168450-14MSD)	6/15/22	10:40 Eastern	MSD	Water			X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rachelle Harold	Date/Time: 6-20-22 11:46	Company: EETNC	Received by:	Date/Time: 6-21-22	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GW2206151130WPS (240-168450-15)	6/15/22	11:30 Eastern		Water			X			2	
GW2206151220WPS (240-168450-16)	6/15/22	12:20 Eastern		Water			X			2	
GW2206151405WPS (240-168450-17)	6/15/22	14:05 Eastern		Water			X			2	
GW2206151535WPS (240-168450-18)	6/15/22	15:35 Eastern		Water			X			2	
GW2206151620WPS (240-168450-19)	6/15/22	16:20 Eastern		Water			X			2	
GW2206151650WPS (240-168450-20)	6/15/22	16:50 Eastern		Water			X			2	
GW2206151800WPS (240-168450-21)	6/15/22	18:00 Eastern		Water			X			2	
FB220615 WPS (240-168450-22)	6/15/22	Eastern		Water			X			2	
SD2206141015WPS (240-168450-23)	6/14/22	10:15 Eastern		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification Unconfirmed	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Michelle Harvey	Date/Time: 6/20/22 11:46	Company: EETNC	Received by:	Date/Time: 6/21/22 955	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3c		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No 240-153715.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 4 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SD2206141020WPS (240-168450-24)	6/14/22	10:20 Eastern		Solid				X	X	2	
SD2206141025WPS (240-168450-25)	6/14/22	10:25 Eastern		Solid				X	X	2	
SD2206141025WPS-FD (240-168450-26)	6/14/22	10:25 Eastern		Solid				X	X	2	
SD2206141105WPS (240-168450-27)	6/14/22	11:05 Eastern		Solid				X	X	2	
SD2206141110WPS (240-168450-28)	6/14/22	11:10 Eastern		Solid				X	X	2	
SD2206141115WPS (240-168450-29)	6/14/22	11:15 Eastern		Solid				X	X	2	
SD2206141155WPS (240-168450-30)	6/14/22	11:55 Eastern		Solid				X	X	2	
SD2206141200WPS (240-168450-31)	6/14/22	12:00 Eastern		Solid				X	X	2	
SD2206141205WPS (240-168450-32)	6/14/22	12:05 Eastern		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification *Unconfirmed*			***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)	Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Danielle Harold	Date/Time: 6-20-22 11:46	Company: EETNC	Received by:	Date/Time: 6-21-22 9:55	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3c		

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-153715.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 5 of 5
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-168450-1
Address: 880 Riverside Parkway,	Due Date Requested: 7/11/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/3535_PFC (MOD) Michigan 31	PFC_IDA_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SD2206141330WPS (240-168450-33)	6/14/22	13:30 Eastern		Solid				X	X	2	
SD2206141335WPS (240-168450-34)	6/14/22	13:35 Eastern		Solid				X	X	2	
SD2206141340WPS (240-168450-35)	6/14/22	13:40 Eastern		Solid				X	X	2	
SD2206141420WPS (240-168450-36)	6/14/22	14:20 Eastern		Solid				X	X	2	
SD2206141425WPS (240-168450-37)	6/14/22	14:25 Eastern		Solid				X	X	2	
SD2206141430WPS (240-168450-38)	6/14/22	14:30 Eastern		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Rachelle Hurst	Date/Time: 6/20/22 11:46	Company: ETNC	Received by:	Date/Time: 6/20/22 955	Company: [illegible]	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.3c			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 240-168450-1

Login Number: 168450
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 06/21/22 03:33 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.	N/A	
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	1.3c
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	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 240-168450-1

Login Number: 168450
List Number: 3
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 06/22/22 03:55 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.	N/A	
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	1.3c 10.7c
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

240-168450 Field Sheet

Job: _____

Tracking # : 5570 5704 4541

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 ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: _____

Cooler ID: 2 of 2

Temp Observed: 1.3 °C Corrected: 1.3 °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: 6-21-22

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: KB Date: 6-21-22

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: KB Date: 6-21-22

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Sacramento Sample Receiving Notes

240-168450 Field Sheet

Job: _____

Tracking # : 5570 5704 4541

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 / Wet / Gel _____ Other _____

Cooler Custody Seal: _____

Cooler ID: 2 of 2

Temp Observed: 1.3 °C Corrected: 1.3 °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: 6-21-22

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: KB Date: 6-21-22

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: KB Date: 6-21-22

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Sacramento Sample Receiving Notes

Place Field Sheet Label Here

Job: _____

Tracking # : 5576 5704 6530

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: 1 Corr. Factor: (+ / -) _____ °C

Ice _____ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: _____

Cooler ID: 1 of 2

Temp Observed: 10.7 °C Corrected: 10.7 °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: DF Date: 6/22/22

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: 6-22-22

Notes:

#3 - 2/2 #5 2/2 #6 2/2 #7 2/2 #20 2/2 these samples have 2 of 2, out of temp.

#8, #10, #11, #12, #13, #17, #21 all have 1 of 2 out of temp.

#23, #24, #25, #26, #27, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38 these samples have 2 of 2 out of temp, and compromised by water.

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: JB Date: 6-22-22

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS

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)
240-168450-1	FB222206141455WPS	100	105	107	105	104	103	103	102
240-168450-2	TB222206140810WPS	98	103	105	104	102	100	97	98
240-168450-3	EB2206141500WPS	103	101	101	102	99	97	91	84
240-168450-4	SW2206141000WPS	89	101	104	104	100	100	97	95
240-168450-5	SW2206141100WPS	86	96	99	102	100	94	93	94
240-168450-6	SW2206141145WPS	89	107	105	105	101	101	101	99
240-168450-7	SW2206141320WPS	92	102	106	105	103	104	100	95
240-168450-8	SW2206141415WPS	86	99	99	100	96	98	89	90
240-168450-9	SW2206141520WPS	65	82	84	86	84	82	77	75
240-168450-9 MS	SW2206141520WPS MS	61	77	79	82	79	78	76	75
240-168450-9 MSD	SW2206141520WPS MSD	67	93	94	99	92	91	89	85
240-168450-10	SW2206141520WPS-FD	71	102	105	110	104	102	100	97
240-168450-11	GW2206141750WPS	72	105	101	101	101	100	97	91
240-168450-11 - DL	GW2206141750WPS								
240-168450-12	GW2206141750WPS-FD	75	108	107	107	105	103	102	93
240-168450-12 - DL	GW2206141750WPS-FD								
240-168450-13	GW2206150920WPS	78	98	94	98	94	88	88	78
240-168450-13 - DL	GW2206150920WPS								
240-168450-14	GW2206151040WPS	85	103	103	108	103	102	101	97
240-168450-14 MS	GW2206151040WPS MS	83	99	103	104	104	102	99	104
240-168450-14 MSD	GW2206151040WPS MSD	75	92	90	92	88	89	87	84
240-168450-15	GW2206151130WPS	90	103	103	101	96	95	96	96
240-168450-15 - DL	GW2206151130WPS								
240-168450-16	GW2206151220WPS	80			102	98	98	103	96
240-168450-16 - DL	GW2206151220WPS		96	101					
240-168450-17	GW2206151405WPS	88	99		106	103	97	100	100
240-168450-17 - DL	GW2206151405WPS			104					
240-168450-18	GW2206151535WPS	98	110	107	110	105	105	100	103
240-168450-18 - DL	GW2206151535WPS								
240-168450-19	GW2206151620WPS	65	92	96	97	92	93	87	85
240-168450-19 - DL	GW2206151620WPS								
240-168450-20	GW2206151650WPS	75	98	96	100	98	97	96	95
240-168450-21	GW2206151800WPS	91	104	98	101	97	95	89	75
240-168450-22	FB220615 WPS	103	104	104	107	103	104	102	102
LCS 320-598910/2-A	Lab Control Sample	103	101	104	104	100	101	101	100
LCS 320-598919/2-A	Lab Control Sample	99	105	102	108	101	103	103	100
MB 320-598910/1-A	Method Blank	103	102	105	108	103	105	102	104
MB 320-598919/1-A	Method Blank	100	104	106	109	104	105	104	102

		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 (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
240-168450-1	FB222206141455WPS	98	89	108	99	95	94	103	98
240-168450-2	TB222206140810WPS	95	86	105	97	90	88	99	93
240-168450-3	EB2206141500WPS	76	71	98	98	86	68	85	78
240-168450-4	SW2206141000WPS	87	74	104	99	94	97	95	94
240-168450-5	SW2206141100WPS	87	72	100	92	92	93	94	93
240-168450-6	SW2206141145WPS	90	72	97	97	95	95	100	100
240-168450-7	SW2206141320WPS	92	74	103	102	99	100	100	94
240-168450-8	SW2206141415WPS	81	68	98	93	90	89	88	84

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
240-168450-9	SW2206141520WPS	74	61	82	81	76	80	79	77
240-168450-9 MS	SW2206141520WPS MS	67	57	78	76	73	73	74	71
240-168450-9 MSD	SW2206141520WPS MSD	75	59	92	89	85	88	88	85
240-168450-10	SW2206141520WPS-FD	88	65	100	98	96	99	99	97
240-168450-11	GW2206141750WPS	78	70	104		92	96	92	82
240-168450-11 - DL	GW2206141750WPS				97	86			
240-168450-12	GW2206141750WPS-FD	88	78	109		97	101	99	94
240-168450-12 - DL	GW2206141750WPS-FD				99	95			
240-168450-13	GW2206150920WPS	72	68	97		73	84	80	77
240-168450-13 - DL	GW2206150920WPS				82	70	77		
240-168450-14	GW2206151040WPS	85	74	102	97	93	96	99	92
240-168450-14 MS	GW2206151040WPS MS	96	79	103	94	96	95	104	99
240-168450-14 MSD	GW2206151040WPS MSD	83	73	91	87	83	86	88	83
240-168450-15	GW2206151130WPS	86	69	99	99	93	93	98	97
240-168450-15 - DL	GW2206151130WPS					88			
240-168450-16	GW2206151220WPS	98	83	105		86	95	102	101
240-168450-16 - DL	GW2206151220WPS				91	81	86		
240-168450-17	GW2206151405WPS	96	81	102		84	95	101	94
240-168450-17 - DL	GW2206151405WPS				95	89	86		
240-168450-18	GW2206151535WPS	102	81	112	103	101	104	108	105
240-168450-18 - DL	GW2206151535WPS					91			
240-168450-19	GW2206151620WPS	72	63	97		85	88	86	82
240-168450-19 - DL	GW2206151620WPS				91				
240-168450-20	GW2206151650WPS	88	74	95	92	90	91	94	90
240-168450-21	GW2206151800WPS	65	62	95	91	85	88	77	71
240-168450-22	FB220615 WPS	93	89	106	100	97	93	99	91
LCS 320-598910/2-A	Lab Control Sample	99	91	103	98	95	92	103	99
LCS 320-598919/2-A	Lab Control Sample	101	96	104	98	98	96	105	103
MB 320-598910/1-A	Method Blank	101	90	104	100	97	95	107	101
MB 320-598919/1-A	Method Blank	107	90	106	98	99	96	103	101

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
240-168450-1	FB222206141455WPS	114	104	100	107
240-168450-2	TB222206140810WPS	108	108	103	105
240-168450-3	EB2206141500WPS	107	104	96	104
240-168450-4	SW2206141000WPS	102	96	95	103
240-168450-5	SW2206141100WPS	100	98	92	101
240-168450-6	SW2206141145WPS	98	99	99	105
240-168450-7	SW2206141320WPS	107	101	100	106
240-168450-8	SW2206141415WPS	95	98	96	104
240-168450-9	SW2206141520WPS	84	80	80	85
240-168450-9 MS	SW2206141520WPS MS	78	78	77	80
240-168450-9 MSD	SW2206141520WPS MSD	97	95	89	96
240-168450-10	SW2206141520WPS-FD	105	107	104	107
240-168450-11	GW2206141750WPS	108	105	96	102
240-168450-11 - DL	GW2206141750WPS				
240-168450-12	GW2206141750WPS-FD	113	107	105	107
240-168450-12 - DL	GW2206141750WPS-FD				
240-168450-13	GW2206150920WPS	102			98

Isotope Dilution Summary

Client: AECOM
Job ID: 240-168450-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	**Client Sample ID**	**M242FTS (25-150)**	**M262FTS (25-150)**	**M282FTS (25-150)**	**HFPODA (25-150)**
240-168450-13 - DL	GW2206150920WPS		105	103	
240-168450-14	GW2206151040WPS	104	100	102	104
240-168450-14 MS	GW2206151040WPS MS	117	107	106	105
240-168450-14 MSD	GW2206151040WPS MSD	94	93	87	94
240-168450-15	GW2206151130WPS	104	104	103	104
240-168450-15 - DL	GW2206151130WPS				
240-168450-16	GW2206151220WPS	97		104	102
240-168450-16 - DL	GW2206151220WPS		122		
240-168450-17	GW2206151405WPS	104	98	103	107
240-168450-17 - DL	GW2206151405WPS				
240-168450-18	GW2206151535WPS	106	104	107	107
240-168450-18 - DL	GW2206151535WPS				
240-168450-19	GW2206151620WPS	96	96	94	96
240-168450-19 - DL	GW2206151620WPS				
240-168450-20	GW2206151650WPS	90	93	97	99
240-168450-21	GW2206151800WPS	102	99	89	100
240-168450-22	FB220615 WPS	108	108	104	108
LCS 320-598910/2-A	Lab Control Sample	107	102	101	103
LCS 320-598919/2-A	Lab Control Sample	101	107	106	108
MB 320-598910/1-A	Method Blank	113	110	106	106
MB 320-598919/1-A	Method Blank	109	106	107	107

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA

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ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-169155-1
Client Project/Site: Former McDonalds Country Store, Ocscoda,

For:
AECOM
3950 Sparks Drive SE
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Authorized for release by:
7/19/2022 8:27:44 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
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: 240-169155-1

Laboratory: Eurofins Canton

Narrative

Job Narrative
240-169155-1

Comments
The EPA Method 537 (modified) Fluorinated Alkyl Substances, EPA methodologies Branched Linear and Total PFAS, and ASTM Method D2216-80 Percent Solids analyses were performed at the Eurofins Sacramento laboratory.

Receipt
The samples were received on 7/1/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

LCMS
Method B/L/T PFAS: The retention time (RT) of the internal standard was outside control limits in the continuing calibration verification (CCV) associated to 320-602951. The samples associated to this CCV were within RT criteria. The identification and quantitation of target analytes and isotope dilution analytes is not impacted by this anomaly and the data reported. (CCV 320-602951/11)

Method B/L/T PFAS: The laboratory control sample duplicate (LCSD) for preparation batch 320-602165 and analytical batch 320-603459 recovered outside control limits for the following analyte: 11Cl-PF3OUdS. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method B/L/T PFAS: 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. SD22062991310WPS (240-169155-2), SD22062991330WPS (240-169155-7), SD22062991445WPS (240-169155-16), (240-169155-A-16-B MS) and (240-169155-A-16-C MSD)

Method B/L/T PFAS: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: SD22062991335WPS (240-169155-8). These analytes have been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

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

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 320-600763 was outside control limits. Sample non-homogeneity is suspected. Sample matrix was dry soil. Samples were not re-extracted and reanalyzed because the moisture content for the parent sample and its duplicate was less than 10%. The relative percent difference (RPD) for solids is within acceptable limits (320-89642-D-1 DU)

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 sample's ID did not match Eurofin's label: EB22062991350WPS (240-169155-17). Client Label was as follows "EB2206291350WPS", whereas Eurofin's label was "EB22062991350WPS".

preparation batch 320-602165
Method Code: 3535_PFC
Matrix: Water

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

Method Summary

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Method	Method Description	Protocol	Laboratory
B/L/T PFAS	Branched, Linear and Total PFAS	EPA	TAL SAC
Moisture	Percent Moisture	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	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: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-169155-1	SD2206291305WPS	Solid	06/29/22 13:05	07/01/22 09:45
240-169155-2	SD2206291310WPS	Solid	06/29/22 13:10	07/01/22 09:45
240-169155-3	SD2206291315WPS	Solid	06/29/22 13:15	07/01/22 09:45
240-169155-4	SD2206291235WPS	Solid	06/29/22 12:35	07/01/22 09:45
240-169155-5	SD2206291240WPS	Solid	06/29/22 12:40	07/01/22 09:45
240-169155-6	SD2206291245WPS	Solid	06/29/22 12:45	07/01/22 09:45
240-169155-7	SD2206291330WPS	Solid	06/29/22 13:30	07/01/22 09:45
240-169155-8	SD2206291335WPS	Solid	06/29/22 13:35	07/01/22 09:45
240-169155-9	SD2206291340WPS	Solid	06/29/22 13:40	07/01/22 09:45
240-169155-10	SD2206291245WPS-FD	Solid	06/29/22 12:45	07/01/22 09:45
240-169155-11	SD2206291410WPS	Solid	06/29/22 14:10	07/01/22 09:45
240-169155-12	SD2206291415WPS	Solid	06/29/22 14:15	07/01/22 09:45
240-169155-13	SD2206291420WPS	Solid	06/29/22 14:20	07/01/22 09:45
240-169155-14	SD2206291435WPS	Solid	06/29/22 14:35	07/01/22 09:45
240-169155-15	SD2206291440WPS	Solid	06/29/22 14:40	07/01/22 09:45
240-169155-16	SD2206291445WPS	Solid	06/29/22 14:45	07/01/22 09:45
240-169155-17	EB2206291350WPS	Water	06/29/22 13:50	07/01/22 09:45
240-169155-18	FB2206291355WPS	Water	06/29/22 13:55	07/01/22 09:45

Detection Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291305WPS — Lab Sample ID: 240-169155-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.14	J	0.26	0.056	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.92		0.26	0.056	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.78		0.26	0.056	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291310WPS — Lab Sample ID: 240-169155-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOA	0.29	J	0.31	0.081	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.18	J	0.31	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.18	J	0.31	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.17	J	0.31	0.044	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	1.8		0.31	0.044	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.68		0.31	0.066	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.21	J	0.31	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	7.2		0.31	0.066	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	1.6	I	0.31	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.44		0.31	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.052	J	0.31	0.034	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	6.5		0.31	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.29	J	0.31	0.081	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.20	J	0.31	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.32		0.31	0.063	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	0.13	J	0.31	0.044	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.10	J	0.31	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291315WPS — Lab Sample ID: 240-169155-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.11	J	0.23	0.050	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.36		0.23	0.050	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.25		0.23	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291235WPS — Lab Sample ID: 240-169155-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.10	J	0.24	0.052	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.60		0.24	0.052	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.50		0.24	0.052	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291240WPS — Lab Sample ID: 240-169155-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOA	0.13	J	0.29	0.076	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.086	J	0.29	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.97		0.29	0.062	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.071	J	0.29	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	11		0.29	0.062	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.066	J	0.29	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.096	J	0.29	0.032	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	10		0.29	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.13	J	0.29	0.076	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.062	J	0.29	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291245WPS — Lab Sample ID: 240-169155-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.094	J	0.24	0.053	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.35		0.24	0.053	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.25		0.24	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291330WPS — Lab Sample ID: 240-169155-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOA	0.23	J	0.31	0.082	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.067	J	0.31	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.17	J	0.31	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	0.078	J	0.31	0.045	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	0.79		0.31	0.045	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.98		0.31	0.067	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.27	J	0.31	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	12		0.31	0.067	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	0.71	I	0.31	0.045	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.58		0.31	0.048	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	11		0.31	0.067	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.23	J	0.31	0.082	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.078	J	0.31	0.057	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.56		0.31	0.064	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	0.071	J	0.31	0.053	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291335WPS — Lab Sample ID: 240-169155-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanoic acid	0.15	J	0.35	0.092	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOA	2.5		0.35	0.092	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanesulfonic acid	0.72		0.35	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	1.0		0.35	0.080	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorohexanesulfonic acid	1.3		0.35	0.050	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFHxS	14		0.35	0.050	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanesulfonic acid	2.6		0.35	0.085	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	96	E	0.35	0.075	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	1.3		0.35	0.066	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	210		0.35	0.075	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorohexanesulfonic acid	13		0.35	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	3.1		0.35	0.054	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.97		0.35	0.038	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	110	E	0.35	0.075	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	2.3		0.35	0.092	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanesulfonic acid	0.98		0.35	0.064	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	4.3		0.35	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA
FBSA	0.97		0.35	0.050	ng/g	1	☼	B/L/T PFAS	Total/NA
FHxSA	3.1		0.35	0.059	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291340WPS — Lab Sample ID: 240-169155-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.11	J	0.27	0.058	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.35		0.27	0.058	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.24	J	0.27	0.058	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291245WPS-FD — Lab Sample ID: 240-169155-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Br-Perfluorooctanesulfonic acid	0.095	J	0.24	0.051	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	0.61		0.24	0.051	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.52		0.24	0.051	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291410WPS — Lab Sample ID: 240-169155-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOA	0.28	J	0.39	0.10	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.45		0.39	0.090	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.32	J	0.39	0.084	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.15	J	0.39	0.074	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	4.8		0.39	0.084	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.10	J	0.39	0.061	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.19	J	0.39	0.043	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	4.4		0.39	0.084	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.28	J	0.39	0.10	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.084	J	0.39	0.080	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291415WPS — Lab Sample ID: 240-169155-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOA	0.25	J	0.36	0.096	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.43		0.36	0.084	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.43		0.36	0.078	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.19	J	0.36	0.069	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	6.3		0.36	0.078	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.10	J	0.36	0.056	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.13	J	0.36	0.040	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	5.9		0.36	0.078	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.25	J	0.36	0.096	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.10	J	0.36	0.075	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291420WPS — Lab Sample ID: 240-169155-13

No Detections.

Client Sample ID: SD2206291435WPS — Lab Sample ID: 240-169155-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.16	J	0.33	0.076	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.16	J	0.33	0.071	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Total PFOS	1.4		0.33	0.071	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorononanoic acid	0.042	J	0.33	0.036	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	1.3		0.33	0.071	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291440WPS — Lab Sample ID: 240-169155-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOA	0.35	J	0.36	0.094	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorobutanoic acid	0.47		0.36	0.082	ng/g	1	☼	B/L/T PFAS	Total/NA
Br-Perfluorooctanesulfonic acid	0.35	J	0.36	0.076	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluoroheptanoic acid	0.14	J	0.36	0.068	ng/g	1	☼	B/L/T PFAS	Total/NA
Total PFOS	6.5		0.36	0.076	ug/Kg	1	☼	B/L/T PFAS	Total/NA
Perfluorohexanoic acid	0.098	J	0.36	0.055	ng/g	1	☼	B/L/T PFAS	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Detection Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291440WPS (Continued) — Lab Sample ID: 240-169155-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.22	J	0.36	0.039	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	6.2		0.36	0.076	ng/g	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanoic acid	0.35	J	0.36	0.094	ng/g	1	☼	B/L/T PFAS	Total/NA
Perfluoropentanoic acid	0.13	J	0.36	0.073	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: SD2206291445WPS — Lab Sample ID: 240-169155-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFOS	0.26	J	0.29	0.062	ug/Kg	1	☼	B/L/T PFAS	Total/NA
L-Perfluorooctanesulfonic acid	0.26	J I	0.29	0.062	ng/g	1	☼	B/L/T PFAS	Total/NA

Client Sample ID: EB2206291350WPS — Lab Sample ID: 240-169155-17

No Detections.

Client Sample ID: FB2206291355WPS — Lab Sample ID: 240-169155-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291305WPS

Date Collected: 06/29/22 13:05
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-1

Matrix: Solid
Percent Solids: 75.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.26	0.040	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
4:2 Fluorotelomer sulfonic acid	ND		0.26	0.066	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
6:2 Fluorotelomer sulfonic acid	ND		0.26	0.035	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
8:2 Fluorotelomer sulfonic acid	ND		0.26	0.045	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
9Cl-PF3ONS	ND		0.26	0.045	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Br-Perfluorooctanoic acid	ND		0.26	0.068	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Total PFOA	ND		0.26	0.068	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
DONA	ND		0.26	0.050	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
HFPODA	ND		0.26	0.053	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.062	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.030	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorobutanesulfonic acid	ND		0.26	0.049	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorobutanoic acid	ND		0.26	0.059	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Br-Perfluorohexanesulfonic acid	ND		0.26	0.037	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorodecanesulfonic acid	ND		0.26	0.067	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorodecanoic acid	ND		0.26	0.062	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Total PFHxS	ND		0.26	0.037	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorododecanoic acid	ND		0.26	0.039	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluoroheptanesulfonic acid	ND		0.26	0.063	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Br-Perfluorooctanesulfonic acid	**0.14**	**J**	0.26	0.056	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluoroheptanoic acid	ND		0.26	0.049	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Total PFOS	**0.92**		0.26	0.056	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
L-Perfluorohexanesulfonic acid	ND		0.26	0.037	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorohexanoic acid	ND		0.26	0.040	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorononanesulfonic acid	ND		0.26	0.037	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorononanoic acid	ND		0.26	0.028	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorooctanesulfonamide	ND		0.26	0.043	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.030	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
L-Perfluorooctanesulfonic acid	**0.78**		0.26	0.056	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
L-Perfluorooctanoic acid	ND		0.26	0.068	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Total NMeFOSAA	ND		0.26	0.030	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluoropentanesulfonic acid	ND		0.26	0.048	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.062	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluoropentanoic acid	ND		0.26	0.053	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorotetradecanoic acid	ND		0.26	0.048	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Total NEtFOSAA	ND		0.26	0.062	ug/Kg	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluorotridecanoic acid	ND		0.26	0.027	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluoroundecanoic acid	ND		0.26	0.054	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.26	0.057	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
FBSA	ND		0.26	0.037	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1
FHxSA	ND		0.26	0.044	ng/g	☼	07/07/22 12:24	07/16/22 16:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
M2-6:2 FTS	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
M2-8:2 FTS	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291305WPS
Lab Sample ID: 240-169155-1

Date Collected: 06/29/22 13:05
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 75.3

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*42*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C3 HFPO-DA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C3 PFBS	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C4 PFBA	*64*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C4 PFHpA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C5 PFPeA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
d3-NMeFOSAA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
d5-NEtFOSAA	*59*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C8 FOSA	*54*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C2 PFHxA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C4 PFOA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C5 PFNA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C2 PFDA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C2 PFUnA	*56*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C2 PFDoA	*40*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
18O2 PFHxS	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*
13C4 PFOS	*60*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.7**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**75.3**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291310WPS

Date Collected: 06/29/22 13:10
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-2

Matrix: Solid
Percent Solids: 63.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.31	0.048	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
4:2 Fluorotelomer sulfonic acid	ND		0.31	0.078	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
6:2 Fluorotelomer sulfonic acid	ND		0.31	0.041	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
8:2 Fluorotelomer sulfonic acid	ND		0.31	0.054	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
9Cl-PF3ONS	ND		0.31	0.054	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Br-Perfluorooctanoic acid	ND		0.31	0.081	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Total PFOA	**0.29**	**J**	0.31	0.081	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
DONA	ND		0.31	0.060	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
HFPODA	ND		0.31	0.063	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.31	0.074	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.31	0.035	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorobutanesulfonic acid	**0.18**	**J**	0.31	0.058	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorobutanoic acid	**0.18**	**J**	0.31	0.071	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Br-Perfluorohexanesulfonic acid	**0.17**	**J**	0.31	0.044	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorodecanesulfonic acid	ND		0.31	0.080	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorodecanoic acid	ND		0.31	0.074	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Total PFHxS	**1.8**		0.31	0.044	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorododecanoic acid	ND		0.31	0.046	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluoroheptanesulfonic acid	ND		0.31	0.075	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Br-Perfluorooctanesulfonic acid	**0.68**		0.31	0.066	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluoroheptanoic acid	**0.21**	**J**	0.31	0.058	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Total PFOS	**7.2**		0.31	0.066	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
L-Perfluorohexanesulfonic acid	**1.6**	**I**	0.31	0.044	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorohexanoic acid	**0.44**		0.31	0.048	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorononanesulfonic acid	ND		0.31	0.044	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorononanoic acid	**0.052**	**J**	0.31	0.034	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorooctanesulfonamide	ND		0.31	0.051	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.31	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
L-Perfluorooctanesulfonic acid	**6.5**		0.31	0.066	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
L-Perfluorooctanoic acid	**0.29**	**J**	0.31	0.081	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Total NMeFOSAA	ND		0.31	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluoropentanesulfonic acid	**0.20**	**J**	0.31	0.057	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.31	0.074	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluoropentanoic acid	**0.32**		0.31	0.063	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorotetradecanoic acid	ND		0.31	0.057	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Total NEtFOSAA	ND		0.31	0.074	ug/Kg	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluorotridecanoic acid	ND		0.31	0.032	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluoroundecanoic acid	ND		0.31	0.064	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.31	0.067	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
FBSA	**0.13**	**J**	0.31	0.044	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1
FHxSA	**0.10**	**J**	0.31	0.052	ng/g	☼	07/07/22 12:24	07/16/22 17:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
M2-6:2 FTS	*87*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291310WPS
Lab Sample ID: 240-169155-2

Date Collected: 06/29/22 13:10
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 63.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C3 HFPO-DA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C3 PFBS	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C4 PFBA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C4 PFHpA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C5 PFPeA	*79*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
d3-NMeFOSAA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C8 FOSA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C2 PFHxA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C4 PFOA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C5 PFNA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C2 PFDA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C2 PFUnA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C2 PFDoA	*60*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
18O2 PFHxS	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*
13C4 PFOS	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.0**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**63.0**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291315WPS

Date Collected: 06/29/22 13:15
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-3

Matrix: Solid
Percent Solids: 77.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.23	0.036	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
4:2 Fluorotelomer sulfonic acid	ND		0.23	0.059	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
6:2 Fluorotelomer sulfonic acid	ND		0.23	0.031	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
8:2 Fluorotelomer sulfonic acid	ND		0.23	0.040	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
9Cl-PF3ONS	ND		0.23	0.040	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Br-Perfluorooctanoic acid	ND		0.23	0.061	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Total PFOA	ND		0.23	0.061	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
DONA	ND		0.23	0.045	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
HFPODA	ND		0.23	0.047	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.027	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorobutanesulfonic acid	ND		0.23	0.044	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorobutanoic acid	ND		0.23	0.053	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Br-Perfluorohexanesulfonic acid	ND		0.23	0.034	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorodecanesulfonic acid	ND		0.23	0.060	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorodecanoic acid	ND		0.23	0.055	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Total PFHxS	ND		0.23	0.034	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorododecanoic acid	ND		0.23	0.035	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluoroheptanesulfonic acid	ND		0.23	0.057	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Br-Perfluorooctanesulfonic acid	**0.11**	**J**	0.23	0.050	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluoroheptanoic acid	ND		0.23	0.044	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Total PFOS	**0.36**		0.23	0.050	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
L-Perfluorohexanesulfonic acid	ND		0.23	0.034	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorohexanoic acid	ND		0.23	0.036	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorononanesulfonic acid	ND		0.23	0.034	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorononanoic acid	ND		0.23	0.025	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorooctanesulfonamide	ND		0.23	0.038	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.23	0.027	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
L-Perfluorooctanesulfonic acid	**0.25**		0.23	0.050	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
L-Perfluorooctanoic acid	ND		0.23	0.061	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Total NMeFOSAA	ND		0.23	0.027	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluoropentanesulfonic acid	ND		0.23	0.043	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.23	0.055	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluoropentanoic acid	ND		0.23	0.047	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorotetradecanoic acid	ND		0.23	0.043	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Total NEtFOSAA	ND		0.23	0.055	ug/Kg	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluorotridecanoic acid	ND		0.23	0.024	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluoroundecanoic acid	ND		0.23	0.049	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.23	0.051	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
FBSA	ND		0.23	0.034	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1
FHxSA	ND		0.23	0.039	ng/g	☼	07/07/22 12:24	07/16/22 17:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
M2-8:2 FTS	*101*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291315WPS
Lab Sample ID: 240-169155-3

Date Collected: 06/29/22 13:15
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 77.7

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C3 HFPO-DA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C3 PFBS	*85*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C4 PFBA	*72*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C4 PFHpA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C5 PFPeA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
d3-NMeFOSAA	*86*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
d5-NEtFOSAA	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C8 FOSA	*79*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C2 PFHxA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C4 PFOA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C5 PFNA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C2 PFDA	*85*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C2 PFUnA	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C2 PFDoA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
18O2 PFHxS	*87*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*
13C4 PFOS	*80*		*25 - 150*	*07/07/22 12:24*	*07/16/22 17:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.3**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**77.7**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291235WPS

Date Collected: 06/29/22 12:35
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-4

Matrix: Solid
Percent Solids: 76.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.062	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.033	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.042	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Br-Perfluorooctanoic acid	ND		0.24	0.064	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Total PFOA	ND		0.24	0.064	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
DONA	ND		0.24	0.047	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
HFPODA	ND		0.24	0.050	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.058	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorobutanesulfonic acid	ND		0.24	0.046	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorobutanoic acid	ND		0.24	0.056	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorodecanesulfonic acid	ND		0.24	0.063	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorodecanoic acid	ND		0.24	0.058	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Total PFHxS	ND		0.24	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluoroheptanesulfonic acid	ND		0.24	0.059	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Br-Perfluorooctanesulfonic acid	**0.10**	**J**	0.24	0.052	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluoroheptanoic acid	ND		0.24	0.046	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Total PFOS	**0.60**		0.24	0.052	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
L-Perfluorohexanesulfonic acid	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorohexanoic acid	ND		0.24	0.037	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorononanesulfonic acid	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorononanoic acid	ND		0.24	0.027	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorooctanesulfonamide	ND		0.24	0.040	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
L-Perfluorooctanesulfonic acid	**0.50**		0.24	0.052	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
L-Perfluorooctanoic acid	ND		0.24	0.064	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Total NMeFOSAA	ND		0.24	0.028	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluoropentanesulfonic acid	ND		0.24	0.045	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.058	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluoropentanoic acid	ND		0.24	0.050	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorotetradecanoic acid	ND		0.24	0.045	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Total NEtFOSAA	ND		0.24	0.058	ug/Kg	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluoroundecanoic acid	ND		0.24	0.051	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.053	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
FBSA	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1
FHxSA	ND		0.24	0.041	ng/g	☼	07/07/22 12:24	07/16/22 18:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
M2-8:2 FTS	*108*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291235WPS
Lab Sample ID: 240-169155-4

Date Collected: 06/29/22 12:35
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 76.4

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C3 HFPO-DA	*93*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C3 PFBS	*94*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C4 PFBA	*94*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C4 PFHpA	*98*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C5 PFPeA	*99*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
d3-NMeFOSAA	*93*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C8 FOSA	*81*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C2 PFHxA	*96*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C4 PFOA	*96*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C5 PFNA	*99*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C2 PFDA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C2 PFUnA	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C2 PFDoA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
18O2 PFHxS	*94*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*
13C4 PFOS	*85*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.6**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**76.4**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291240WPS

Date Collected: 06/29/22 12:40
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-5

Matrix: Solid
Percent Solids: 63.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.29	0.045	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
4:2 Fluorotelomer sulfonic acid	ND		0.29	0.074	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
6:2 Fluorotelomer sulfonic acid	ND		0.29	0.039	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
8:2 Fluorotelomer sulfonic acid	ND		0.29	0.050	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
9Cl-PF3ONS	ND		0.29	0.050	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Br-Perfluorooctanoic acid	ND		0.29	0.076	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Total PFOA	**0.13**	**J**	0.29	0.076	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
DONA	ND		0.29	0.056	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
HFPODA	ND		0.29	0.059	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.29	0.069	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.29	0.033	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorobutanesulfonic acid	ND		0.29	0.055	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorobutanoic acid	**0.086**	**J**	0.29	0.066	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Br-Perfluorohexanesulfonic acid	ND		0.29	0.042	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorodecanesulfonic acid	ND		0.29	0.075	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorodecanoic acid	ND		0.29	0.069	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Total PFHxS	ND		0.29	0.042	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorododecanoic acid	ND		0.29	0.043	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluoroheptanesulfonic acid	ND		0.29	0.071	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Br-Perfluorooctanesulfonic acid	**0.97**		0.29	0.062	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluoroheptanoic acid	**0.071**	**J**	0.29	0.055	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Total PFOS	**11**		0.29	0.062	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
L-Perfluorohexanesulfonic acid	ND		0.29	0.042	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorohexanoic acid	**0.066**	**J**	0.29	0.045	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorononanesulfonic acid	ND		0.29	0.042	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorononanoic acid	**0.096**	**J**	0.29	0.032	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorooctanesulfonamide	ND		0.29	0.048	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.29	0.033	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
L-Perfluorooctanesulfonic acid	**10**		0.29	0.062	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
L-Perfluorooctanoic acid	**0.13**	**J**	0.29	0.076	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Total NMeFOSAA	ND		0.29	0.033	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluoropentanesulfonic acid	ND		0.29	0.053	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.29	0.069	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluoropentanoic acid	**0.062**	**J**	0.29	0.059	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorotetradecanoic acid	ND		0.29	0.053	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Total NEtFOSAA	ND		0.29	0.069	ug/Kg	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluorotridecanoic acid	ND		0.29	0.030	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluoroundecanoic acid	ND		0.29	0.061	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.29	0.063	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
FBSA	ND		0.29	0.042	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1
FHxSA	ND		0.29	0.049	ng/g	☼	07/07/22 12:24	07/16/22 18:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
M2-6:2 FTS	*88*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
M2-8:2 FTS	*83*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291240WPS
Lab Sample ID: 240-169155-5

Date Collected: 06/29/22 12:40
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 63.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C3 HFPO-DA	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C3 PFBS	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C4 PFBA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C4 PFHpA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C5 PFPeA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
d3-NMeFOSAA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
d5-NEtFOSAA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C8 FOSA	*63*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C2 PFHxA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C4 PFOA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C5 PFNA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C2 PFDA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C2 PFUnA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C2 PFDoA	*59*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
18O2 PFHxS	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*
13C4 PFOS	*63*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.5**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**63.5**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291245WPS

Date Collected: 06/29/22 12:45
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-6

Matrix: Solid
Percent Solids: 76.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.038	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.062	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.033	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.043	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
9Cl-PF3ONS	ND		0.24	0.043	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Br-Perfluorooctanoic acid	ND		0.24	0.065	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Total PFOA	ND		0.24	0.065	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
DONA	ND		0.24	0.048	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
HFPODA	ND		0.24	0.050	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.059	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorobutanesulfonic acid	ND		0.24	0.046	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorobutanoic acid	ND		0.24	0.056	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorodecanesulfonic acid	ND		0.24	0.064	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorodecanoic acid	ND		0.24	0.059	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Total PFHxS	ND		0.24	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorododecanoic acid	ND		0.24	0.037	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluoroheptanesulfonic acid	ND		0.24	0.060	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Br-Perfluorooctanesulfonic acid	**0.094**	**J**	0.24	0.053	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluoroheptanoic acid	ND		0.24	0.046	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Total PFOS	**0.35**		0.24	0.053	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
L-Perfluorohexanesulfonic acid	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorohexanoic acid	ND		0.24	0.038	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorononanesulfonic acid	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorononanoic acid	ND		0.24	0.027	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorooctanesulfonamide	ND		0.24	0.040	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
L-Perfluorooctanesulfonic acid	**0.25**		0.24	0.053	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
L-Perfluorooctanoic acid	ND		0.24	0.065	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Total NMeFOSAA	ND		0.24	0.028	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluoropentanesulfonic acid	ND		0.24	0.045	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.059	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluoropentanoic acid	ND		0.24	0.050	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorotetradecanoic acid	ND		0.24	0.045	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Total NEtFOSAA	ND		0.24	0.059	ug/Kg	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluorotridecanoic acid	ND		0.24	0.026	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluoroundecanoic acid	ND		0.24	0.051	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.054	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
FBSA	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1
FHxSA	ND		0.24	0.042	ng/g	☼	07/07/22 12:24	07/16/22 18:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
M2-6:2 FTS	*85*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
M2-8:2 FTS	*82*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291245WPS
Lab Sample ID: 240-169155-6

Date Collected: 06/29/22 12:45
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 76.9

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*50*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C3 HFPO-DA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C3 PFBS	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C4 PFBA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C4 PFHpA	*80*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C5 PFPeA	*79*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
d3-NMeFOSAA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
d5-NEtFOSAA	*58*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C8 FOSA	*54*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C2 PFHxA	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C4 PFOA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C5 PFNA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C2 PFDA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C2 PFUnA	*60*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C2 PFDoA	*42*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
18O2 PFHxS	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*
13C4 PFOS	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 18:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.1**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**76.9**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291330WPS

Date Collected: 06/29/22 13:30
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-7

Matrix: Solid
Percent Solids: 63.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.31	0.048	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
4:2 Fluorotelomer sulfonic acid	ND		0.31	0.079	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
6:2 Fluorotelomer sulfonic acid	ND		0.31	0.042	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
8:2 Fluorotelomer sulfonic acid	ND		0.31	0.054	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
9Cl-PF3ONS	ND		0.31	0.054	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Br-Perfluorooctanoic acid	ND		0.31	0.082	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Total PFOA	**0.23**	**J**	0.31	0.082	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
DONA	ND		0.31	0.061	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
HFPODA	ND		0.31	0.064	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.31	0.075	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.31	0.036	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorobutanesulfonic acid	**0.067**	**J**	0.31	0.059	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorobutanoic acid	**0.17**	**J**	0.31	0.071	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Br-Perfluorohexanesulfonic acid	**0.078**	**J**	0.31	0.045	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorodecanesulfonic acid	ND		0.31	0.081	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorodecanoic acid	ND		0.31	0.075	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Total PFHxS	**0.79**		0.31	0.045	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorododecanoic acid	ND		0.31	0.047	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluoroheptanesulfonic acid	ND		0.31	0.076	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Br-Perfluorooctanesulfonic acid	**0.98**		0.31	0.067	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluoroheptanoic acid	**0.27**	**J**	0.31	0.059	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Total PFOS	**12**		0.31	0.067	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
L-Perfluorohexanesulfonic acid	**0.71**	**I**	0.31	0.045	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorohexanoic acid	**0.58**		0.31	0.048	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorononanesulfonic acid	ND		0.31	0.045	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorononanoic acid	ND		0.31	0.034	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorooctanesulfonamide	ND		0.31	0.051	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.31	0.036	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
L-Perfluorooctanesulfonic acid	**11**		0.31	0.067	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
L-Perfluorooctanoic acid	**0.23**	**J**	0.31	0.082	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Total NMeFOSAA	ND		0.31	0.036	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluoropentanesulfonic acid	**0.078**	**J**	0.31	0.057	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.31	0.075	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluoropentanoic acid	**0.56**		0.31	0.064	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorotetradecanoic acid	ND		0.31	0.057	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Total NEtFOSAA	ND		0.31	0.075	ug/Kg	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluorotridecanoic acid	ND		0.31	0.033	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluoroundecanoic acid	ND		0.31	0.065	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.31	0.068	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
FBSA	ND		0.31	0.045	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1
FHxSA	**0.071**	**J**	0.31	0.053	ng/g	☼	07/07/22 12:24	07/16/22 19:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
M2-6:2 FTS	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
M2-8:2 FTS	*81*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291330WPS
Lab Sample ID: 240-169155-7

Date Collected: 06/29/22 13:30
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 63.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*62*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C3 HFPO-DA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C3 PFBS	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C4 PFBA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C4 PFHpA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C5 PFPeA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
d3-NMeFOSAA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
d5-NEtFOSAA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C8 FOSA	*57*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C2 PFHxA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C4 PFOA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C5 PFNA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C2 PFDA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C2 PFUnA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C2 PFDoA	*56*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
18O2 PFHxS	*63*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*
13C4 PFOS	*61*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.0**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**63.0**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291335WPS

Date Collected: 06/29/22 13:35
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-8

Matrix: Solid
Percent Solids: 56.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.35	0.054	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
4:2 Fluorotelomer sulfonic acid	ND		0.35	0.088	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
6:2 Fluorotelomer sulfonic acid	ND		0.35	0.047	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
8:2 Fluorotelomer sulfonic acid	ND		0.35	0.061	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
9Cl-PF3ONS	ND		0.35	0.061	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Br-Perfluorooctanoic acid	**0.15**	**J**	0.35	0.092	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Total PFOA	**2.5**		0.35	0.092	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
DONA	ND		0.35	0.068	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
HFPODA	ND		0.35	0.071	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.35	0.083	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.35	0.040	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorobutanesulfonic acid	**0.72**		0.35	0.066	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorobutanoic acid	**1.0**		0.35	0.080	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Br-Perfluorohexanesulfonic acid	**1.3**		0.35	0.050	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorodecanesulfonic acid	ND		0.35	0.090	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorodecanoic acid	ND		0.35	0.083	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Total PFHxS	**14**		0.35	0.050	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorododecanoic acid	ND		0.35	0.052	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluoroheptanesulfonic acid	**2.6**		0.35	0.085	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Br-Perfluorooctanesulfonic acid	**96**	**E**	0.35	0.075	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluoroheptanoic acid	**1.3**		0.35	0.066	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Total PFOS	**210**		0.35	0.075	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
L-Perfluorohexanesulfonic acid	**13**		0.35	0.050	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorohexanoic acid	**3.1**		0.35	0.054	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorononanesulfonic acid	ND		0.35	0.050	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorononanoic acid	**0.97**		0.35	0.038	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorooctanesulfonamide	ND		0.35	0.057	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.35	0.040	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
L-Perfluorooctanesulfonic acid	**110**	**E**	0.35	0.075	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
L-Perfluorooctanoic acid	**2.3**		0.35	0.092	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Total NMeFOSAA	ND		0.35	0.040	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluoropentanesulfonic acid	**0.98**		0.35	0.064	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.35	0.083	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluoropentanoic acid	**4.3**		0.35	0.071	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorotetradecanoic acid	ND		0.35	0.064	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Total NEtFOSAA	ND		0.35	0.083	ug/Kg	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluorotridecanoic acid	ND		0.35	0.036	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluoroundecanoic acid	ND		0.35	0.073	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.35	0.076	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
FBSA	**0.97**		0.35	0.050	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1
FHxSA	**3.1**		0.35	0.059	ng/g	☼	07/07/22 12:24	07/16/22 19:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*82*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
M2-6:2 FTS	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291335WPS
Lab Sample ID: 240-169155-8

Date Collected: 06/29/22 13:35
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 56.2

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*55*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C3 HFPO-DA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C3 PFBS	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C4 PFBA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C4 PFHpA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C5 PFPeA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
d3-NMeFOSAA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
d5-NEtFOSAA	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C8 FOSA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C2 PFHxA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C4 PFOA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C5 PFNA	*72*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C2 PFDA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C2 PFUnA	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C2 PFDoA	*58*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
18O2 PFHxS	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*
13C4 PFOS	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 19:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**43.8**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**56.2**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291340WPS

Date Collected: 06/29/22 13:40
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-9

Matrix: Solid
Percent Solids: 66.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.27	0.042	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
4:2 Fluorotelomer sulfonic acid	ND		0.27	0.069	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
6:2 Fluorotelomer sulfonic acid	ND		0.27	0.036	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
8:2 Fluorotelomer sulfonic acid	ND		0.27	0.047	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
9Cl-PF3ONS	ND		0.27	0.047	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Br-Perfluorooctanoic acid	ND		0.27	0.071	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Total PFOA	ND		0.27	0.071	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
DONA	ND		0.27	0.052	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
HFPODA	ND		0.27	0.055	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.064	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorobutanesulfonic acid	ND		0.27	0.051	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorobutanoic acid	ND		0.27	0.062	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Br-Perfluorohexanesulfonic acid	ND		0.27	0.039	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorodecanesulfonic acid	ND		0.27	0.070	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorodecanoic acid	ND		0.27	0.064	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Total PFHxS	ND		0.27	0.039	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorododecanoic acid	ND		0.27	0.040	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluoroheptanesulfonic acid	ND		0.27	0.066	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Br-Perfluorooctanesulfonic acid	**0.11**	**J**	0.27	0.058	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluoroheptanoic acid	ND		0.27	0.051	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Total PFOS	**0.35**		0.27	0.058	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
L-Perfluorohexanesulfonic acid	ND		0.27	0.039	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorohexanoic acid	ND		0.27	0.042	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorononanesulfonic acid	ND		0.27	0.039	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorononanoic acid	ND		0.27	0.030	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorooctanesulfonamide	ND		0.27	0.044	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.27	0.031	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
L-Perfluorooctanesulfonic acid	**0.24**	**J**	0.27	0.058	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
L-Perfluorooctanoic acid	ND		0.27	0.071	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Total NMeFOSAA	ND		0.27	0.031	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluoropentanesulfonic acid	ND		0.27	0.050	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.27	0.064	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluoropentanoic acid	ND		0.27	0.055	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorotetradecanoic acid	ND		0.27	0.050	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Total NEtFOSAA	ND		0.27	0.064	ug/Kg	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluorotridecanoic acid	ND		0.27	0.028	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluoroundecanoic acid	ND		0.27	0.056	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.27	0.059	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
FBSA	ND		0.27	0.039	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1
FHxSA	ND		0.27	0.046	ng/g	☼	07/07/22 12:24	07/16/22 20:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*112*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
M2-6:2 FTS	*99*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
M2-8:2 FTS	*87*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291340WPS
Lab Sample ID: 240-169155-9

Date Collected: 06/29/22 13:40
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 66.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*62*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C3 HFPO-DA	*96*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C3 PFBS	*87*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C4 PFBA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C4 PFHpA	*96*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C5 PFPeA	*98*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
d3-NMeFOSAA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C8 FOSA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C2 PFHxA	*95*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C4 PFOA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C5 PFNA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C2 PFDA	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C2 PFUnA	*72*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C2 PFDoA	*62*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
18O2 PFHxS	*88*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*
13C4 PFOS	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**33.5**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**66.5**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291245WPS-FD

Date Collected: 06/29/22 12:45
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-10

Matrix: Solid
Percent Solids: 76.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.24	0.037	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
4:2 Fluorotelomer sulfonic acid	ND		0.24	0.061	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
6:2 Fluorotelomer sulfonic acid	ND		0.24	0.032	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
8:2 Fluorotelomer sulfonic acid	ND		0.24	0.042	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
9Cl-PF3ONS	ND		0.24	0.042	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Br-Perfluorooctanoic acid	ND		0.24	0.063	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Total PFOA	ND		0.24	0.063	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
DONA	ND		0.24	0.047	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
HFPODA	ND		0.24	0.049	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorobutanesulfonic acid	ND		0.24	0.045	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorobutanoic acid	ND		0.24	0.055	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Br-Perfluorohexanesulfonic acid	ND		0.24	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorodecanesulfonic acid	ND		0.24	0.062	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorodecanoic acid	ND		0.24	0.057	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Total PFHxS	ND		0.24	0.035	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorododecanoic acid	ND		0.24	0.036	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluoroheptanesulfonic acid	ND		0.24	0.059	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Br-Perfluorooctanesulfonic acid	**0.095**	**J**	0.24	0.051	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluoroheptanoic acid	ND		0.24	0.045	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Total PFOS	**0.61**		0.24	0.051	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
L-Perfluorohexanesulfonic acid	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorohexanoic acid	ND		0.24	0.037	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorononanesulfonic acid	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorononanoic acid	ND		0.24	0.026	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorooctanesulfonamide	ND		0.24	0.039	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.24	0.028	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
L-Perfluorooctanesulfonic acid	**0.52**		0.24	0.051	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
L-Perfluorooctanoic acid	ND		0.24	0.063	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Total NMeFOSAA	ND		0.24	0.028	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluoropentanesulfonic acid	ND		0.24	0.044	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.24	0.057	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluoropentanoic acid	ND		0.24	0.049	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorotetradecanoic acid	ND		0.24	0.044	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Total NEtFOSAA	ND		0.24	0.057	ug/Kg	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluorotridecanoic acid	ND		0.24	0.025	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluoroundecanoic acid	ND		0.24	0.050	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.24	0.053	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
FBSA	ND		0.24	0.035	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1
FHxSA	ND		0.24	0.041	ng/g	☼	07/07/22 12:24	07/16/22 20:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
M2-6:2 FTS	*94*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291245WPS-FD
Lab Sample ID: 240-169155-10

Date Collected: 06/29/22 12:45
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 76.5

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C3 HFPO-DA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C3 PFBS	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C4 PFBA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C4 PFHpA	*94*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C5 PFPeA	*94*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
d3-NMeFOSAA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
d5-NEtFOSAA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C8 FOSA	*79*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C2 PFHxA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C4 PFOA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C5 PFNA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C2 PFDA	*86*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C2 PFUnA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C2 PFDoA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
18O2 PFHxS	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*
13C4 PFOS	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 20:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.5**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**76.5**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291410WPS

Date Collected: 06/29/22 14:10
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-11

Matrix: Solid
Percent Solids: 51.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.39	0.061	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
4:2 Fluorotelomer sulfonic acid	ND		0.39	0.10	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
6:2 Fluorotelomer sulfonic acid	ND		0.39	0.053	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
8:2 Fluorotelomer sulfonic acid	ND		0.39	0.068	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
9Cl-PF3ONS	ND		0.39	0.068	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Br-Perfluorooctanoic acid	ND		0.39	0.10	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Total PFOA	**0.28**	**J**	0.39	0.10	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
DONA	ND		0.39	0.076	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
HFPODA	ND		0.39	0.080	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.39	0.094	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.39	0.045	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorobutanesulfonic acid	ND		0.39	0.074	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorobutanoic acid	**0.45**		0.39	0.090	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Br-Perfluorohexanesulfonic acid	ND		0.39	0.057	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorodecanesulfonic acid	ND		0.39	0.10	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorodecanoic acid	ND		0.39	0.094	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Total PFHxS	ND		0.39	0.057	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorododecanoic acid	ND		0.39	0.059	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluoroheptanesulfonic acid	ND		0.39	0.096	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Br-Perfluorooctanesulfonic acid	**0.32**	**J**	0.39	0.084	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluoroheptanoic acid	**0.15**	**J**	0.39	0.074	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Total PFOS	**4.8**		0.39	0.084	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
L-Perfluorohexanesulfonic acid	ND		0.39	0.057	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorohexanoic acid	**0.10**	**J**	0.39	0.061	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorononanesulfonic acid	ND		0.39	0.057	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorononanoic acid	**0.19**	**J**	0.39	0.043	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorooctanesulfonamide	ND		0.39	0.064	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.39	0.045	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
L-Perfluorooctanesulfonic acid	**4.4**		0.39	0.084	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
L-Perfluorooctanoic acid	**0.28**	**J**	0.39	0.10	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Total NMeFOSAA	ND		0.39	0.045	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluoropentanesulfonic acid	ND		0.39	0.072	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.39	0.094	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluoropentanoic acid	**0.084**	**J**	0.39	0.080	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorotetradecanoic acid	ND		0.39	0.072	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Total NEtFOSAA	ND		0.39	0.094	ug/Kg	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluorotridecanoic acid	ND		0.39	0.041	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluoroundecanoic acid	ND		0.39	0.082	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.39	0.086	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
FBSA	ND		0.39	0.057	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1
FHxSA	ND		0.39	0.066	ng/g	☼	07/07/22 12:24	07/16/22 21:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
M2-6:2 FTS	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
M2-8:2 FTS	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291410WPS
Lab Sample ID: 240-169155-11

Date Collected: 06/29/22 14:10
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 51.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C3 HFPO-DA	*69*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C3 PFBS	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C4 PFBA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C4 PFHpA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C5 PFPeA	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
d3-NMeFOSAA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
d5-NEtFOSAA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C8 FOSA	*62*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C2 PFHxA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C4 PFOA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C5 PFNA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C2 PFDA	*70*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C2 PFUnA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C2 PFDoA	*60*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
18O2 PFHxS	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*
13C4 PFOS	*63*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**48.9**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**51.1**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291415WPS

Date Collected: 06/29/22 14:15
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-12

Matrix: Solid
Percent Solids: 49.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.36	0.056	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
4:2 Fluorotelomer sulfonic acid	ND		0.36	0.093	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
6:2 Fluorotelomer sulfonic acid	ND		0.36	0.049	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
8:2 Fluorotelomer sulfonic acid	ND		0.36	0.064	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
9Cl-PF3ONS	ND		0.36	0.064	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Br-Perfluorooctanoic acid	ND		0.36	0.096	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Total PFOA	**0.25**	**J**	0.36	0.096	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
DONA	ND		0.36	0.071	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
HFPODA	ND		0.36	0.075	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.36	0.087	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.36	0.042	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorobutanesulfonic acid	ND		0.36	0.069	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorobutanoic acid	**0.43**		0.36	0.084	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Br-Perfluorohexanesulfonic acid	ND		0.36	0.053	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorodecanesulfonic acid	ND		0.36	0.095	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorodecanoic acid	ND		0.36	0.087	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Total PFHxS	ND		0.36	0.053	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorododecanoic acid	ND		0.36	0.055	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluoroheptanesulfonic acid	ND		0.36	0.089	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Br-Perfluorooctanesulfonic acid	**0.43**		0.36	0.078	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluoroheptanoic acid	**0.19**	**J**	0.36	0.069	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Total PFOS	**6.3**		0.36	0.078	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
L-Perfluorohexanesulfonic acid	ND		0.36	0.053	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorohexanoic acid	**0.10**	**J**	0.36	0.056	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorononanesulfonic acid	ND		0.36	0.053	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorononanoic acid	**0.13**	**J**	0.36	0.040	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorooctanesulfonamide	ND		0.36	0.060	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.36	0.042	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
L-Perfluorooctanesulfonic acid	**5.9**		0.36	0.078	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
L-Perfluorooctanoic acid	**0.25**	**J**	0.36	0.096	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Total NMeFOSAA	ND		0.36	0.042	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluoropentanesulfonic acid	ND		0.36	0.067	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.36	0.087	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluoropentanoic acid	**0.10**	**J**	0.36	0.075	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorotetradecanoic acid	ND		0.36	0.067	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Total NEtFOSAA	ND		0.36	0.087	ug/Kg	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluorotridecanoic acid	ND		0.36	0.038	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluoroundecanoic acid	ND		0.36	0.076	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.36	0.080	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
FBSA	ND		0.36	0.053	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1
FHxSA	ND		0.36	0.062	ng/g	☼	07/07/22 12:24	07/16/22 21:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
M2-6:2 FTS	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
M2-8:2 FTS	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291415WPS
Lab Sample ID: 240-169155-12

Date Collected: 06/29/22 14:15
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 49.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*59*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C3 HFPO-DA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C3 PFBS	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C4 PFBA	*63*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C4 PFHpA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C5 PFPeA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
d3-NMeFOSAA	*64*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
d5-NEtFOSAA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C8 FOSA	*57*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C2 PFHxA	*64*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C4 PFOA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C5 PFNA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C2 PFDA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C2 PFUnA	*62*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C2 PFDoA	*54*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
18O2 PFHxS	*64*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*
13C4 PFOS	*60*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**50.2**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**49.8**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291420WPS

Date Collected: 06/29/22 14:20
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-13

Matrix: Solid
Percent Solids: 72.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.26	0.041	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		0.26	0.067	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		0.26	0.035	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		0.26	0.046	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
9Cl-PF3ONS	ND		0.26	0.046	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Br-Perfluorooctanoic acid	ND		0.26	0.069	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Total PFOA	ND		0.26	0.069	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
DONA	ND		0.26	0.051	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
HFPODA	ND		0.26	0.054	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.063	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.030	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorobutanesulfonic acid	ND		0.26	0.050	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorobutanoic acid	ND		0.26	0.060	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Br-Perfluorohexanesulfonic acid	ND		0.26	0.038	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorodecanesulfonic acid	ND		0.26	0.068	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorodecanoic acid	ND		0.26	0.063	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Total PFHxS	ND		0.26	0.038	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorododecanoic acid	ND		0.26	0.039	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluoroheptanesulfonic acid	ND		0.26	0.064	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Br-Perfluorooctanesulfonic acid	ND		0.26	0.056	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluoroheptanoic acid	ND		0.26	0.050	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Total PFOS	ND		0.26	0.056	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
L-Perfluorohexanesulfonic acid	ND		0.26	0.038	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorohexanoic acid	ND		0.26	0.041	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorononanesulfonic acid	ND		0.26	0.038	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorononanoic acid	ND		0.26	0.029	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorooctanesulfonamide	ND		0.26	0.043	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.26	0.030	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
L-Perfluorooctanesulfonic acid	ND		0.26	0.056	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
L-Perfluorooctanoic acid	ND		0.26	0.069	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Total NMeFOSAA	ND		0.26	0.030	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluoropentanesulfonic acid	ND		0.26	0.049	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.26	0.063	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluoropentanoic acid	ND		0.26	0.054	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorotetradecanoic acid	ND		0.26	0.049	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Total NEtFOSAA	ND		0.26	0.063	ug/Kg	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluorotridecanoic acid	ND		0.26	0.028	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluoroundecanoic acid	ND		0.26	0.055	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.26	0.058	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
FBSA	ND		0.26	0.038	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1
FHxSA	ND		0.26	0.045	ng/g	☼	07/07/22 12:24	07/16/22 21:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
M2-8:2 FTS	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291420WPS
Lab Sample ID: 240-169155-13

Date Collected: 06/29/22 14:20
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 72.8

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C3 PFBS	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C4 PFBA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C4 PFHpA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C5 PFPeA	*93*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
d3-NMeFOSAA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
d5-NEtFOSAA	*61*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C8 FOSA	*60*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C2 PFHxA	*93*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C4 PFOA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C5 PFNA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C2 PFDA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C2 PFUnA	*66*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C2 PFDoA	*50*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
18O2 PFHxS	*86*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*
13C4 PFOS	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 21:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.2**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**72.8**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291435WPS

Date Collected: 06/29/22 14:35
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-14

Matrix: Solid
Percent Solids: 55.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.33	0.051	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
4:2 Fluorotelomer sulfonic acid	ND		0.33	0.084	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
6:2 Fluorotelomer sulfonic acid	ND		0.33	0.045	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
8:2 Fluorotelomer sulfonic acid	ND		0.33	0.058	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
9Cl-PF3ONS	ND		0.33	0.058	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Br-Perfluorooctanoic acid	ND		0.33	0.088	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Total PFOA	ND		0.33	0.088	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
DONA	ND		0.33	0.064	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
HFPODA	ND		0.33	0.068	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.33	0.079	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.33	0.038	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorobutanesulfonic acid	ND		0.33	0.063	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorobutanoic acid	**0.16**	**J**	0.33	0.076	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Br-Perfluorohexanesulfonic acid	ND		0.33	0.048	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorodecanesulfonic acid	ND		0.33	0.086	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorodecanoic acid	ND		0.33	0.079	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Total PFHxS	ND		0.33	0.048	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorododecanoic acid	ND		0.33	0.050	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluoroheptanesulfonic acid	ND		0.33	0.081	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Br-Perfluorooctanesulfonic acid	**0.16**	**J**	0.33	0.071	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluoroheptanoic acid	ND		0.33	0.063	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Total PFOS	**1.4**		0.33	0.071	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
L-Perfluorohexanesulfonic acid	ND		0.33	0.048	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorohexanoic acid	ND		0.33	0.051	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorononanesulfonic acid	ND		0.33	0.048	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorononanoic acid	**0.042**	**J**	0.33	0.036	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorooctanesulfonamide	ND		0.33	0.055	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.33	0.038	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
L-Perfluorooctanesulfonic acid	**1.3**		0.33	0.071	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
L-Perfluorooctanoic acid	ND		0.33	0.088	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Total NMeFOSAA	ND		0.33	0.038	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluoropentanesulfonic acid	ND		0.33	0.061	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.33	0.079	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluoropentanoic acid	ND		0.33	0.068	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorotetradecanoic acid	ND		0.33	0.061	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Total NEtFOSAA	ND		0.33	0.079	ug/Kg	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluorotridecanoic acid	ND		0.33	0.035	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluoroundecanoic acid	ND		0.33	0.069	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.33	0.073	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
FBSA	ND		0.33	0.048	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1
FHxSA	ND		0.33	0.056	ng/g	☼	07/07/22 12:24	07/16/22 22:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
M2-6:2 FTS	*96*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291435WPS
Lab Sample ID: 240-169155-14

Date Collected: 06/29/22 14:35
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 55.1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C3 HFPO-DA	*87*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C3 PFBS	*81*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C4 PFBA	*87*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C4 PFHpA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C5 PFPeA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
d3-NMeFOSAA	*81*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
d5-NEtFOSAA	*83*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C8 FOSA	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C2 PFHxA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C4 PFOA	*88*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C5 PFNA	*89*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C2 PFDA	*83*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C2 PFUnA	*84*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C2 PFDoA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
18O2 PFHxS	*81*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*
13C4 PFOS	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**44.9**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**55.1**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291440WPS

Date Collected: 06/29/22 14:40
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-15

Matrix: Solid
Percent Solids: 52.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.36	0.055	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
4:2 Fluorotelomer sulfonic acid	ND		0.36	0.091	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
6:2 Fluorotelomer sulfonic acid	ND		0.36	0.048	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
8:2 Fluorotelomer sulfonic acid	ND		0.36	0.062	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
9Cl-PF3ONS	ND		0.36	0.062	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Br-Perfluorooctanoic acid	ND		0.36	0.094	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Total PFOA	**0.35**	**J**	0.36	0.094	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
DONA	ND		0.36	0.069	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
HFPODA	ND		0.36	0.073	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.36	0.085	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.36	0.041	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorobutanesulfonic acid	ND		0.36	0.068	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorobutanoic acid	**0.47**		0.36	0.082	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Br-Perfluorohexanesulfonic acid	ND		0.36	0.052	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorodecanesulfonic acid	ND		0.36	0.093	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorodecanoic acid	ND		0.36	0.085	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Total PFHxS	ND		0.36	0.052	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorododecanoic acid	ND		0.36	0.053	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluoroheptanesulfonic acid	ND		0.36	0.087	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Br-Perfluorooctanesulfonic acid	**0.35**	**J**	0.36	0.076	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluoroheptanoic acid	**0.14**	**J**	0.36	0.068	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Total PFOS	**6.5**		0.36	0.076	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
L-Perfluorohexanesulfonic acid	ND		0.36	0.052	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorohexanoic acid	**0.098**	**J**	0.36	0.055	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorononanesulfonic acid	ND		0.36	0.052	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorononanoic acid	**0.22**	**J**	0.36	0.039	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorooctanesulfonamide	ND		0.36	0.059	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.36	0.041	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
L-Perfluorooctanesulfonic acid	**6.2**		0.36	0.076	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
L-Perfluorooctanoic acid	**0.35**	**J**	0.36	0.094	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Total NMeFOSAA	ND		0.36	0.041	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluoropentanesulfonic acid	ND		0.36	0.066	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.36	0.085	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluoropentanoic acid	**0.13**	**J**	0.36	0.073	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorotetradecanoic acid	ND		0.36	0.066	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Total NEtFOSAA	ND		0.36	0.085	ug/Kg	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluorotridecanoic acid	ND		0.36	0.037	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluoroundecanoic acid	ND		0.36	0.075	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.36	0.078	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
FBSA	ND		0.36	0.052	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1
FHxSA	ND		0.36	0.060	ng/g	☼	07/07/22 12:24	07/16/22 22:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
M2-6:2 FTS	*82*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
M2-8:2 FTS	*83*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291440WPS
Lab Sample ID: 240-169155-15

Date Collected: 06/29/22 14:40
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 52.6

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*65*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C3 HFPO-DA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C3 PFBS	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C4 PFBA	*73*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C4 PFHpA	*80*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C5 PFPeA	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
d3-NMeFOSAA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
d5-NEtFOSAA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C8 FOSA	*63*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C2 PFHxA	*74*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C4 PFOA	*78*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C5 PFNA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C2 PFDA	*71*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C2 PFUnA	*72*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C2 PFDoA	*61*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
18O2 PFHxS	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*
13C4 PFOS	*68*		*25 - 150*	*07/07/22 12:24*	*07/16/22 22:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**47.4**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**52.6**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: SD2206291445WPS

Date Collected: 06/29/22 14:45
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-16

Matrix: Solid
Percent Solids: 68.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.29	0.045	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
4:2 Fluorotelomer sulfonic acid	ND		0.29	0.074	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
6:2 Fluorotelomer sulfonic acid	ND		0.29	0.039	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
8:2 Fluorotelomer sulfonic acid	ND		0.29	0.051	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
9Cl-PF3ONS	ND		0.29	0.051	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Br-Perfluorooctanoic acid	ND		0.29	0.077	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Total PFOA	ND		0.29	0.077	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
DONA	ND		0.29	0.056	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
HFPODA	ND		0.29	0.059	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.29	0.069	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.29	0.033	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorobutanesulfonic acid	ND		0.29	0.055	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorobutanoic acid	ND		0.29	0.066	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Br-Perfluorohexanesulfonic acid	ND		0.29	0.042	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorodecanesulfonic acid	ND		0.29	0.075	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorodecanoic acid	ND		0.29	0.069	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Total PFHxS	ND		0.29	0.042	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorododecanoic acid	ND		0.29	0.043	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluoroheptanesulfonic acid	ND		0.29	0.071	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Br-Perfluorooctanesulfonic acid	ND		0.29	0.062	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluoroheptanoic acid	ND		0.29	0.055	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Total PFOS	**0.26**	**J**	0.29	0.062	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
L-Perfluorohexanesulfonic acid	ND		0.29	0.042	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorohexanoic acid	ND		0.29	0.045	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorononanesulfonic acid	ND		0.29	0.042	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorononanoic acid	ND		0.29	0.032	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorooctanesulfonamide	ND		0.29	0.048	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.29	0.033	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
L-Perfluorooctanesulfonic acid	**0.26**	**J I**	0.29	0.062	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
L-Perfluorooctanoic acid	ND		0.29	0.077	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Total NMeFOSAA	ND		0.29	0.033	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluoropentanesulfonic acid	ND		0.29	0.053	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		0.29	0.069	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluoropentanoic acid	ND		0.29	0.059	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorotetradecanoic acid	ND		0.29	0.053	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Total NEtFOSAA	ND		0.29	0.069	ug/Kg	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluorotridecanoic acid	ND		0.29	0.030	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluoroundecanoic acid	ND		0.29	0.061	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.29	0.064	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
FBSA	ND		0.29	0.042	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1
FHxSA	ND		0.29	0.049	ng/g	☼	07/07/22 12:24	07/16/22 23:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
M2-6:2 FTS	*100*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*

Client Sample Results

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291445WPS
Lab Sample ID: 240-169155-16

Date Collected: 06/29/22 14:45
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 68.0

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C3 PFBS	*88*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C4 PFBA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C4 PFHpA	*91*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C5 PFPeA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
d3-NMeFOSAA	*80*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
d5-NEtFOSAA	*76*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C8 FOSA	*67*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C2 PFHxA	*90*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C4 PFOA	*92*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C5 PFNA	*88*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C2 PFDA	*83*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C2 PFUnA	*79*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C2 PFDoA	*58*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
18O2 PFHxS	*86*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*
13C4 PFOS	*77*		*25 - 150*	*07/07/22 12:24*	*07/16/22 23:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**32.0**		0.1	0.1	%			07/05/22 14:10	1
Percent Solids	**68.0**		0.1	0.1	%			07/05/22 14:10	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: EB2206291350WPS

Date Collected: 06/29/22 13:50
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-17

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.5	2.2	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluoropentanoic acid	ND		1.8	0.44	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorohexanoic acid	ND		1.8	0.52	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluoroheptanoic acid	ND		1.8	0.23	ng/L		07/11/22 12:09	07/14/22 23:31	1
L-Perfluorooctanoic acid	ND		1.8	0.77	ng/L		07/11/22 12:09	07/14/22 23:31	1
Br-Perfluorooctanoic acid	ND		1.8	0.77	ng/L		07/11/22 12:09	07/14/22 23:31	1
Total PFOA	ND		1.8	0.77	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluoroundecanoic acid	ND		1.8	0.99	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorododecanoic acid	ND		1.8	0.50	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorotetradecanoic acid	ND		1.8	0.66	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluoropentanesulfonic acid	ND		1.8	0.27	ng/L		07/11/22 12:09	07/14/22 23:31	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		07/11/22 12:09	07/14/22 23:31	1
Total PFHxS	ND		1.8	0.52	ng/L		07/11/22 12:09	07/14/22 23:31	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		07/11/22 12:09	07/14/22 23:31	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.49	ng/L		07/11/22 12:09	07/14/22 23:31	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.49	ng/L		07/11/22 12:09	07/14/22 23:31	1
Total PFOS	ND		1.8	0.49	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluorooctanesulfonamide	ND		1.8	0.89	ng/L		07/11/22 12:09	07/14/22 23:31	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		07/11/22 12:09	07/14/22 23:31	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		07/11/22 12:09	07/14/22 23:31	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		07/11/22 12:09	07/14/22 23:31	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		07/11/22 12:09	07/14/22 23:31	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		07/11/22 12:09	07/14/22 23:31	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		07/11/22 12:09	07/14/22 23:31	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.22	ng/L		07/11/22 12:09	07/14/22 23:31	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.3	ng/L		07/11/22 12:09	07/14/22 23:31	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.42	ng/L		07/11/22 12:09	07/14/22 23:31	1
DONA	ND		1.8	0.36	ng/L		07/11/22 12:09	07/14/22 23:31	1
HFPODA	ND		3.6	1.4	ng/L		07/11/22 12:09	07/14/22 23:31	1
9Cl-PF3ONS	ND		1.8	0.22	ng/L		07/11/22 12:09	07/14/22 23:31	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		07/11/22 12:09	07/14/22 23:31	1
FHxSA	ND		1.8	0.20	ng/L		07/11/22 12:09	07/14/22 23:31	1
FBSA	ND		1.8	0.31	ng/L		07/11/22 12:09	07/14/22 23:31	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.41	ng/L		07/11/22 12:09	07/14/22 23:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*112*		*25 - 150*	*07/11/22 12:09*	*07/14/22 23:31*	*1*
13C5 PFPeA	*112*		*25 - 150*	*07/11/22 12:09*	*07/14/22 23:31*	*1*
13C2 PFHxA	*111*		*25 - 150*	*07/11/22 12:09*	*07/14/22 23:31*	*1*

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: EB2206291350WPS
Lab Sample ID: 240-169155-17
Date Collected: 06/29/22 13:50
Matrix: Water
Date Received: 07/01/22 09:45

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	114		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C4 PFOA	111		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C5 PFNA	113		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C2 PFDA	117		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C2 PFUnA	125		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C2 PFDoA	114		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C2 PFTeDA	105		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C3 PFBS	110		25 - 150	07/11/22 12:09	07/14/22 23:31	1
18O2 PFHxS	109		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C4 PFOS	105		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C8 FOSA	106		25 - 150	07/11/22 12:09	07/14/22 23:31	1
d3-NMeFOSAA	119		25 - 150	07/11/22 12:09	07/14/22 23:31	1
d5-NEtFOSAA	121		25 - 150	07/11/22 12:09	07/14/22 23:31	1
M2-4:2 FTS	131		25 - 150	07/11/22 12:09	07/14/22 23:31	1
M2-6:2 FTS	125		25 - 150	07/11/22 12:09	07/14/22 23:31	1
M2-8:2 FTS	136		25 - 150	07/11/22 12:09	07/14/22 23:31	1
13C3 HFPO-DA	113		25 - 150	07/11/22 12:09	07/14/22 23:31	1

Client Sample Results

Client: AECOM
Project/Site: Former McDonalds Country Store, Ocscoda,

Job ID: 240-169155-1

Client Sample ID: FB2206291355WPS

Date Collected: 06/29/22 13:55
Date Received: 07/01/22 09:45

Lab Sample ID: 240-169155-18

Matrix: Water

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		4.5	2.1	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluoropentanoic acid	ND		1.8	0.44	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorohexanoic acid	ND		1.8	0.52	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluoroheptanoic acid	ND		1.8	0.22	ng/L		07/11/22 12:09	07/14/22 23:53	1
L-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		07/11/22 12:09	07/14/22 23:53	1
Br-Perfluorooctanoic acid	ND		1.8	0.76	ng/L		07/11/22 12:09	07/14/22 23:53	1
Total PFOA	ND		1.8	0.76	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorononanoic acid	ND		1.8	0.24	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorodecanoic acid	ND		1.8	0.28	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluoroundecanoic acid	ND		1.8	0.98	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorododecanoic acid	ND		1.8	0.49	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorotridecanoic acid	ND		1.8	1.2	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorotetradecanoic acid	ND		1.8	0.65	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorobutanesulfonic acid	ND		1.8	0.18	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluoropentanesulfonic acid	ND		1.8	0.27	ng/L		07/11/22 12:09	07/14/22 23:53	1
Br-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		07/11/22 12:09	07/14/22 23:53	1
Total PFHxS	ND		1.8	0.51	ng/L		07/11/22 12:09	07/14/22 23:53	1
L-Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluoroheptanesulfonic acid	ND		1.8	0.17	ng/L		07/11/22 12:09	07/14/22 23:53	1
L-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		07/11/22 12:09	07/14/22 23:53	1
Br-Perfluorooctanesulfonic acid	ND		1.8	0.48	ng/L		07/11/22 12:09	07/14/22 23:53	1
Total PFOS	ND		1.8	0.48	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorononanesulfonic acid	ND		1.8	0.33	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorodecanesulfonic acid	ND		1.8	0.29	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluorooctanesulfonamide	ND		1.8	0.87	ng/L		07/11/22 12:09	07/14/22 23:53	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		07/11/22 12:09	07/14/22 23:53	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		4.5	1.1	ng/L		07/11/22 12:09	07/14/22 23:53	1
Total NMeFOSAA	ND		4.5	1.1	ng/L		07/11/22 12:09	07/14/22 23:53	1
L-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		07/11/22 12:09	07/14/22 23:53	1
Br-N-ethylperfluorooctanesulfonamido acetic acid	ND		4.5	1.2	ng/L		07/11/22 12:09	07/14/22 23:53	1
Total NEtFOSAA	ND		4.5	1.2	ng/L		07/11/22 12:09	07/14/22 23:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.21	ng/L		07/11/22 12:09	07/14/22 23:53	1
6:2 Fluorotelomer sulfonic acid	ND		4.5	2.2	ng/L		07/11/22 12:09	07/14/22 23:53	1
8:2 Fluorotelomer sulfonic acid	ND		1.8	0.41	ng/L		07/11/22 12:09	07/14/22 23:53	1
DONA	ND		1.8	0.36	ng/L		07/11/22 12:09	07/14/22 23:53	1
HFPODA	ND		3.6	1.3	ng/L		07/11/22 12:09	07/14/22 23:53	1
9Cl-PF3ONS	ND		1.8	0.21	ng/L		07/11/22 12:09	07/14/22 23:53	1
11Cl-PF3OUdS	ND	*+	1.8	0.29	ng/L		07/11/22 12:09	07/14/22 23:53	1
FHxSA	ND		1.8	0.20	ng/L		07/11/22 12:09	07/14/22 23:53	1
FBSA	ND		1.8	0.31	ng/L		07/11/22 12:09	07/14/22 23:53	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		1.8	0.40	ng/L		07/11/22 12:09	07/14/22 23:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*105*		*25 - 150*	*07/11/22 12:09*	*07/14/22 23:53*	*1*
13C5 PFPeA	*107*		*25 - 150*	*07/11/22 12:09*	*07/14/22 23:53*	*1*
13C2 PFHxA	*108*		*25 - 150*	*07/11/22 12:09*	*07/14/22 23:53*	*1*

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: FB2206291355WPS
Lab Sample ID: 240-169155-18
Date Collected: 06/29/22 13:55
Matrix: Water
Date Received: 07/01/22 09:45

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	107		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C4 PFOA	108		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C5 PFNA	110		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C2 PFDA	110		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C2 PFUnA	123		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C2 PFDoA	106		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C2 PFTeDA	101		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C3 PFBS	104		25 - 150	07/11/22 12:09	07/14/22 23:53	1
18O2 PFHxS	102		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C4 PFOS	98		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C8 FOSA	97		25 - 150	07/11/22 12:09	07/14/22 23:53	1
d3-NMeFOSAA	107		25 - 150	07/11/22 12:09	07/14/22 23:53	1
d5-NEtFOSAA	108		25 - 150	07/11/22 12:09	07/14/22 23:53	1
M2-4:2 FTS	122		25 - 150	07/11/22 12:09	07/14/22 23:53	1
M2-6:2 FTS	125		25 - 150	07/11/22 12:09	07/14/22 23:53	1
M2-8:2 FTS	123		25 - 150	07/11/22 12:09	07/14/22 23:53	1
13C3 HFPO-DA	108		25 - 150	07/11/22 12:09	07/14/22 23:53	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS

Lab Sample ID: MB 320-601376/1-A
Matrix: Solid
Analysis Batch: 603459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorooctanoic acid	ND		0.20	0.053	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
Total PFOA	ND		0.20	0.053	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
Perfluorobutanoic acid	ND		0.20	0.046	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorobutanesulfonic acid	ND		0.20	0.038	ng/g		07/07/22 12:24	07/16/22 16:07	1
Br-Perfluorohexanesulfonic acid	ND		0.20	0.029	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
Perfluorodecanoic acid	ND		0.20	0.048	ng/g		07/07/22 12:24	07/16/22 16:07	1
Total PFHxS	ND		0.20	0.029	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
Perfluorododecanoic acid	ND		0.20	0.030	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluoroheptanesulfonic acid	ND		0.20	0.049	ng/g		07/07/22 12:24	07/16/22 16:07	1
Br-Perfluorooctanesulfonic acid	ND		0.20	0.043	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
Perfluoroheptanoic acid	ND		0.20	0.038	ng/g		07/07/22 12:24	07/16/22 16:07	1
Total PFOS	ND		0.20	0.043	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
L-Perfluorohexanesulfonic acid	ND		0.20	0.029	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorodecanesulfonic acid	ND		0.20	0.052	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorohexanoic acid	ND		0.20	0.031	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorononanesulfonic acid	ND		0.20	0.029	ng/g		07/07/22 12:24	07/16/22 16:07	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorononanoic acid	ND		0.20	0.022	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorooctanesulfonamide	ND		0.20	0.033	ng/g		07/07/22 12:24	07/16/22 16:07	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.023	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.048	ng/g		07/07/22 12:24	07/16/22 16:07	1
L-Perfluorooctanesulfonic acid	ND		0.20	0.043	ng/g		07/07/22 12:24	07/16/22 16:07	1
L-Perfluorooctanoic acid	ND		0.20	0.053	ng/g		07/07/22 12:24	07/16/22 16:07	1
Total NMeFOSAA	ND		0.20	0.023	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
4:2 Fluorotelomer sulfonic acid	ND		0.20	0.051	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluoropentanesulfonic acid	ND		0.20	0.037	ng/g		07/07/22 12:24	07/16/22 16:07	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.027	ng/g		07/07/22 12:24	07/16/22 16:07	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		0.20	0.048	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.035	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluoropentanoic acid	ND		0.20	0.041	ng/g		07/07/22 12:24	07/16/22 16:07	1
DONA	ND		0.20	0.039	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorotetradecanoic acid	ND		0.20	0.037	ng/g		07/07/22 12:24	07/16/22 16:07	1
HFPODA	ND		0.20	0.041	ng/g		07/07/22 12:24	07/16/22 16:07	1
Total NEtFOSAA	ND		0.20	0.048	ug/Kg		07/07/22 12:24	07/16/22 16:07	1
9Cl-PF3ONS	ND		0.20	0.035	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g		07/07/22 12:24	07/16/22 16:07	1
11Cl-PF3OUdS	ND		0.20	0.031	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluoroundecanoic acid	ND		0.20	0.042	ng/g		07/07/22 12:24	07/16/22 16:07	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.20	0.044	ng/g		07/07/22 12:24	07/16/22 16:07	1
FBSA	ND		0.20	0.029	ng/g		07/07/22 12:24	07/16/22 16:07	1
FHxSA	ND		0.20	0.034	ng/g		07/07/22 12:24	07/16/22 16:07	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:07*	*1*
13C4 PFHpA	*82*		*25 - 150*	*07/07/22 12:24*	*07/16/22 16:07*	*1*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-601376/1-A
Matrix: Solid
Analysis Batch: 603459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601376

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	81		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C2 PFTeDA	64		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C2 PFHxA	78		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C3 PFBS	76		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C4 PFOA	79		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C5 PFNA	77		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C2 PFDA	73		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C8 FOSA	62		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C2 PFUnA	73		25 - 150	07/07/22 12:24	07/16/22 16:07	1
d3-NMeFOSAA	68		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C2 PFDoA	63		25 - 150	07/07/22 12:24	07/16/22 16:07	1
d5-NEtFOSAA	66		25 - 150	07/07/22 12:24	07/16/22 16:07	1
18O2 PFHxS	74		25 - 150	07/07/22 12:24	07/16/22 16:07	1
M2-4:2 FTS	92		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C4 PFOS	69		25 - 150	07/07/22 12:24	07/16/22 16:07	1
M2-6:2 FTS	85		25 - 150	07/07/22 12:24	07/16/22 16:07	1
M2-8:2 FTS	84		25 - 150	07/07/22 12:24	07/16/22 16:07	1
13C3 HFPO-DA	80		25 - 150	07/07/22 12:24	07/16/22 16:07	1

Lab Sample ID: LCS 320-601376/2-A
Matrix: Solid
Analysis Batch: 603459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total PFOA	2.00	2.05		ug/Kg		102	72 - 132
Perfluorobutanoic acid	2.00	2.04		ng/g		102	76 - 136
Perfluorobutanesulfonic acid	1.78	1.93		ng/g		109	69 - 129
Perfluorodecanoic acid	2.00	2.12		ng/g		106	72 - 132
Total PFHxS	1.82	1.84		ug/Kg		101	62 - 122
Perfluorododecanoic acid	2.00	2.25		ng/g		113	71 - 131
Perfluoroheptanesulfonic acid	1.91	2.08		ng/g		109	76 - 136
Perfluoroheptanoic acid	2.00	2.05		ng/g		102	71 - 131
Total PFOS	1.86	2.03		ug/Kg		109	68 - 141
Perfluorodecanesulfonic acid	1.93	1.85		ng/g		96	71 - 131
Perfluorohexanoic acid	2.00	1.99		ng/g		100	71 - 131
Perfluorononanesulfonic acid	1.92	2.03		ng/g		105	72 - 132
Perfluorononanoic acid	2.00	1.99		ng/g		100	73 - 133
Perfluorooctanesulfonamide	2.00	2.12		ng/g		106	77 - 137
Total NMeFOSAA	2.00	2.18		ug/Kg		109	72 - 132
4:2 Fluorotelomer sulfonic acid	1.88	1.97		ng/g		105	68 - 143
Perfluoropentanesulfonic acid	1.88	1.94		ng/g		104	66 - 126
6:2 Fluorotelomer sulfonic acid	1.90	2.19		ng/g		115	73 - 139
8:2 Fluorotelomer sulfonic acid	1.92	1.94		ng/g		101	75 - 135
Perfluoropentanoic acid	2.00	2.06		ng/g		103	69 - 129
DONA	1.89	2.21		ng/g		117	79 - 139
Perfluorotetradecanoic acid	2.00	2.18		ng/g		109	67 - 127
HFPODA	2.00	2.07		ng/g		104	53 - 158
Total NEtFOSAA	2.00	2.12		ug/Kg		106	72 - 132
9Cl-PF3ONS	1.87	2.07		ng/g		111	74 - 134

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-601376/2-A
Matrix: Solid
Analysis Batch: 603459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotridecanoic acid	2.00	2.14		ng/g		107	71 - 131
11Cl-PF3OUdS	1.89	1.85		ng/g		98	66 - 136
Perfluoroundecanoic acid	2.00	2.03		ng/g		101	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	1.85	2.01		ng/g		109	50 - 150
FBSA	2.00	2.55		ng/g		127	70 - 130
FHxSA	2.00	2.46		ng/g		123	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*89*		*25 - 150*
13C4 PFHpA	*90*		*25 - 150*
13C5 PFPeA	*89*		*25 - 150*
13C2 PFTeDA	*70*		*25 - 150*
13C2 PFHxA	*91*		*25 - 150*
13C3 PFBS	*88*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C8 FOSA	*73*		*25 - 150*
13C2 PFUnA	*79*		*25 - 150*
d3-NMeFOSAA	*81*		*25 - 150*
13C2 PFDoA	*62*		*25 - 150*
d5-NEtFOSAA	*72*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
M2-4:2 FTS	*100*		*25 - 150*
13C4 PFOS	*82*		*25 - 150*
M2-6:2 FTS	*95*		*25 - 150*
M2-8:2 FTS	*99*		*25 - 150*
13C3 HFPO-DA	*88*		*25 - 150*

Lab Sample ID: 240-169155-16 MS
Matrix: Solid
Analysis Batch: 603459

Client Sample ID: SD2206291445WPS
Prep Type: Total/NA
Prep Batch: 601376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total PFOA	ND		2.90	2.75		ug/Kg	☼	95	72 - 132
Perfluorobutanoic acid	ND		2.90	2.87		ng/g	☼	99	76 - 136
Perfluorobutanesulfonic acid	ND		2.58	2.63		ng/g	☼	102	69 - 129
Perfluorodecanoic acid	ND		2.90	2.98		ng/g	☼	103	72 - 132
Total PFHxS	ND		2.65	2.47		ug/Kg	☼	93	62 - 122
Perfluorododecanoic acid	ND		2.90	2.94		ng/g	☼	101	71 - 131
Perfluoroheptanesulfonic acid	ND		2.77	2.98		ng/g	☼	108	76 - 136
Perfluoroheptanoic acid	ND		2.90	2.96		ng/g	☼	102	71 - 131
Total PFOS	0.26	J	2.70	3.07		ug/Kg	☼	104	68 - 141
Perfluorodecanesulfonic acid	ND		2.80	2.53		ng/g	☼	91	71 - 131
Perfluorohexanoic acid	ND		2.90	2.76		ng/g	☼	95	71 - 131
Perfluorononanesulfonic acid	ND		2.79	2.88		ng/g	☼	103	72 - 132
Perfluorononanoic acid	ND		2.90	2.95		ng/g	☼	102	73 - 133
Perfluorooctanesulfonamide	ND		2.90	2.83		ng/g	☼	97	77 - 137

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-169155-16 MS
Client Sample ID: SD2206291445WPS
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 603459
Prep Batch: 601376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total NMeFOSAA	ND		2.90	2.99		ug/Kg	☼	103	72 - 132
4:2 Fluorotelomer sulfonic acid	ND		2.72	2.51		ng/g	☼	92	68 - 143
Perfluoropentanesulfonic acid	ND		2.72	2.75		ng/g	☼	101	66 - 126
6:2 Fluorotelomer sulfonic acid	ND		2.76	2.90		ng/g	☼	105	73 - 139
8:2 Fluorotelomer sulfonic acid	ND		2.79	2.84		ng/g	☼	102	75 - 135
Perfluoropentanoic acid	ND		2.90	2.93		ng/g	☼	101	69 - 129
DONA	ND		2.74	3.06		ng/g	☼	112	79 - 139
Perfluorotetradecanoic acid	ND		2.90	2.89		ng/g	☼	100	67 - 127
HFPODA	ND		2.90	2.79		ng/g	☼	96	53 - 158
Total NEtFOSAA	ND		2.90	3.10		ug/Kg	☼	107	72 - 132
9Cl-PF3ONS	ND		2.71	2.96		ng/g	☼	109	74 - 134
Perfluorotridecanoic acid	ND		2.90	2.78		ng/g	☼	96	71 - 131
11Cl-PF3OUdS	ND		2.74	2.47		ng/g	☼	90	66 - 136
Perfluoroundecanoic acid	ND		2.90	2.69		ng/g	☼	93	66 - 126
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.68	2.75		ng/g	☼	102	50 - 150
FBSA	ND		2.90	3.22		ng/g	☼	111	50 - 150
FHxSA	ND		2.90	3.06		ng/g	☼	105	50 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*89*		*25 - 150*
13C4 PFHpA	*88*		*25 - 150*
13C5 PFPeA	*88*		*25 - 150*
13C2 PFTeDA	*71*		*25 - 150*
13C2 PFHxA	*85*		*25 - 150*
13C3 PFBS	*84*		*25 - 150*
13C4 PFOA	*86*		*25 - 150*
13C5 PFNA	*85*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C8 FOSA	*80*		*25 - 150*
13C2 PFUnA	*84*		*25 - 150*
d3-NMeFOSAA	*90*		*25 - 150*
13C2 PFDoA	*72*		*25 - 150*
d5-NEtFOSAA	*83*		*25 - 150*
18O2 PFHxS	*86*		*25 - 150*
M2-4:2 FTS	*107*		*25 - 150*
13C4 PFOS	*78*		*25 - 150*
M2-6:2 FTS	*94*		*25 - 150*
M2-8:2 FTS	*99*		*25 - 150*
13C3 HFPO-DA	*87*		*25 - 150*

Lab Sample ID: 240-169155-16 MSD
Client Sample ID: SD2206291445WPS
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 603459
Prep Batch: 601376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total PFOA	ND		2.83	2.78		ug/Kg	☼	98	72 - 132	1	30
Perfluorobutanoic acid	ND		2.83	2.76		ng/g	☼	97	76 - 136	4	30
Perfluorobutanesulfonic acid	ND		2.51	2.40		ng/g	☼	96	69 - 129	9	30

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-169155-16 MSD
Client Sample ID: SD2206291445WPS
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 603459
Prep Batch: 601376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorodecanoic acid	ND		2.83	2.94		ng/g	☼	104	72 - 132	1	30
Total PFHxS	ND		2.58	2.52		ug/Kg	☼	98	62 - 122	2	30
Perfluorododecanoic acid	ND		2.83	2.89		ng/g	☼	102	71 - 131	2	30
Perfluoroheptanesulfonic acid	ND		2.70	2.86		ng/g	☼	106	76 - 136	4	30
Perfluoroheptanoic acid	ND		2.83	2.83		ng/g	☼	100	71 - 131	4	30
Total PFOS	0.26	J	2.63	3.04		ug/Kg	☼	106	68 - 141	1	30
Perfluorodecanesulfonic acid	ND		2.73	2.47		ng/g	☼	91	71 - 131	3	30
Perfluorohexanoic acid	ND		2.83	2.67		ng/g	☼	94	71 - 131	3	30
Perfluorononanesulfonic acid	ND		2.72	2.74		ng/g	☼	101	72 - 132	5	30
Perfluorononanoic acid	ND		2.83	2.78		ng/g	☼	98	73 - 133	6	30
Perfluorooctanesulfonamide	ND		2.83	2.83		ng/g	☼	100	77 - 137	0	30
Total NMeFOSAA	ND		2.83	2.95		ug/Kg	☼	104	72 - 132	1	30
4:2 Fluorotelomer sulfonic acid	ND		2.65	2.78		ng/g	☼	105	68 - 143	10	30
Perfluoropentanesulfonic acid	ND		2.65	2.63		ng/g	☼	99	66 - 126	4	30
6:2 Fluorotelomer sulfonic acid	ND		2.69	2.87		ng/g	☼	107	73 - 139	1	30
8:2 Fluorotelomer sulfonic acid	ND		2.72	2.74		ng/g	☼	101	75 - 135	3	30
Perfluoropentanoic acid	ND		2.83	2.85		ng/g	☼	101	69 - 129	3	30
DONA	ND		2.67	3.15		ng/g	☼	118	79 - 139	3	30
Perfluorotetradecanoic acid	ND		2.83	2.93		ng/g	☼	103	67 - 127	1	30
HFPODA	ND		2.83	2.80		ng/g	☼	99	53 - 158	0	30
Total NEtFOSAA	ND		2.83	2.76		ug/Kg	☼	97	72 - 132	12	30
9Cl-PF3ONS	ND		2.64	2.88		ng/g	☼	109	74 - 134	3	30
Perfluorotridecanoic acid	ND		2.83	2.81		ng/g	☼	99	71 - 131	1	30
11Cl-PF3OUdS	ND		2.67	2.42		ng/g	☼	91	66 - 136	2	30
Perfluoroundecanoic acid	ND		2.83	2.66		ng/g	☼	94	66 - 126	1	30
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.61	2.62		ng/g	☼	100	50 - 150	5	30
FBSA	ND		2.83	3.07		ng/g	☼	108	50 - 150	5	30
FHxSA	ND		2.83	3.06		ng/g	☼	108	50 - 150	0	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*63*		*25 - 150*
13C4 PFHpA	*91*		*25 - 150*
13C5 PFPeA	*89*		*25 - 150*
13C2 PFTeDA	*72*		*25 - 150*
13C2 PFHxA	*88*		*25 - 150*
13C3 PFBS	*85*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C8 FOSA	*79*		*25 - 150*
13C2 PFUnA	*85*		*25 - 150*
d3-NMeFOSAA	*86*		*25 - 150*
13C2 PFDoA	*72*		*25 - 150*
d5-NEtFOSAA	*85*		*25 - 150*
18O2 PFHxS	*81*		*25 - 150*
M2-4:2 FTS	*102*		*25 - 150*
13C4 PFOS	*77*		*25 - 150*
M2-6:2 FTS	*98*		*25 - 150*

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: 240-169155-16 MSD
Matrix: Solid
Analysis Batch: 603459

Client Sample ID: SD2206291445WPS
Prep Type: Total/NA
Prep Batch: 601376

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-8:2 FTS	*98*		*25 - 150*
13C3 HFPO-DA	*90*		*25 - 150*

Lab Sample ID: MB 320-602165/1-A
Matrix: Water
Analysis Batch: 602953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		07/11/22 12:09	07/14/22 22:23	1
Total PFOA	ND		2.0	0.85	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorobutanoic acid	ND		5.0	2.4	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorobutanesulfonic acid	ND		2.0	0.20	ng/L		07/11/22 12:09	07/14/22 22:23	1
Br-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorodecanoic acid	ND		2.0	0.31	ng/L		07/11/22 12:09	07/14/22 22:23	1
Total PFHxS	ND		2.0	0.57	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorododecanoic acid	ND		2.0	0.55	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluoroheptanesulfonic acid	ND		2.0	0.19	ng/L		07/11/22 12:09	07/14/22 22:23	1
Br-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluoroheptanoic acid	ND		2.0	0.25	ng/L		07/11/22 12:09	07/14/22 22:23	1
Total PFOS	ND		2.0	0.54	ng/L		07/11/22 12:09	07/14/22 22:23	1
L-Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorodecanesulfonic acid	ND		2.0	0.32	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorohexanoic acid	ND		2.0	0.58	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorononanesulfonic acid	ND		2.0	0.37	ng/L		07/11/22 12:09	07/14/22 22:23	1
L-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorononanoic acid	ND		2.0	0.27	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorooctanesulfonamide	ND		2.0	0.98	ng/L		07/11/22 12:09	07/14/22 22:23	1
Br-N-methylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.2	ng/L		07/11/22 12:09	07/14/22 22:23	1
L-N-ethylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.3	ng/L		07/11/22 12:09	07/14/22 22:23	1
L-Perfluorooctanesulfonic acid	ND		2.0	0.54	ng/L		07/11/22 12:09	07/14/22 22:23	1
L-Perfluorooctanoic acid	ND		2.0	0.85	ng/L		07/11/22 12:09	07/14/22 22:23	1
Total NMeFOSAA	ND		5.0	1.2	ng/L		07/11/22 12:09	07/14/22 22:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.24	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluoropentanesulfonic acid	ND		2.0	0.30	ng/L		07/11/22 12:09	07/14/22 22:23	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.5	ng/L		07/11/22 12:09	07/14/22 22:23	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid	ND		5.0	1.3	ng/L		07/11/22 12:09	07/14/22 22:23	1
8:2 Fluorotelomer sulfonic acid	ND		2.0	0.46	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluoropentanoic acid	ND		2.0	0.49	ng/L		07/11/22 12:09	07/14/22 22:23	1
DONA	ND		2.0	0.40	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorotetradecanoic acid	ND		2.0	0.73	ng/L		07/11/22 12:09	07/14/22 22:23	1
HFPODA	ND		4.0	1.5	ng/L		07/11/22 12:09	07/14/22 22:23	1
Total NEtFOSAA	ND		5.0	1.3	ng/L		07/11/22 12:09	07/14/22 22:23	1
9Cl-PF3ONS	ND		2.0	0.24	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluorotridecanoic acid	ND		2.0	1.3	ng/L		07/11/22 12:09	07/14/22 22:23	1
11Cl-PF3OUdS	ND		2.0	0.32	ng/L		07/11/22 12:09	07/14/22 22:23	1
Perfluoroundecanoic acid	ND		2.0	1.1	ng/L		07/11/22 12:09	07/14/22 22:23	1

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 320-602165/1-A
Matrix: Water
Analysis Batch: 602953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		2.0	0.45	ng/L		07/11/22 12:09	07/14/22 22:23	1
FBSA	ND		2.0	0.35	ng/L		07/11/22 12:09	07/14/22 22:23	1
FHxSA	ND		2.0	0.22	ng/L		07/11/22 12:09	07/14/22 22:23	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*110*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C4 PFHpA	*109*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C5 PFPeA	*111*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C2 PFTeDA	*105*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C2 PFHxA	*110*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C3 PFBS	*103*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C4 PFOA	*109*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C5 PFNA	*109*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C2 PFDA	*114*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C8 FOSA	*99*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C2 PFUnA	*132*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
d3-NMeFOSAA	*117*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C2 PFDoA	*112*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
d5-NEtFOSAA	*112*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
18O2 PFHxS	*101*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
M2-4:2 FTS	*118*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C4 PFOS	*97*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
M2-6:2 FTS	*127*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
M2-8:2 FTS	*132*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*
13C3 HFPO-DA	*113*		*25 - 150*	*07/11/22 12:09*	*07/14/22 22:23*	*1*

Lab Sample ID: LCS 320-602165/2-A
Matrix: Water
Analysis Batch: 603459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total PFOA	40.0	43.4		ng/L		108	70 - 130
Perfluorobutanoic acid	40.0	40.6		ng/L		102	76 - 136
Perfluorobutanesulfonic acid	35.5	36.3		ng/L		102	67 - 127
Perfluorodecanoic acid	40.0	40.8		ng/L		102	76 - 136
Total PFHxS	36.5	36.6		ng/L		100	59 - 119
Perfluorododecanoic acid	40.0	43.8		ng/L		109	71 - 131
Perfluoroheptanesulfonic acid	38.2	39.9		ng/L		105	76 - 136
Perfluoroheptanoic acid	40.0	42.8		ng/L		107	72 - 132
Total PFOS	37.2	40.1		ng/L		108	70 - 130
Perfluorodecanesulfonic acid	38.6	41.1		ng/L		107	71 - 131
Perfluorohexanoic acid	40.0	39.6		ng/L		99	73 - 133
Perfluorononanesulfonic acid	38.5	42.8		ng/L		111	75 - 135
Perfluorononanoic acid	40.0	41.9		ng/L		105	75 - 135
Perfluorooctanesulfonamide	40.0	42.9		ng/L		107	73 - 133
Total NMeFOSAA	40.0	42.4		ng/L		106	76 - 136
4:2 Fluorotelomer sulfonic acid	37.5	37.0		ng/L		99	79 - 139
Perfluoropentanesulfonic acid	37.5	38.4		ng/L		102	66 - 126

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 320-602165/2-A
Matrix: Water
Analysis Batch: 603459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
6:2 Fluorotelomer sulfonic acid	38.1	39.2		ng/L		103	59 - 175
8:2 Fluorotelomer sulfonic acid	38.4	41.7		ng/L		109	75 - 135
Perfluoropentanoic acid	40.0	42.1		ng/L		105	71 - 131
DONA	37.8	42.2		ng/L		112	79 - 139
Perfluorotetradecanoic acid	40.0	43.1		ng/L		108	70 - 130
HFPODA	40.0	42.1		ng/L		105	51 - 173
Total NEtFOSAA	40.0	42.0		ng/L		105	76 - 136
9Cl-PF3ONS	37.4	42.1		ng/L		113	75 - 135
Perfluorotridecanoic acid	40.0	43.1		ng/L		108	71 - 131
11Cl-PF3OUdS	37.8	42.4		ng/L		112	54 - 114
Perfluoroundecanoic acid	40.0	37.1		ng/L		93	68 - 128
Perfluoro-4-ethylcyclohexanesulfonic acid	37.0	40.9		ng/L		111	70 - 130
FBSA	40.0	44.0		ng/L		110	70 - 130
FHxSA	40.0	43.0		ng/L		107	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*107*		*25 - 150*
13C4 PFHpA	*112*		*25 - 150*
13C5 PFPeA	*109*		*25 - 150*
13C2 PFTeDA	*105*		*25 - 150*
13C2 PFHxA	*105*		*25 - 150*
13C3 PFBS	*112*		*25 - 150*
13C4 PFOA	*109*		*25 - 150*
13C5 PFNA	*111*		*25 - 150*
13C2 PFDA	*115*		*25 - 150*
13C8 FOSA	*105*		*25 - 150*
13C2 PFUnA	*125*		*25 - 150*
d3-NMeFOSAA	*121*		*25 - 150*
13C2 PFDoA	*107*		*25 - 150*
d5-NEtFOSAA	*117*		*25 - 150*
18O2 PFHxS	*107*		*25 - 150*
M2-4:2 FTS	*129*		*25 - 150*
13C4 PFOS	*105*		*25 - 150*
M2-6:2 FTS	*129*		*25 - 150*
M2-8:2 FTS	*129*		*25 - 150*
13C3 HFPO-DA	*110*		*25 - 150*

Lab Sample ID: LCSD 320-602165/3-A
Matrix: Water
Analysis Batch: 603459

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602165

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total PFOA	40.0	42.5		ng/L		106	70 - 130	2	30
Perfluorobutanoic acid	40.0	41.8		ng/L		105	76 - 136	3	30
Perfluorobutanesulfonic acid	35.5	37.8		ng/L		106	67 - 127	4	30
Perfluorodecanoic acid	40.0	42.2		ng/L		105	76 - 136	3	30
Total PFHxS	36.5	36.7		ng/L		100	59 - 119	0	30
Perfluorododecanoic acid	40.0	42.4		ng/L		106	71 - 131	3	30

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCSD 320-602165/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 603459
Prep Batch: 602165

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid	38.2	42.6		ng/L		112	76 - 136	7	30
Perfluoroheptanoic acid	40.0	41.5		ng/L		104	72 - 132	3	30
Total PFOS	37.2	42.4		ng/L		114	70 - 130	5	30
Perfluorodecanesulfonic acid	38.6	42.6		ng/L		110	71 - 131	4	30
Perfluorohexanoic acid	40.0	40.4		ng/L		101	73 - 133	2	30
Perfluorononanesulfonic acid	38.5	44.5		ng/L		116	75 - 135	4	30
Perfluorononanoic acid	40.0	42.7		ng/L		107	75 - 135	2	30
Perfluorooctanesulfonamide	40.0	43.6		ng/L		109	73 - 133	2	30
Total NMeFOSAA	40.0	44.3		ng/L		111	76 - 136	4	30
4:2 Fluorotelomer sulfonic acid	37.5	41.3		ng/L		110	79 - 139	11	30
Perfluoropentanesulfonic acid	37.5	38.6		ng/L		103	66 - 126	1	30
6:2 Fluorotelomer sulfonic acid	38.1	38.9		ng/L		102	59 - 175	1	30
8:2 Fluorotelomer sulfonic acid	38.4	41.3		ng/L		107	75 - 135	1	30
Perfluoropentanoic acid	40.0	41.5		ng/L		104	71 - 131	1	30
DONA	37.8	44.9		ng/L		119	79 - 139	6	30
Perfluorotetradecanoic acid	40.0	43.5		ng/L		109	70 - 130	1	30
HFPODA	40.0	42.3		ng/L		106	51 - 173	0	30
Total NEtFOSAA	40.0	45.4		ng/L		114	76 - 136	8	30
9Cl-PF3ONS	37.4	43.8		ng/L		117	75 - 135	4	30
Perfluorotridecanoic acid	40.0	42.4		ng/L		106	71 - 131	2	30
11Cl-PF3OUdS	37.8	43.3	*+	ng/L		115	54 - 114	2	30
Perfluoroundecanoic acid	40.0	37.0		ng/L		92	68 - 128	0	30
Perfluoro-4-ethylcyclohexanesulfonic acid	37.0	39.6		ng/L		107	70 - 130	3	30
FBSA	40.0	45.3		ng/L		113	70 - 130	3	30
FHxSA	40.0	44.5		ng/L		111	70 - 130	4	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*101*		*25 - 150*
13C4 PFHpA	*109*		*25 - 150*
13C5 PFPeA	*106*		*25 - 150*
13C2 PFTeDA	*106*		*25 - 150*
13C2 PFHxA	*104*		*25 - 150*
13C3 PFBS	*105*		*25 - 150*
13C4 PFOA	*106*		*25 - 150*
13C5 PFNA	*106*		*25 - 150*
13C2 PFDA	*113*		*25 - 150*
13C8 FOSA	*98*		*25 - 150*
13C2 PFUnA	*124*		*25 - 150*
d3-NMeFOSAA	*114*		*25 - 150*
13C2 PFDoA	*107*		*25 - 150*
d5-NEtFOSAA	*107*		*25 - 150*
18O2 PFHxS	*101*		*25 - 150*
M2-4:2 FTS	*116*		*25 - 150*
13C4 PFOS	*97*		*25 - 150*
M2-6:2 FTS	*127*		*25 - 150*
M2-8:2 FTS	*125*		*25 - 150*
13C3 HFPO-DA	*106*		*25 - 150*

QC Association Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

LCMS

Prep Batch: 601376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169155-1	SD2206291305WPS	Total/NA	Solid	SHAKE	
240-169155-2	SD2206291310WPS	Total/NA	Solid	SHAKE	
240-169155-3	SD2206291315WPS	Total/NA	Solid	SHAKE	
240-169155-4	SD2206291235WPS	Total/NA	Solid	SHAKE	
240-169155-5	SD2206291240WPS	Total/NA	Solid	SHAKE	
240-169155-6	SD2206291245WPS	Total/NA	Solid	SHAKE	
240-169155-7	SD2206291330WPS	Total/NA	Solid	SHAKE	
240-169155-8	SD2206291335WPS	Total/NA	Solid	SHAKE	
240-169155-9	SD2206291340WPS	Total/NA	Solid	SHAKE	
240-169155-10	SD2206291245WPS-FD	Total/NA	Solid	SHAKE	
240-169155-11	SD2206291410WPS	Total/NA	Solid	SHAKE	
240-169155-12	SD2206291415WPS	Total/NA	Solid	SHAKE	
240-169155-13	SD2206291420WPS	Total/NA	Solid	SHAKE	
240-169155-14	SD2206291435WPS	Total/NA	Solid	SHAKE	
240-169155-15	SD2206291440WPS	Total/NA	Solid	SHAKE	
240-169155-16	SD2206291445WPS	Total/NA	Solid	SHAKE	
MB 320-601376/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-601376/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
240-169155-16 MS	SD2206291445WPS	Total/NA	Solid	SHAKE	
240-169155-16 MSD	SD2206291445WPS	Total/NA	Solid	SHAKE	

Prep Batch: 602165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169155-17	EB2206291350WPS	Total/NA	Water	3535	
240-169155-18	FB2206291355WPS	Total/NA	Water	3535	
MB 320-602165/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-602165/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-602165/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 602953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169155-17	EB2206291350WPS	Total/NA	Water	B/L/T PFAS	602165
240-169155-18	FB2206291355WPS	Total/NA	Water	B/L/T PFAS	602165
MB 320-602165/1-A	Method Blank	Total/NA	Water	B/L/T PFAS	602165

Analysis Batch: 603459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169155-1	SD2206291305WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-2	SD2206291310WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-3	SD2206291315WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-4	SD2206291235WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-5	SD2206291240WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-6	SD2206291245WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-7	SD2206291330WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-8	SD2206291335WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-9	SD2206291340WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-10	SD2206291245WPS-FD	Total/NA	Solid	B/L/T PFAS	601376
240-169155-11	SD2206291410WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-12	SD2206291415WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-13	SD2206291420WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-14	SD2206291435WPS	Total/NA	Solid	B/L/T PFAS	601376

LCMS (Continued)

Analysis Batch: 603459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169155-15	SD2206291440WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-16	SD2206291445WPS	Total/NA	Solid	B/L/T PFAS	601376
MB 320-601376/1-A	Method Blank	Total/NA	Solid	B/L/T PFAS	601376
LCS 320-601376/2-A	Lab Control Sample	Total/NA	Solid	B/L/T PFAS	601376
LCS 320-602165/2-A	Lab Control Sample	Total/NA	Water	B/L/T PFAS	602165
LCSD 320-602165/3-A	Lab Control Sample Dup	Total/NA	Water	B/L/T PFAS	602165
240-169155-16 MS	SD2206291445WPS	Total/NA	Solid	B/L/T PFAS	601376
240-169155-16 MSD	SD2206291445WPS	Total/NA	Solid	B/L/T PFAS	601376

General Chemistry

Analysis Batch: 600763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-169155-1	SD2206291305WPS	Total/NA	Solid	Moisture	
240-169155-2	SD2206291310WPS	Total/NA	Solid	Moisture	
240-169155-3	SD2206291315WPS	Total/NA	Solid	Moisture	
240-169155-4	SD2206291235WPS	Total/NA	Solid	Moisture	
240-169155-5	SD2206291240WPS	Total/NA	Solid	Moisture	
240-169155-6	SD2206291245WPS	Total/NA	Solid	Moisture	
240-169155-7	SD2206291330WPS	Total/NA	Solid	Moisture	
240-169155-8	SD2206291335WPS	Total/NA	Solid	Moisture	
240-169155-9	SD2206291340WPS	Total/NA	Solid	Moisture	
240-169155-10	SD2206291245WPS-FD	Total/NA	Solid	Moisture	
240-169155-11	SD2206291410WPS	Total/NA	Solid	Moisture	
240-169155-12	SD2206291415WPS	Total/NA	Solid	Moisture	
240-169155-13	SD2206291420WPS	Total/NA	Solid	Moisture	
240-169155-14	SD2206291435WPS	Total/NA	Solid	Moisture	
240-169155-15	SD2206291440WPS	Total/NA	Solid	Moisture	
240-169155-16	SD2206291445WPS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291305WPS
Lab Sample ID: 240-169155-1
Date Collected: 06/29/22 13:05
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291305WPS
Lab Sample ID: 240-169155-1
Date Collected: 06/29/22 13:05
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 16:53	D1R	TAL SAC

Client Sample ID: SD2206291310WPS
Lab Sample ID: 240-169155-2
Date Collected: 06/29/22 13:10
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291310WPS
Lab Sample ID: 240-169155-2
Date Collected: 06/29/22 13:10
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 63.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 17:15	D1R	TAL SAC

Client Sample ID: SD2206291315WPS
Lab Sample ID: 240-169155-3
Date Collected: 06/29/22 13:15
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291315WPS
Lab Sample ID: 240-169155-3
Date Collected: 06/29/22 13:15
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 17:38	D1R	TAL SAC

Client Sample ID: SD2206291235WPS
Lab Sample ID: 240-169155-4
Date Collected: 06/29/22 12:35
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291235WPS
Lab Sample ID: 240-169155-4
Date Collected: 06/29/22 12:35
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 18:00	D1R	TAL SAC

Client Sample ID: SD2206291240WPS
Lab Sample ID: 240-169155-5
Date Collected: 06/29/22 12:40
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291240WPS
Lab Sample ID: 240-169155-5
Date Collected: 06/29/22 12:40
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 63.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 18:23	D1R	TAL SAC

Client Sample ID: SD2206291245WPS
Lab Sample ID: 240-169155-6
Date Collected: 06/29/22 12:45
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291245WPS
Lab Sample ID: 240-169155-6
Date Collected: 06/29/22 12:45
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 18:46	D1R	TAL SAC

Client Sample ID: SD2206291330WPS
Lab Sample ID: 240-169155-7
Date Collected: 06/29/22 13:30
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291330WPS
Lab Sample ID: 240-169155-7

Date Collected: 06/29/22 13:30
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 63.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 19:31	D1R	TAL SAC

Client Sample ID: SD2206291335WPS
Lab Sample ID: 240-169155-8

Date Collected: 06/29/22 13:35
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291335WPS
Lab Sample ID: 240-169155-8

Date Collected: 06/29/22 13:35
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 56.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 19:53	D1R	TAL SAC

Client Sample ID: SD2206291340WPS
Lab Sample ID: 240-169155-9

Date Collected: 06/29/22 13:40
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291340WPS
Lab Sample ID: 240-169155-9

Date Collected: 06/29/22 13:40
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 66.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 20:16	D1R	TAL SAC

Client Sample ID: SD2206291245WPS-FD
Lab Sample ID: 240-169155-10

Date Collected: 06/29/22 12:45
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291245WPS-FD
Lab Sample ID: 240-169155-10

Date Collected: 06/29/22 12:45
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 20:39	D1R	TAL SAC

Client Sample ID: SD2206291410WPS
Lab Sample ID: 240-169155-11

Date Collected: 06/29/22 14:10
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291410WPS
Lab Sample ID: 240-169155-11

Date Collected: 06/29/22 14:10
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 51.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 21:01	D1R	TAL SAC

Client Sample ID: SD2206291415WPS
Lab Sample ID: 240-169155-12

Date Collected: 06/29/22 14:15
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291415WPS
Lab Sample ID: 240-169155-12

Date Collected: 06/29/22 14:15
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 49.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 21:24	D1R	TAL SAC

Client Sample ID: SD2206291420WPS
Lab Sample ID: 240-169155-13

Date Collected: 06/29/22 14:20
Matrix: Solid
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291420WPS — Lab Sample ID: 240-169155-13

Date Collected: 06/29/22 14:20 — **Matrix: Solid**
Date Received: 07/01/22 09:45 — **Percent Solids: 72.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 21:46	D1R	TAL SAC

Client Sample ID: SD2206291435WPS — Lab Sample ID: 240-169155-14

Date Collected: 06/29/22 14:35 — **Matrix: Solid**
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291435WPS — Lab Sample ID: 240-169155-14

Date Collected: 06/29/22 14:35 — **Matrix: Solid**
Date Received: 07/01/22 09:45 — **Percent Solids: 55.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 22:32	D1R	TAL SAC

Client Sample ID: SD2206291440WPS — Lab Sample ID: 240-169155-15

Date Collected: 06/29/22 14:40 — **Matrix: Solid**
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Client Sample ID: SD2206291440WPS — Lab Sample ID: 240-169155-15

Date Collected: 06/29/22 14:40 — **Matrix: Solid**
Date Received: 07/01/22 09:45 — **Percent Solids: 52.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 22:54	D1R	TAL SAC

Client Sample ID: SD2206291445WPS — Lab Sample ID: 240-169155-16

Date Collected: 06/29/22 14:45 — **Matrix: Solid**
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	600763	07/05/22 14:10	CFR	TAL SAC

Lab Chronicle

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Client Sample ID: SD2206291445WPS
Lab Sample ID: 240-169155-16

Date Collected: 06/29/22 14:45
Matrix: Solid
Date Received: 07/01/22 09:45
Percent Solids: 68.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			601376	07/07/22 12:24	RAC	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	603459	07/16/22 23:17	D1R	TAL SAC

Client Sample ID: EB2206291350WPS
Lab Sample ID: 240-169155-17

Date Collected: 06/29/22 13:50
Matrix: Water
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			602165	07/11/22 12:09	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602953	07/14/22 23:31	D1R	TAL SAC

Client Sample ID: FB2206291355WPS
Lab Sample ID: 240-169155-18

Date Collected: 06/29/22 13:55
Matrix: Water
Date Received: 07/01/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			602165	07/11/22 12:09	KAA	TAL SAC
Total/NA	Analysis	B/L/T PFAS		1	602953	07/14/22 23:53	D1R	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

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	06-30-23
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-22
Louisiana	NELAP	01944	06-30-23
Louisiana (All)	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	06-30-23
New York	NELAP	11666	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
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.

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information				
Client Contact: Mike Cox	Sampler: Wes Stambaugh	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-97045-35481.1
Company: AECOM	Phone: 567-239-1351	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Address: 3950 Sparks Drive SE	PWSID:			Job #:
City: Grand Rapids	Due Date Requested:			
State, Zip: MI, 49546	TAT Requested (days):			
Phone: 616-634-6234(Tel)	Compliance Project: Δ Yes Δ No			
Email: mike.cox@aecom.com	PO #: Purchase Order Requested			
Project Name: Former McDonalds Country Store, Ocscoda,	WO #:			
Site:	Project #: 24029298			
	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)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
SD22Φ629130Φ5WPS	Φ6/29/22	13Φ5	G	Solid			1	1	2	SDΦΦ2 East Bank
SD22Φ629131Φ WPS	Φ6/29/22	131Φ	G	Solid			1	1	2	SDΦΦ2 West Bank
SD22Φ629131.5WPS	Φ6/29/22	1315	G	Solid			1	1	2	SDΦΦ2 Center
SD22Φ629123.5WPS	Φ6/29/22	1235	G	Solid			1	1	2	SDΦΦ1 East Bank
SD22Φ629124Φ WPS	Φ6/29/22	124Φ	G	Solid			1	1	2	SDΦΦ1 West Bank
SD22Φ629124.5WPS	Φ6/29/22	1245	G	Solid			1	1	2	SDΦΦ1 center
SD22Φ629133Φ WPS	Φ6/29/22	133Φ	G	Solid			1	1	2	SDΦΦ3 South Bank
SD22Φ629133.5WPS	Φ6/29/22	1335	G	Solid			1	1	2	SDΦΦ3 North Bank
SD22Φ629134Φ WPS	Φ6/29/22	134Φ	G	Solid			1	1	2	SDΦΦ3 Center
SD22Φ629124.5WPS-FD	Φ6/29/22	1245	G	Solid			1	1	2	SDΦΦ1 Center
SD22Φ629141Φ WPS	Φ6/29/22	141Φ	G	Solid			1	1	2	SDΦΦ4 South Bank

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
Wes Stambaugh	6-30-22 0945	AECOM	[signature]	6.30.22 9:45	TAL
Fed Ex	6-30-22 3:00	TAL			

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

7/19/2022

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-97045-35481.2
Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
			Job #:

Client Information

Client Contact: Mike Cox
Company: AECOM
Address: 3950 Sparks Drive SE
City: Grand Rapids
State, Zip: MI, 49546
Phone: 616-634-6234(Tel)
Email: mike.cox@aecom.com
Project Name: Former McDonalds Country Store, Ocscoda,
Site:

PWSID:

Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested
WO #:
Project #: 24029298
SSOW#:

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture - Local Method	PFC_IDA_BLT - (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
SD22Φ6291415WPS	Φ6/29/22	1415	G	Solid			1	1	2	SDΦΦ4 North Bank
SD22Φ6291420WPS	Φ6/29/22	1420	G	Solid			1	1	2	SDΦΦ4 Center
SD22Φ6291435WPS	Φ6/29/22	1435	G	Solid			1	1	2	SDΦΦ5 South Bank
SD22Φ6291440WPS	Φ6/29/22	1440	G	Solid			1	1	2	SDΦΦ5 North Bank
SD22Φ6291445WPS	Φ6/29/22	1445	G	Solid			1	1	2	SDΦΦ5 Center
				Solid						
				Solid						
				Solid						
				Solid						
EB22Φ6291350WPS	Φ6/29/22	1350	G	Water			2	2	2	
FB22Φ6291355WPS	Φ6/29/22	1355	G	Water				2	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

Special Instructions/QC Requirements:

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

Method of Shipment:

Empty Kit Relinquished by:	Date:	Time:			
Relinquished by: Wes Stambough	Date/Time: 6-30-22 0945	Company: AECOM	Received by:	Date/Time: 6-30-22 9:45	Company: MAL
Relinquished by: FedEx	Date/Time: 6-30-22 3:00	Company: MAL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-154099.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-169155-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/14/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SD22062991305WPS (240-169155-1)	6/29/22	13:05 Eastern		Solid			X	X		2	
SD22062991310WPS (240-169155-2)	6/29/22	13:10 Eastern		Solid			X	X		2	
SD22062991315WPS (240-169155-3)	6/29/22	13:15 Eastern		Solid			X	X		2	
SD22062991235WPS (240-169155-4)	6/29/22	12:35 Eastern		Solid			X	X		2	
SD22062991240WPS (240-169155-5)	6/29/22	12:40 Eastern		Solid			X	X		2	
SD22062991245WPS (240-169155-6)	6/29/22	12:45 Eastern		Solid			X	X		2	
SD22062991330WPS (240-169155-7)	6/29/22	13:30 Eastern		Solid			X	X		2	
SD22062991335WPS (240-169155-8)	6/29/22	13:35 Eastern		Solid			X	X		2	
SD22062991340WPS (240-169155-9)	6/29/22	13:40 Eastern		Solid			X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: FedEx	Date/Time: 6.30.22 3:00	Company: DAC	Received by:	Date/Time: 7.1.22 950	Company: EEBOC	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1855222		Cooler Temperature(s) °C and Other Remarks: 1.6u			

Ver: 06/08/2021

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-154099.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #: 240-169155-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/14/2022			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former McDonalds Country Store, Ocscoda,	Project #: 24029298			
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 - Client ID (Lab ID)	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_BLT/Shake_Bath_14D (MOD) Michigan 31	Moisture	PFC_IDA_BLT/3535_PFC (MOD) Michigan 31	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SD22062991245WPS-FD (240-169155-10)	6/29/22	12:45 Eastern		Solid			X	X		2	
SD22062991410WPS (240-169155-11)	6/29/22	14:10 Eastern		Solid			X	X		2	
SD22062991415WPS (240-169155-12)	6/29/22	14:15 Eastern		Solid			X	X		2	
SD22062991420WPS (240-169155-13)	6/29/22	14:20 Eastern		Solid			X	X		2	
SD22062991435WPS (240-169155-14)	6/29/22	14:35 Eastern		Solid			X	X		2	
SD22062991440WPS (240-169155-15)	6/29/22	14:40 Eastern		Solid			X	X		2	
SD22062991445WPS (240-169155-16)	6/29/22	14:45 Eastern		Solid			X	X		2	
EB22062991350WPS (240-169155-17)	6/29/22	13:50 Eastern		Water					X	2	
FB2206291355WPS (240-169155-18)	6/29/22	13:55 Eastern		Water					X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Fed Ex	Date/Time: 6-30-22 3:00	Company: MC	Received by:	Date/Time: 7.1.22 9:50	Company: EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1855222		Cooler Temperature(s) °C and Other Remarks: 1.6c		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 240-169155-1

Login Number: 169155
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 07/01/22 02:41 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	1855222
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	1.6c
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

240-169155 Field Sheet

Job: _____

Tracking # : 4632 6807 8303

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: (+ / -) — °C

Ice / Wet / Gel ____ Other ____

Cooler Custody Seal: 1855222

Cooler ID: _____

Temp Observed: 1.6 °C Corrected: 1.6 °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: B Date: 7.1.22

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: B Date: 7.1.22

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: B Date: B 7.1.22 7.1.22

Isotope Dilution Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	PFTDA (25-150)	HFPODA (25-150)	C3PFBS (25-150)	PFBA (25-150)	C4PFHA (25-150)
240-169155-1	SD2206291305WPS	75	75	74	42	68	65	64	70
240-169155-2	SD2206291310WPS	101	87	92	68	77	73	73	77
240-169155-3	SD2206291315WPS	107	97	101	66	91	85	72	91
240-169155-4	SD2206291235WPS	108	106	108	71	93	94	94	98
240-169155-5	SD2206291240WPS	90	88	83	68	74	71	73	76
240-169155-6	SD2206291245WPS	93	85	82	50	76	77	76	80
240-169155-7	SD2206291330WPS	84	73	81	62	68	65	65	66
240-169155-8	SD2206291335WPS	82	77	84	55	71	68	66	73
240-169155-9	SD2206291340WPS	112	99	87	62	96	87	71	96
240-169155-10	SD2206291245WPS-FD	106	94	100	69	92	89	75	94
240-169155-11	SD2206291410WPS	76	76	77	66	69	68	67	70
240-169155-12	SD2206291415WPS	78	74	75	59	65	65	63	67
240-169155-13	SD2206291420WPS	109	97	84	76	90	90	92	91
240-169155-14	SD2206291435WPS	106	96	102	74	87	81	87	90
240-169155-15	SD2206291440WPS	92	82	83	65	77	74	73	80
240-169155-16	SD2206291445WPS	109	100	95	77	90	88	91	91
240-169155-16 MS	SD2206291445WPS	107	94	99	71	87	84	89	88
240-169155-16 MSD	SD2206291445WPS	102	98	98	72	90	85	63	91
LCS 320-601376/2-A	Lab Control Sample	100	95	99	70	88	88	89	90
MB 320-601376/1-A	Method Blank	92	85	84	64	80	76	75	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)	PFOSA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)
240-169155-1	SD2206291305WPS	69	65	59	54	70	69	68	65
240-169155-2	SD2206291310WPS	79	77	75	68	77	75	76	75
240-169155-3	SD2206291315WPS	89	86	78	79	92	89	90	85
240-169155-4	SD2206291235WPS	99	93	84	81	96	96	99	90
240-169155-5	SD2206291240WPS	76	73	67	63	76	76	75	70
240-169155-6	SD2206291245WPS	79	65	58	54	78	77	73	69
240-169155-7	SD2206291330WPS	66	70	69	57	68	67	67	65
240-169155-8	SD2206291335WPS	69	71	74	67	71	73	72	71
240-169155-9	SD2206291340WPS	98	76	75	71	95	92	91	78
240-169155-10	SD2206291245WPS-FD	94	90	90	79	92	90	90	86
240-169155-11	SD2206291410WPS	74	68	68	62	68	70	68	70
240-169155-12	SD2206291415WPS	67	64	65	57	64	65	66	65
240-169155-13	SD2206291420WPS	93	65	61	60	93	89	89	77
240-169155-14	SD2206291435WPS	91	81	83	68	89	88	89	83
240-169155-15	SD2206291440WPS	78	71	75	63	74	78	77	71
240-169155-16	SD2206291445WPS	92	80	76	67	90	92	88	83
240-169155-16 MS	SD2206291445WPS	88	90	83	80	85	86	85	85
240-169155-16 MSD	SD2206291445WPS	89	86	85	79	88	89	89	85
LCS 320-601376/2-A	Lab Control Sample	89	81	72	73	91	89	89	85
MB 320-601376/1-A	Method Blank	81	68	66	62	78	79	77	73

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFHxS (25-150)	PFOS (25-150)
240-169155-1	SD2206291305WPS	56	40	67	60
240-169155-2	SD2206291310WPS	77	60	70	71
240-169155-3	SD2206291315WPS	78	65	87	80

Isotope Dilution Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFHxS (25-150)	PFOS (25-150)
240-169155-4	SD2206291235WPS	84	65	94	85
240-169155-5	SD2206291240WPS	68	59	70	63
240-169155-6	SD2206291245WPS	60	42	75	67
240-169155-7	SD2206291330WPS	71	56	63	61
240-169155-8	SD2206291335WPS	74	58	70	67
240-169155-9	SD2206291340WPS	72	62	88	74
240-169155-10	SD2206291245WPS-FD	89	76	84	78
240-169155-11	SD2206291410WPS	68	60	66	63
240-169155-12	SD2206291415WPS	62	54	64	60
240-169155-13	SD2206291420WPS	66	50	86	73
240-169155-14	SD2206291435WPS	84	71	81	75
240-169155-15	SD2206291440WPS	72	61	75	68
240-169155-16	SD2206291445WPS	79	58	86	77
240-169155-16 MS	SD2206291445WPS	84	72	86	78
240-169155-16 MSD	SD2206291445WPS	85	72	81	77
LCS 320-601376/2-A	Lab Control Sample	79	62	87	82
MB 320-601376/1-A	Method Blank	73	63	74	69

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS

Method: B/L/T PFAS - Branched, Linear and Total PFAS

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)
240-169155-17	EB2206291350WPS	112	112	111	114	111	113	117	125
240-169155-18	FB2206291355WPS	105	107	108	107	108	110	110	123
LCS 320-602165/2-A	Lab Control Sample	107	109	105	112	109	111	115	125
LCSD 320-602165/3-A	Lab Control Sample Dup	101	106	104	109	106	106	113	124
MB 320-602165/1-A	Method Blank	110	111	110	109	109	109	114	132

Isotope Dilution Summary

Client: AECOM
Job ID: 240-169155-1
Project/Site: Former McDonalds Country Store, Ocscoda,

Method: B/L/T PFAS - Branched, Linear and Total PFAS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
240-169155-17	EB2206291350WPS	114	105	110	109	105	106	119	121
240-169155-18	FB2206291355WPS	106	101	104	102	98	97	107	108
LCS 320-602165/2-A	Lab Control Sample	107	105	112	107	105	105	121	117
LCSD 320-602165/3-A	Lab Control Sample Dup	107	106	105	101	97	98	114	107
MB 320-602165/1-A	Method Blank	112	105	103	101	97	99	117	112

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
240-169155-17	EB2206291350WPS	131	125	136	113
240-169155-18	FB2206291355WPS	122	125	123	108
LCS 320-602165/2-A	Lab Control Sample	129	129	129	110
LCSD 320-602165/3-A	Lab Control Sample Dup	116	127	125	106
MB 320-602165/1-A	Method Blank	118	127	132	113

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA