
PHASE 2B INTERIM INVESTIGATION DELIVERABLE

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NYSDEC Site No. 442047

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LIST OF ACRONYMS

ACRONYM	Definition
COPC	Constituents of Potential Concern
EPA	United States Environmental Protection Agency
FSAP	Field Sampling and Analysis Plan
HASP	Health and Safety Plan
IID	Interim Investigation Deliverable
IRM	Interim Remedial Measures
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PFAS	Per- and Poly-Fluoro Alkyl Substances
PFOA	Perfluorooctanoic Acid
PTFE	polytetrafluoroethylene
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QHHEA	Qualitative Human Health Exposure Assessment
RI/FS	Remedial Investigation/Feasibility Study

1.0 INTRODUCTION

Tonoga, Inc. d/b/a Taconic (Taconic) has prepared this Interim Investigation Deliverable for Phase 2c Remedial Investigation (RI) for the Taconic Site (Site) located in the Town of Petersburg (Town), Rensselaer County, New York. A phased investigation approach was established in the RI/FS Work Plan (OBG 2018) and approved by the NYSDEC. Phase 2c of the RI is being conducted under the Supplemental Work Plan Phase 2c Remedial Investigation approved by the NYSDEC on September 12, 2023. As described in the Work Plan, Phase 2c is intended to refine the definition of the primary route(s) for off-site migration of constituents of potential concern (COPCs), refine the extent of COPCs exceeding regulatory or guidance limits, and gather additional data needed to complete the Fish and Wildlife Impact Analysis (FWIA).

The Remedial Investigation/Feasibility Study (RI/FS) is being conducted in accordance with the requirements of the Administrative Settlement Agreement and Order on Consent (Index No. CO 4-20160519-01) (Settlement Agreement) executed between the NYSDEC and Taconic, with an effective date of November 20, 2016. The Site is listed on the New York State Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site (Site No. 442047).

A phased investigation approach was established in the RI/FS Work Plan (OBG 2018) and approved by the NYSDEC. The activities of Phase 2b are intended to gather data on the range of PFAS concentration in agricultural products produced in the vicinity of the Site to support the Qualitative Human Health Exposure Assessment (QHHEA) requirements of the RI.

1.1 Site Description

Taconic owns a facility in Petersburg, New York where it manufactures polytetrafluoroethylene (PTFE) coated fabrics. The Site is in a rural area, at the northernmost intersection of Coonbrook Road and State Route 22 (**Figure 1**). The Site is a 23.54-acre area that features nine structures related to manufacturing and three parking lots (**Figure 2**). There is an unnamed stream that runs through the Site (Unnamed Stream 1) and another running south of the Site on Taconic-owned property (Unnamed Stream 2). Near the Site, both streams can be dry in summer. Unnamed Stream 1 is not accessible to the public as it is on Taconic-owned property from upstream of the Site until the confluence with the Little Hoosic River. Unnamed Stream 2 is on Taconic-owned property south of the Site, and on private property upstream of the Site. Downstream of the Site after flowing under Route 22, Unnamed Stream 2 flows for about 250 feet along the border of a Taconic-owned property and a private property to the south.

The Site is currently an operating manufacturing facility. The surrounding parcels (some of which are owned by Taconic) are residential or undeveloped. The Little Hoosic River runs south to north on the opposite side of Route 22 from the Site.

1.2 Previous Remedial Activities Completed

Several Interim Remedial Measures (IRMs) and pre-RI activities have been completed at the Site, and RI activities are ongoing, with the first phase (Phase 1) and portions of second phase (Phases 2a and 2b) having been completed. IRMs and pre-RI activities completed to date are summarized in **Section 1.2.1**. RI activities completed under Phase 1 and Phase 2a are summarized in **Sections 1.3.1** and **1.3.3**.

1.2.1 IRM and Pre-RI Activities

IRMs and pre-RI activities are outlined below. Taconic has worked with the NYSDEC, Town, Rensselaer County Department of Health (RCDOH) and NYSDOH to implement the following:

- Provided residents of the Town with bottled water at multiple locations, free of charge, including home delivery to residents with special needs;
- Provided a climate-controlled bottled water headquarters at the Town Hall where Taconic distributed free water to Town residents;
- Provided a recycling center for Town residents' empty water bottles;
- Installed over 90 point of entry treatment (POET) systems in a designated Area of Interest on private wells in the Town and is currently providing sampling and maintenance of the POET systems. At the time of this report, over 2,000 samples of residential water supplies have been collected and analyzed to ensure the POET systems continue to provide drinking water to residents in the Town without detectable traces of perfluorooctanoic acid (PFOA), and other related poly- and perfluoroalkyl substance (PFAS) compounds;
- Collected samples of residential water supplies throughout the Area of Interest to ensure the raw water quality in wells that are not equipped with POET systems remain below the action levels established by the State. At the time of this report, over 500 samples of raw water supplies have been sampled and analyzed for PFOA and related compounds;
- Designed and installed a customized granular activated carbon (GAC) water treatment system for the Town Public Water Supply. The GAC system has been in operation since the Spring of 2017, with PFOA and related compounds below detectable levels in the treated water. As of this writing, over 100 samples of the Town's water supply have been collected and analyzed to ensure the GAC system continues to provide drinking water to residents in the Town without detectable traces of PFOA, and other related PFAS compounds;
- Designed and installed modifications to the GAC system in 2018 consisting of a recirculation loop and tank bypass line. The recirculation loop was installed to ensure the minimum flow requirements of the GAC system would be met during periods in which the Town was experiencing low well yields. The tank bypass line was installed to provide the make-up water for the recirculation loop and to facilitate future tank cleaning, inspection, and upgrade projects planned by the Town; and,
- Completed pre-RI field investigations as approved by the NYSDEC consisting of sampling and analysis of water samples from Taconic production wells, three ponds, and two streams near the Site.

The results of the Phase 1a and 1b RI are summarized in the Interim Investigation Deliverable (IID), which was submitted to NYSDEC on February 28, 2020 (Parsons 2020).

Phase 1 involved sampling of relevant media (e.g., surface water, sediment, groundwater, surface soil, subsurface soil, wastewater and sludge) to define the nature of the COPCs and evaluate their extent. Phase 1 included the sampling of environmental media on the Site and nearby Taconic-owned properties, and laboratory analysis for PFAS, Target Compound List (TCL)/Target Analyte List (TAL) constituents, cyanide, total organic carbon (TOC), major cations/anions, grain size, and pH. Phase 1 was broken into subtasks of Phase 1a and Phase 1b, the objectives and activities of which are summarized **Sections 1.3.2.1** and **1.3.2.2**, respectively.

In addition to the field activities and the associated laboratory analyses, Phase 1 (both Phases 1a and 1b) also included data validation activities. Data validation was performed in accordance with Section 2.11 of the RI/FS Work Plan (OBG 2018) and associated Quality Assurance Project Plan (QAPP) (OBG 2018) by Data Validation Services, Inc.

1.2.1.1 Phase 1a

The objective of Phase 1a was to begin to define the nature of the Constituents of Primary Concern (COPCs) and evaluate their extent, through the collection of environmental samples. The environmental media sampled

included groundwater, surface water, sediment, surface soil, and subsurface soil. Wastewater and sludge in tanks were also sampled during Phase 1a for laboratory analysis. A primary objective of Phase 1a was also to collect preliminary groundwater data to inform the placement of groundwater monitoring wells to be installed in Phase 1b.

Phase 1a field activities were implemented from April 2018 through September 2018 and included:

- Collection and analysis of 26 surface water samples;
- Collection and analysis of 15 sediment samples;
- Collection and analysis of 80 surface soil samples;
- Collection and analysis of wastewater and sludge samples;
- Installation of two exploratory boreholes (with completion as open shallow bedrock monitoring wells);
- Borehole geophysical testing and concurrent depth-discrete groundwater profiling;
- Direct-push overburden investigation, including:
 - Direct sensing at four locations;
 - Collection and analysis of 33 discrete-interval groundwater samples; and
 - Collection and analysis of 41 subsurface soil samples.

1.2.1.2 RI Phase 1b

Phase 1b involved installation and sampling of groundwater monitoring wells to further define the nature of the COPCs and evaluate their extent. Groundwater monitoring well locations were chosen based on data from the direct-push overburden investigation, completed as part of Phase 1a.

Phase 1b field activities were implemented from April 2019 through October 2019 and included:

- Installation of 24 overburden monitoring wells;
- Collection of subsurface soil at 4 monitoring well locations;
- Development of monitoring wells;
- Hydraulic conductivity testing;
- Collection and analysis of groundwater samples (24 overburden monitoring wells, and two former residential wells, one at a Taconic-owned property on Coonbrook Rd and another at the Taconic-owned campground adjacent to the Little Hoosic River);
- Collection and analysis of groundwater samples from a new production well installed at the Site; and,
- Surveying.

1.2.2 Phase 2 Remedial Investigation

Phase 2 is intended to complete the requirements of an RI as described in *DER-10/Technical Guidance for Site Investigation and Remediation* (NYSDEC 2010). The objective of the Phase 2 RI is to expand the sampling and analysis of environmental media within the site and adjacent off-site areas to better define the potential source areas, migration pathways, and the nature and extent of the compounds at or emanating from the Site. In addition, as requested by the NYSDEC, a Fish and Wildlife Impact Analysis (FWIA) and a Qualitative Human Health Exposure Assessment (QHHEA) will be completed as part of Phase 2 of the RI.

Like Phase 1 of the RI, Phase 2 is also being completed in iterative phases, whereby data gathered in the initial phases will be used to plan and implement subsequent phases, as needed, to identify and design potential Interim Remedial Measures (IRMs) and to ultimately complete the RI.

The results of the Phase 2a RI are summarized in the Interim Investigation Deliverable (IID), which was submitted to NYSDEC on August 10, 2022 (Parsons 2022b).

Phase 2a involved additional collection of data and environmental samples to further delineate the extent of COPCs in environmental media and refine understanding of the geology and hydrogeology to assist with identification of primary migration pathways. Phase 2a was conducted in accordance with the Supplemental Work Plan Phase 2a Remedial Investigation approved by the NYSDEC on September 8, 2020 and the Supplemental Building 1 Remedial Investigation Work Plan approved by the NYSDEC on July 28, 2021.

Phase 2a field activities were implemented from November 2020 through March 2022 and included:

- Collection and analysis of 48 natural surface water samples during baseflow conditions, collected over two rounds of sampling;
- Collection and analysis of 37 stormwater and natural surface water samples during stormflow conditions, collected over two rounds of sampling;
- Collection and analysis of 12 sediment samples;
- Collection of 90 surface, near surface, and subsurface soil samples from 33 off-site sample locations;
- Collection of 13 surface, near surface, and subsurface soil samples from three on-site soil boring locations drilled for monitoring well installation;
- Collection of 17 subsurface soil samples from eight soil boring locations around Building 1;
- Installation, development, and sampling of two shallow/deep overburden monitoring well pairs (co-located with new bedrock well locations)
- Installation of three new overburden monitoring wells adjacent to Building 1;
- Development and sampling of two out of three new overburden wells adjacent to Building 1;
- Sampling of five existing overburden monitoring wells to assist with investigation of Building 1 groundwater;
- Surface geophysics to preliminarily characterize subsurface conditions, prior to installation of additional groundwater monitoring wells;
- Installation of seven bedrock groundwater monitoring wells;
- Sampling of mixed borehole groundwater from four new bedrock groundwater monitoring wells;
- Borehole geophysics to identify potential water-bearing fracture zones for discrete interval groundwater sampling;
- Discrete interval bedrock groundwater sampling using packer sampling methods in six new bedrock groundwater monitoring wells;
- Installation and two rounds of gauging of three staff gauges in local rivers and streams; and
- Three rounds of monitoring well gauging.

2.0 SUMMARY OF PHASE 2B INVESTIGATION

This Phase 2b investigation was completed to support the Qualitative Human Health Exposure Assessment (QHHEA). The requirements for the QHHEA are consistent with NYSDEC DER-10 Appendix 3B and outlined in the QHHEA scope of work approved by NYSDEC and NYSDOH, dated June 7, 2022, in **Appendix A**. The purpose of the QHHEA is to evaluate and document how people might be exposed to site-related contaminants and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site. The data summarized in this report, as well as any other additional data that may be needed, will be included in the QHHEA Report and submitted to NYSDEC for review and approval.

The scope of the Phase 2b workplan was to collect data on the range of concentration of COPCs in the following local agricultural products as may be available in the vicinity of the Site:

- Fruits and vegetables
- Maple syrup
- Eggs
- Milk*; and,
- Beef and chicken* meat.

*There were no participants in the vicinity of the site producing milk or chicken meat, so these products were not sampled as part of Phase 2b.

Although there are no formally promulgated regulatory standards for PFAS in home/farm raised food products, in December 2021, the NYSDEC published proposed modifications to 6NYCRR Part 375, including draft Soil Cleanup Objectives (SCOs) for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). The Guidance Values and draft SCOs for PFOA and PFOS were derived by the NYSDEC to be protective of human health for various land use categories, some of which include the consumption of food products raised on the property.

The 2020 and 2022 NYSDEC Guidance Values and 2021 draft SCO Regulations in the table below for PFOA and PFOS are lower (more stringent) than residential soil targets in any other State reporting such criteria.

Guidance Values and Draft SCO Regulations for Anticipated Site Use	PFOA in Soil (ppb)	PFOS in Soil (ppb)
Restricted Residential	33	44
Residential	6.6	8.8
Unrestricted	0.66	0.88

The anticipated site use categories and associated exposure scenarios established by the NYSDEC (Unrestricted, Residential, and Restricted Residential) are described below:

- **Unrestricted Use** values are protective for an intensive residential/farm soil use scenario where contact with soil contaminants is possible via three pathways: direct contact/ingestion, the consumption of homegrown fruit/vegetables and the consumption of homeraised meat/dairy products;

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- **Residential Use** values are protective for a non-farm soil use scenario where contact with soil contaminants is possible via two pathways: direct contact/ingestion, and the consumption of homegrown fruit/vegetables; and,
 - **Restricted Residential Use** values are protective where contact with soil contaminants is via direct contact/ingestion only, where no homegrown products of any type are consumed.

Phase 2b sampling activities and laboratory analyses were performed in accordance with the Field Sampling and Analysis Plan (FSAP), Quality Assurance Project Plan (QAPP), Health and Safety Plan (HASP), and Community Air Monitoring Plan (CAMP), as previously approved by the NYSDEC. These supplementary plans are available at the Document Repository at the Town Hall, 65 Main Street, Petersburg, New York.

2.1 Objectives

The objectives of the Phase 2b RI are as follows:

- Collect data necessary to evaluate if pathways related to consumption of local agricultural products are potentially complete; and,
- Identify additional data that may be needed to support the completion of the QHHEA related to consumption of local agricultural products.

2.2 Investigation Approach

The selection of properties for sampling considered the following factors:

- Spatial distribution and general concentration trends of COPCs as identified in surface soil samples collected during previous phases of the RI. The general spatial distribution of COPCs as identified to date during the RI indicates generally higher concentrations nearer the Site with concentrations decreasing with distance from the Site. Also, properties to the northwest of the site seem to exhibit higher concentrations of COPCs in surface soils, while properties to the south and east exhibit somewhat lower concentrations of COPCs. Additionally, as requested by the NYSDOH, properties were selected to attempt to cover a range of anticipated surface soil concentrations of COPCs.
- Groundwater concentrations of PFOA, primarily from residential well sampling. Residential well monitoring data collected as described in the POET Sampling, Operation, and Maintenance Plan, Petersburg Area of Interest (Revision 3) was also considered in property selection. The residential well sampling data indicates higher concentrations of COPCs closest to the site, with the highest concentrations immediately northeast of the site.
- Availability of targeted agricultural products. Certain agricultural products, such as syrup, eggs, and beef were available at a limited number of properties.
- Requests from property owners. Some properties owners expressed to Taconic and/or the State Agencies a strong desire for sampling. Property Owner requests were accommodated to the extent practical, and with the sampling plan targets described in the approved Work Plan.

Beginning in the Fall of 2022, Taconic mailed surveys and access agreements to property owners potentially growing and/or raising agricultural products in the vicinity of the Site. The responses to the initial survey received by Taconic are summarized in **Table 1** and shown on **Figure 3**. Using the results of the initial survey, the sampling objectives described in the approved Work Plan, and additional consultations with the NYSDEC and NYSDOH, Taconic contacted specific property owners in the spring and summer of 2023 to finalize access agreements and to identify the specific agricultural products available for sampling. Adjustments to

the properties selected for sampling was made at this time as some properties did not have the agricultural products available in the 2023 growing season as planned based on the Fall 2022 survey response

Sampling of agricultural products began in July of 2023, with the initial sampling of syrup, beef, and eggs. In August and September 2023, as seasonal produce became available, sampling of fruits and vegetables was conducted. In September and November 2023, additional samples of syrup and eggs were also collected. The general sampling procedures (e.g. PPE and other handling considerations) were consistent with those used for the RI as outlined in the approved RI/FS Work Plan and the NYSDEC PFAS Guidance-2022.

A summary of the agricultural products sampled and a comparison to the sampling requirements of the approved Work Plan is provided in **Table 2**

The general locations of the properties sampled, and the associated agricultural products sampled are provided in **Figure 4**.

As shown in **Table 2**, depending on the locations selected for sampling and the availability of existing RI data, additional soil sampling and testing was also performed to assess the PFAS concentrations in the vicinity of the agricultural products sampled. Also, during sampling, to improve the understanding of possible uptake and transfer mechanisms, property owners were asked to provide information on the methods used to grow or raise the agricultural products. The responses to the questionnaire are summarized in **Appendix B**.

To obtain the samples of the targeted agricultural products, Taconic personnel scheduled meeting time with each property owner. Fruits and vegetable samples were general collected by Taconic personnel directly from the plants. In some cases, some samples, such as some berries, the produce had been previously picked by the homeowners and provided to Taconic. Eggs were collected by the homeowners and picked-up by Taconic. Syrup, which had been produced by the homeowners in the spring of 2023, was picked up by Taconic in containers provided by the homeowner. Samples were delivered under Chain-of-Custody to Eurofins Environmental Laboratories, (ELLE) located in Lancaster, Pennsylvania for analysis.

To accommodate the analytical methods required for the agricultural products, the Quality Assurance Project Plan (QAPP) was updated by Taconic and approved by the NYSDEC in May of 2023. Analytical methods for the listed matrices were evaluated and chosen in consultation with the NYSDEC. The revised QAPP includes a description of the analytical methods, laboratory SOPs, and laboratory NELAC certifications.

As described in the approved QAPP, Egg, beef and vegetable samples were prepared and analyzed by draft EPA Methods 1633 for the 40 PFAS as identified in NYSDEC Guidance. The samples with higher sugar content (e.g., syrup and fruit) were prepared by the FDA Method C-010.02 and analyzed by EPA Method 537.

Laboratory reports for the agricultural product samples are provided in **Appendix C**. Laboratory reports for the associated soil samples are provided in **Appendix D**.

In addition to the field activities and the associated laboratory analyses, Phase 2b also included data validation activities. Data validation was performed in accordance with Section 2.11 of the RI/FS Work Plan (OBG 2018) and associated Quality Assurance Project Plan (QAPP) (OBG 2018) by Data Validation Services, Inc. The Data Usability Summary Reports (DUSRs) for the agricultural products and associated soil samples are included in **Appendix E**.

Data validation qualifiers have been added to the analytical results in **Table 3**, consistent with the DUSRs in **Appendix E**. The following summarizes the finding of the data validation review:

- As summarized in the DUSR dated February 16, 2024, for the agricultural products, sample processing was conducted in compliance with project requirements and with adherence to quality criteria. Sample results are primarily usable either as reported, or with minor qualification. However, a total of twelve analyte data points were rejected due to matrix effects, and numerous sample results are qualified as estimated in value, also due to matrix effects. Data completeness, accuracy, precision, representativeness, sensitivity, and the analytical method comparability meet project QAPP requirements.
- As summarized in the DUSR dated February 18, 2024, for the soil sample results, sample processing was conducted in compliance with project requirements and with adherence to quality criteria. Data completeness, accuracy, precision, representativeness, sensitivity, and the analytical method comparability meet project QAPP requirements. Sample results are usable either as reported, or with minor qualification.

2.2.1 Fruits and Vegetables

The approved QHHEA scope of work identifies ingestion of fruits and vegetables as a potential exposure pathway for further evaluation.

In Chapter 9 of the Exposure Factors Handbook (USEPA 2018), EPA divides fruits and vegetables into the following categories:

- Exposed fruit, such as apples, cherries, eggplant, grapes, peaches, plums, raspberries, strawberries
- Protected fruit, such as citrus fruit, bananas, mango, avocado
- Exposed vegetables, such as alfalfa, basil, cabbage, cauliflower, celery, lettuce, tomato
- Protected vegetables, such as beans, cantaloupe, chickpeas, peas, squash, and watermelon
- Root/ tuber vegetables, such as beets, carrots, turnips, parsnips, and potatoes

To support the evaluation of this pathway, samples from different categories of fruits and vegetables that are relevant to Petersburg were collected for laboratory analysis. As shown in Table 2, a total of 30 samples of fruits and vegetables were sampled and analyzed. The categories described in the EPA reference were sampled except for protected fruits, as there was no protected fruit identified in the area at the time of sampling.

Only edible portions of produce were analyzed because this would represent the ingestion exposure pathway to humans.

Samples were collected in Ziploc bags and frozen to prevent spoilage.

Thirty samples of various fruits and vegetables were collected, managed, and analyzed for PFAS in accordance with the FSAP and QAPP. The analytical results for the fruits and vegetables are presented in **Table 3**. General sample locations are shown in **Figure 4**.

2.2.2 Maple Syrup

The approved QHHEA scope of work identifies ingestion of maple syrup as a potential exposure pathway for further evaluation. Though ingestion of maple syrup is not expected to be a significant exposure pathway based on the study completed in North Bennington, VT (VTDEC 2016), sampling and analysis of syrup produced at two locations near the Site were collected and analyzed.

One syrup sample was supplied by the owner in a 1-pint HDPE syrup bottle which was labelled and shipped to the laboratory in the container received from the producer. The second sample was transferred from the glass container supplied by the producer to a laboratory-supplied HDPE container.

The two samples of syrup were collected, managed, and analyzed for PFAS in accordance with the FSAP and QAPP. The analytical results for the syrup samples are presented in **Table 3**. General sample locations are shown in **Figure 4**.

2.2.3 Eggs

The approved QHHEA scope of work identifies ingestion of eggs as a potential exposure pathway for further evaluation. To support the evaluation of this pathway, samples of eggs were collected at five properties for laboratory analysis.

Each egg sample consisted of 3-5 individual eggs gathered from the henhouse by the property owners. Although the Work Plan indicated a sample size of 2 eggs in each sample, since the eggs were small, 3-5 eggs were provided in each sample to provide a sufficient volume for analysis. The eggs were cracked open into laboratory supplied High-Density Polyethylene (HDPE) containers and shipped to the laboratory for analysis. The HDPE sample container was selected since it would withstand sample freezing and is an acceptable container type specified in Table 1 of the QAPP. At one location, the eggs supplied by the owner were divided into two groups. The sample for one group was prepared as described above and the sample for the other group prepared by gently rinsing soil and debris from the exterior of the eggshell using laboratory-provided PFAS-free water prior to cracking the eggs into the sample container.

A duplicate sample pair of washed and unwashed eggs was analyzed to assess the possibility of the internal edible portions of the egg becoming cross-contaminated by dirt and debris from the shell during cracking of the eggs into the sample container.

The seven samples of eggs were collected, managed, and analyzed for PFAS in accordance with the FSAP and QAPP. The analytical results for the egg samples are presented in **Table 3**. General sample locations are shown in **Figure 4**.

2.2.4 Milk

The approved QHHEA scope of work identifies ingestion of milk as a potential exposure pathway for further evaluation. Milk samples were not collected as Taconic did not identify any milk producers using the survey results in Table 1 and additional follow-up with members of the community.

2.2.5 Beef and Chicken Meat

The approved QHHEA scope identifies ingestion of locally raised livestock as an exposure pathway for further evaluation. To support the evaluation of this pathway, a sample of beef produced on one local farm was collected. No producers of chicken meat were identified in the survey conducted by Taconic or with follow-up conversations with community members and groups.

The beef sample consisted of previously ground and frozen beef within the original packaging. The sample was partially thawed, repackaged into a zip lock bag, and refrozen for shipment to the laboratory.

The beef sample was collected, managed, and analyzed for PFAS in accordance with the FSAP and QAPP. The analytical results for the beef sample are presented in **Table 3**. General sample locations are shown in **Figure 4**.

2.2.6 Surface Soil and Surface Water Samples

The approved RI Phase 2b Work Plan includes provisions for the collection of additional samples of environmental media (e.g. soil and water) as needed to supplement existing RI data that was collected during previous phases of the investigations. Of the 11 properties where agricultural products were sampled, surface soil samples were collected at a total of 18 locations on eight of the properties. The nature of these soil sample locations collected in 2023 are described in the headings in Table 3 as follows:

- **Garden Soil**-The surface soil sample was collected within the active garden area.
- **Coop Soil**-The surface soil sample was collected within the chicken coop area.
- **Orchard Soil**-The surface soil sample was collected beneath the fruit tree(s).
- **Woods Soil**-The surface soil sample was collected in undisturbed wooded areas. If associated with a property with a syrup sample, the soil sample was collected in the area where maple trees had been tapped.

The surface soil samples were collected between October 24 and November 1, 2023. At each surface soil sample location where refusal was not encountered, soil samples were collected at 0 to 2 inches below ground surface (bgs) and 2 to 12 inches bgs. The soil samples were collected, managed, and analyzed for PFAS in accordance with the FSAP and QAPP. The soil analytical results are presented on **Table 3** and **Figure 4**.

Sampling of surface water was not performed as part of the Phase 2b RI. As reported by the property owners, most gardens were not watered, and those that were watered used water supplied from a residential well with an existing POET system that is monitored and maintained by Taconic. The following described the surface water sources observed at each of the properties:

- **PB0000**-The resident reported the Little Hoosic River was used as a water source for the chickens and the garden. Addition samples of the Little Hoosic River were not collected during this Phase 2b since the Little Hoosic River has been extensively sampled during previous phases of the RI.
- **PB0222**-There were no surface water sources identified at this property.
- **PB0245**-There were no surface water sources identified at this property used to produce agricultural products. There is a pond on the property and an un-named stream adjacent to the property that have both been sampled during other phases of the RI. The results from these samples are not included in this report as these water sources are not associated with the agricultural products on the property.
- **PB0247**-There were no surface water sources identified at this property used to produce agricultural products. The property adjoins the Little Hoosic River and is traversed by a small stream. Both of these water sources have been sampled during previous phases of the RI. The results from these samples are not included in this report as these water sources are not associated with the agricultural products on the property.
- **PB0249**-There were no surface water sources identified at this property used to produce agricultural products. There is an un-named stream adjacent to the property that has been sampled during other phases of the RI. The results from these samples are not included in this report as this water source is not associated with the agricultural products on the property.
- **PB0352**-There were no surface water sources identified at this property used to produce agricultural products. There is an un-named stream adjacent to the property that has been sampled during other phases of the RI. The results from this samples are not included in this report as this water sources is not associated with the agricultural products on the property.
- **PB0362**. There is a farm pond with inlet and outlet stream on this property. It is not known if this surface water source is ever used for the chickens producing the eggs sampled here. A sample of the surface water in the pond was collected and the results are included in **Table 3**.
- **PB0364**-The are un-named streams on this property that are used as the water source for the cattle raised here. This water source was sampled in 2020, and the results are included in **Table 3**.

- PB0372--There were no surface water sources identified at this property.
- PB0418- There were no surface water sources identified at this property used to produce agricultural products. The Little Hoosic River is adjacent to this property and has been extensively sampled during other phases of the RI. The results from these samples are not included in this report as this water source is not associated with the agricultural products on the property.
- PB0423- There were no surface water sources identified at this property.

Additional soil samples were not collected at three of the properties for the following reasons:

- For the property where beef and syrup samples were collected, there are existing RI Phase 2a results for surface soil, sediment, and surface water as shown in **Table 3**.
- For one property where an egg sample was collected, there are existing RI Phase 2a results for surface soil shown in **Table 3**.
- For one property where an egg sample was collected, as reported by the property owner, the chickens are raised in a coop built over imported fill and mulch.

Also included within **Table 3** are soil and surface water results for samples collected during earlier phases of the RI (Phase 2a) at properties where agricultural products were sampled during this Phase 2b. The nature of these locations collected in 2020 and 2021 are described in the headings in Table 3 as follows:

- **Garden Soil**-The surface soil sample was collected within the active garden area.
- **Yard Soil**-The surface soil sample was collected within the yard/lawn area of the property.
- **Surface Soil**-The surface soil sample was collected in undisturbed areas of the property, free from obvious signs of recent human disturbance.
- **Woods Soil**-The surface soil sample was collected in undisturbed wooded areas. If associated with a property with a syrup sample, the soil sample was collected in the area where maple trees had been previously tapped.

The surface soil data set included in Table 3 is limited to samples collected in at depths of 0"-2" and 2"-12" since these are the sample intervals most likely to impact the agricultural samples of this investigation. For some properties in Table 3, deeper soil samples, up to 24"-deep, were collected and analyzed in 2020 and 2021. This data has been reported in the Phase 1 and Phase 2a Interim Data Deliverable Reports.

2.3 Decontamination Procedures

Disposable sampling equipment was used whenever possible to reduce the potential for cross contamination between sample locations. When it was necessary for non-disposable equipment to be used (stainless steel bowls, scoops, and hand auger during soil sampling, stainless steel bowls and scoops during sediment sampling, and stainless-steel surface water scoops during surface water sampling), equipment was decontaminated in between collection of each sample. Decontamination consisted of spraying sample equipment with a solution of PFAS-free bottled water and Alconox detergent, scrubbing of equipment using disposable paper towels, and rinsing with PFAS-free bottled water. Equipment blanks were collected daily from decontaminated non-disposable sampling supplies to ensure the effectiveness of decontamination procedures.

3.0 DISCUSSION

The Phase 2b investigation was completed to support the Qualitative Human Health Exposure Assessment (QHHEA). The requirements for the QHHEA are consistent with NYSDEC DER-10 Appendix 3B and outlined in the QHHEA scope of work approved by NYSDEC and NYSDOH, dated June 7, 2022, in **Appendix A**. The purpose of the QHHEA is to evaluate and document how people might be exposed to site-related contaminants and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site.

The QHHEA Scope of Work identified the following potential pathways and recommended additional evaluation and data collection (see Table 1-Exposure Assessment in **Appendix A**):

- Ingestion of Maple Syrup
- Gardening with the ingestion of produce and direct contact with soil;
- Ingestion of livestock, chickens, and milk; and,
- Ingestion of fish*.

*Taconic has prepared a Work Plan to address the potential exposure pathway related to the ingestion of fish from the Little Hoosic River. This Work Plan is under review by the NYSDEC and NYSDOH and will be implemented once approved. The data from the fish sampling effort will be evaluated within QHHEA.

As described in the approved Work Plan, this Phase 2b investigation was implemented to collect data on the range of concentration of COPCs in the following local agricultural products as may be available in the vicinity of the Site:

- Fruits and vegetables
- Maple syrup
- Eggs
- Milk**; and,
- Beef and chicken** meat.

**There were no participants in the vicinity of the site producing milk or chicken meat, so these products were not sampled as part of Phase 2b.

As described the Work Plan, the objectives of the Phase 2b RI are the following:

- Collect data necessary to evaluate if pathways related to consumption of local agricultural products are potentially complete; and,
- Identify additional data that may be needed to support the completion of the QHHEA related to consumption of local agricultural products.

The data collected during the Phase 2b investigation, as summarized in this report, indicates that COPCs related to the Site were detected in some local agricultural products, indicating this pathway is potentially complete. A more thorough evaluation of this data is underway and this evaluation will be presented in the QHHEA portion of the RI Report, including recommendations for additional data collection, if needed. Consistent with the Scope of Work, the QHHEA portion of the RI report will include the following:

- Review of analytical results for surface water, sediment, groundwater, surface and subsurface soils, agricultural products and fish tissue. This will include assessment of the quality, representativeness and adequacy of the available data to ensure it meets data quality objectives and is appropriate for the evaluation of human exposures

- An uncertainty assessment to consider factors that may influence analytical results such as:
 - Background/ubiquitous concentrations of PFAS in the vicinity of the Site;
 - Other potential sources of PFAS in the vicinity of the Site;
 - Potential cross-contamination of samples during collection and handling;
 - Analytical precision and accuracy; and
 - Representativeness of the sampling plan;
- Exposure assessment evaluation which includes:
 - A description of the contaminant source(s) including the location of the contaminant release to the environment (any waste disposal area or point of discharge) or if the original source is unknown, the contaminated environmental medium (soil, indoor or outdoor air, biota, water) at the point of exposure;
 - An explanation of the contaminant release and transport mechanisms to the exposed population;
 - Identification of reasonably ascertainable potential exposure point(s) where actual potential human contact with a contaminated medium may occur;
 - Description(s) of the route(s) of exposure (i.e., ingestion, inhalation, dermal absorption including but not limited to direct contact with soil, potable water exposures, exposures through ingestion of food such as maple syrup, exposures through gardening in impacted soil, exposures via ingestion of livestock exposed to PFAS, ingestion of fish and exposures via swimming);
 - A characterization of the receptor populations who may be exposed to contaminants at a point of exposure; and
 - A qualitative review of the effectiveness of on-going Interim Remedial Measures (i.e. public water treatment, residential POET systems, and residential water monitoring programs) in mitigating human exposures.

All documentation and results of the QHHEA including a summary table as described in Appendix 3B of the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, will be submitted to the NYSDEC for review and comment.

4.0 REFERENCES

NYSDEC 2010. *DER-10/Technical Guidance for Site Investigation and Remediation*. May 3.

NYSDEC 2020. *Guidelines for Sampling and Analysis of PFAS*. January.

OBG 2018. *Remedial Investigation/Feasibility Study Work Plan, Taconic Site, NYSDEC Site No. 442047*. April.

Parsons 2020. *Interim Investigation Deliverable*. February

Parsons 2022a. *Supplemental Work Plan, Phase 2b Remedial Investigation*. March

Parsons 2022b. *Phase 2a Interim Investigation Deliverable*. August

USEPA. 2018. *Exposure Factors Handbook Chapter 9. Intake of Fruits and Vegetables*. August.

VTDEC. 2016. Lab Results from Maple Syrup Testing Analysis.

https://dec.vermont.gov/sites/dec/files/co/pfoa/documents/Maple.syrup_.results.N.Benn_.pdf

FIGURES

TABLES

TABLE 1
TACONIC (442047)
QHHEA Agricultural Response

10/10/2024

DEC Property ID	Max Pre/Raw PFOA (ppt)	POET Installed?	Vegetables Grown?	Fruit Grown?	Meat Raised?	Eggs Produced?	Milk/Dairy Produced?	Syrup Produced?	Other Products?
PB0103	94	Yes							
PB0105	0	Yes							
PB0115	64	Yes							
PB0119	91	Yes	Yes	Yes berries					
PB0129	18	Yes							
PB0145	27								
PB0175	64	Yes							
PB0209	120	Yes	Yes	Yes	Yes	Yes	Yes		
PB0212	5		Yes	horseradish					
PB0221	140	Yes	Yes	asparagus, rhubarb					
PB0222	710	Yes	Yes	Yes		Yes		Yes	
PB0226	3900	Yes							
PB0227	0								
PB0230	0								
PB0233	130	Yes							
PB0238	3		Yes	Yes					
PB0239	2		Yes	lettuce, tomatoes, peppers, garlic, beans				Yes	mushrooms
PB0245	45	Yes	Yes	greens, roots, tomatoes, cucumbers, asparagus	apples, berries				hops, nettles
PB0247	2100	Yes	Yes	tomatoes, spinach, parsley	peaches, apples, pears				
PB0248	1600	Yes							
PB0249	2100	Yes	Yes	corn, beans, potatoes, garlic, greens, beets, carrots	apples				
PB0252	820	Yes	Yes		Yes			Yes	
PB0260	0	Yes	Yes	tomatoes	Yes	berries, jam			
PB0261	4		Yes						eggs and syrup from neighbor
PB0262	0		Yes		Yes			Yes	
PB0279	0		Yes	lettuce, onions, tomatoes	Yes	rasberries, currants, nectarines			
PB0280	48		Yes					Yes	
PB0320	0		Yes	tomatoes, etc.					
PB0332	790	Yes							soil and river water
PB0346	0								
PB0350	390	Yes	Yes						herbs, spices
PB0351	110	Yes		Yes	blueberries				
PB0355	180	Yes	Yes	Yes		Yes			
PB0362	0		Yes	Yes	Yes	Yes			
PB0363	400	Yes							
PB0364	560	Yes			Yes	beef		Yes	
PB0371	550	Yes							
PB0372	110	Yes	Yes	tomatoes, peas, beans			Yes		
PB0375	39	Yes	Yes		Yes	Yes		Yes	
PB0379	0								
PB0381	0			Yes	black berries, strawberries				
PB0386	5		Yes	Yes					
PB0418	0		Yes	greens, pumpkins, peppers, onions, herbs, broccoli, asparagus, squash, beets, tomatoes, lettuce	Yes	berries			
PB0423	7	Yes	Yes	corn, tomatoes, lettuce, beets	Yes	apples	Yes	Yes	
PB0436	0		Yes	tomatoes, potatoes, greens, cucumbers, beans, squash	Yes	apples	Yes	rabbit	
PB0439	220	Yes		Yes	apples, pears, peaches, cherries, berries				cider
PB0447	270	Yes	Yes	deer ate crop	Yes	no fruit this year			
PB0448	51	Yes							
PB0462	17	Yes							
PB0463	0								
PB0464	0								
PB0476	0		Yes	various	Yes	peaches	Yes		wild greens, mushrooms
PB0526	160	Yes	Yes	various				Yes	
Totals			29		21	6	8	1	9

TABLE 2
Taconic (442047)
Agricultural Products Sampling Summary

Sample ID	Location	Type	MS/MSD	Sample Date	Sample Time	Matrix	PB #
Ag-Sy1-070523	Sy1	N		7/5/2023	1600	Syrup	PB0364
Ag-Eg1-070623	Eg1	N		7/6/2023	1300	Egg	PB0000
Ag-Eg2-070623	Eg2	N		7/6/2023	1330	Egg	PB0222
Ag-Bf1-070723	Bf1	N		7/7/2023	1000	Beef	PB0364
X1-070723	Bf1	FD		7/7/2023	1000	Beef	PB0364
Ag-Fr1-082523	Fr1	N		8/25/2023	1030	Raspberry	PB0245
Ag-Fr2-082523	Fr2	N		8/25/2023	1030	Gooseberry	PB0245
Ag-Vg1-082523	Vg1	N		8/25/2023	1030	Wild Kale	PB0245
Ag-Vg2-082523	Vg2	N		8/25/2023	1015	Leeks	PB0245
Ag-Fr3-082523	Fr3	N		8/25/2023	1000	Apples	PB0245
Ag-Vg3-082423	Vg3	N		8/24/2023	1330	Beets	PB0418
Ag-Vg4-082423	Vg4	N		8/24/2023	1330	Beet Greens	PB0418
Ag-Vg5-082423	Vg5	N	X	8/24/2023	1335	Squash-Spag.	PB0418
Ag-Vg6-082423	Vg6	N		8/24/2023	1340	Pepper	PB0418
Ag-Vg7-082423	Vg7	N		8/24/2023	1345	Mustard Greens	PB0418
Ag-Vg8-082423	Vg8	N		8/24/2023	1350	Tomatoes	PB0418
Ag-Fr3-082523	Fr9	N		8/24/2023	1355	Blueberry	PB0418
X2-082423	Vg7	FD		8/24/2023	1345	Mustard Greens	PB0418
Ag-Fr4-082423	Fr4	N		8/24/2023	1030	Apples	PB0247
Ag-Fr5-082423	Fr5	N		8/24/2023	1035	Pears	PB0247
Ag-Fr6-082423	Fr6	N		8/24/2023	1040	Grapes	PB0247
Ag-Vg9-082423	Vg9	N		8/24/2023	1015	Tomatoes	PB0247
Ag-Vg10-082423	Vg10	N		8/24/2023	1500	Beans	PB0249
Ag-Vg11-082423	Vg11	N		8/24/2023	1505	Tomatoes	PB0249
Ag-Vg12-082423	Vg12	N		8/24/2023	1510	Garlic	PB0249
Ag-Vg13-082423	Vg13	N	X	8/24/2023	1515	Potato	PB0249
Ag-Vg14-082423	Vg14	N		8/24/2023	1520	Chard	PB0249
Ag-Vg15-082423	Vg15	N		8/24/2023	1525	Cucumber	PB0249
Ag-Fr7-082423	Fr7	N		8/24/2023	1530	Apples	PB0249
Ag-Vg16-082423	Vg16	N		8/24/2023	1535	Broccoli	PB0249
Ag-Vg17-082423	Vg17	N		8/24/2023	1540	Squash	PB0249
X3-082423	Vg13	FD		8/24/2023	1515	Potato	PB0249
Ag-Vg18-082423	Vg17	N		8/24/2023	1300	Rhubarb	PB0352
Ag-Fr8-082423	Fr8	N		8/24/2023	1315	Blueberries	PB0352
Ag-Vg19-082423	Vg19	N		8/24/2023	1310	Bee Balm	PB0352
Ag-Sy2-092823	Sy2	N		9/28/2023	0925	Syrup	PB0239
Ag-Eg3-092823	Eg3	N		9/28/2023	0930	Eggs	PB0423
Ag-Eg4-092823	Eg4	N		9/28/2023	0940	Eggs	PB0372
Ag-Eg1-111623	Eg1	N		11/15/2023	1000	Eggs	PB0000
Ag-Eg1W-111623	Eg1	N		11/15/2023	1000	Egg-Shell Washed	PB0000
Ag-Eg5-110123	Eg5	N		11/1/2023	1415	Eggs	PB0362

Agricultural Products	Work Plan Target Samples	Samples Collected	Comments
Fruits and Vegetables	15-20	28	
Syrup	2	2	
Eggs	3	7	
Milk	2	0	No milk producers responded
Beef	2	1	Only 1 beef producer responded
Chicken	2	0	No chicken producers identified

TABLE 3a (PB000)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0000					
	Agricultural Product	Eggs		Eggs		Garden Soil	
	Sample Depth	Eggs		Eggs		Garden Soil	
	Sample Date Units	Eggs		Eggs		Garden Soil	
CAS Rn		Eg1 AG-Eg1- 070623 07/06/2023 (ng/g)	Eg1 Ag-Eg1- 111523 11/15/2023 (ng/g)	Eg1 Ag-Eg1W- 111523 11/15/2023 (ng/g)	SS-73 SS-73-0-2- 102423 10/24/2023 (ng/g)	SS-73 SS-73-2-12- 102423 10/24/2023 (ng/g)	SS-74 SS-74-0-2- 102423 10/24/2023 (ng/g)
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	2 U	2 U	2 U	0.79 U	0.8 U	0.8 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	4.9 U	4.9 U	4.9 U	2 U	2 U	2 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	4.9 U	4.9 U	4.9 U	2 U	2 U	2 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	12 U	12 U	12 U	5 U	5 U	5 UT
3-Perfluoroheptyl propanoic acid	812-70-4	12 U	12 U	12 U	5 U	5 U	5 UT
3-Perfluoropropyl propanoic acid	356-02-5	2.5 U	2.4 U	2.5 U	0.99 UT	1 UT	1 UT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	2 U	2 U	2 U	0.79 U	0.8 U	0.8 U
6:2-Fluorotelomersulfonic acid	27619-97-2	3 U	2.9 U	2.9 U	0.99 U	1 U	1 U
8:2-Fluorotelomersulfonic acid	39108-34-4	2 U	2 U	2 U	0.99 U	1 U	1 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	2 U	2 U	2 U	0.79 U	0.8 U	0.8 U
NEtFOSA	2991-50-6	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
NMeFOSA	2355-31-9	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.99 U	0.98 U	0.98 U	0.4 U	0.4 U	0.4 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.99 U	0.98 U	0.98 U	0.4 U	0.4 U	0.4 UT
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	2 U	2 U	2 U	0.79 U	0.8 U	0.8 U
Perfluoro-3-methoxypropanoic acid	377-73-1	0.99 U	0.98 U	0.98 U	0.4 U	0.4 U	0.4 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.99 U	0.98 U	0.98 U	0.4 UT	0.4 UT	0.4 UT
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorobutanoic Acid (PFBA)	375-22-4	2 U	2 U	2 U	0.79 U	0.8 U	0.8 U
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.24 J	0.49 U	0.49 U	0.2	0.2 U	0.098 J
Perfluorododecane sulfonate (PFDoS)	79780-39-5	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.25 J	0.49 U	0.49 U	0.11 J	0.2 U	0.06 J
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.49 U	0.49 U	0.49 U	0.053 J	0.07 J	0.2 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.49 U	0.49 U	0.49 U	0.2 U	0.065 EMPC	0.2 UT
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorononanoic acid (PFNA)	375-95-1	0.16 J	0.49 U	0.49 U	0.29 EMPC	0.21 T	0.15 J
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.49 U	1	1.2 T	0.67	0.29	0.3
Perfluorooctanoic acid (PFOA)	335-67-1	0.24 J	0.49 U	0.49 U	0.44	1	0.17 J
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.49 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.99 U	0.98 U	0.98 U	0.4 U	0.4 U	0.4 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	4.9 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	4.9 U	0.49 U	0.49 R	0.065 J	0.2 U	0.2 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.33 J	0.49 U	0.49 U	0.23	0.2 U	0.12 J
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	2 U	2 U	2 U	0.79 U	0.8 U	0.8 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environment.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.

TABLE 3b (PB0222)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID		PB0222	
	Agricultural Product	Eggs	Coup Soil	
	Sample Depth		0-2"	2-12"
	Sample Date Units	Eg2 AG-Eg2- 070623 07/06/2023 (ng/g)	SS-75 SS-75-0-2- 102523 10/25/2023 (ng/g)	SS-75 SS-75-2-12- 102523 10/25/2023 (ng/g)
CAS Rn				
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	2 U	0.8 U	0.8 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	5 U	2 U	2 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	5 U	2 U	2 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	13 U	5 U	5 U
3-Perfluoroheptyl propanoic acid	812-70-4	13 U	5 U	5 U
3-Perfluoropropyl propanoic acid	356-02-5	2.5 U	0.99 U	1 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	2 U	0.8 U	0.8 U
6:2-Fluorotelomersulfonic acid	27619-97-2	3 U	0.99 U	1 U
8:2-Fluorotelomersulfonic acid	39108-34-4	2 U	0.99 U	1 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	2 U	0.8 U	0.8 U
NEtFOSA	2991-50-6	0.5 U	0.2 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.5 U	0.2 U	0.2 U
NMeFOSA	2355-31-9	0.5 U	0.2 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.5 U	0.2 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	1 U	0.4 U	0.4 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	1 U	0.4 U	0.4 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	2 U	0.8 U	0.8 U
Perfluoro-3-methoxypropanoic acid	377-73-1	1 U	0.4 U	0.4 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	1 U	0.4 U	0.4 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.5 U	0.2 U	0.2 U
Perfluorobutanoic Acid (PFBA)	375-22-4	2 U	0.18 J	0.39 J
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.5 U	0.2 U	0.2 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.5 U	2.7 J+	2.5 J+
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.5 U	0.2 U	0.2 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.5 U	1.6 J+	1.2 J+
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.5 U	0.2 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 U	0.21	0.33
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.5 U	0.2 U	0.2 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 U	0.12 J	0.35
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.5 U	0.2 U	0.2 U
Perfluorononanoic acid (PFNA)	375-95-1	0.5 U	1.5 T	2.2 T
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.5 U	0.2 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.5 U	0.86	0.88
Perfluorooctanoic acid (PFOA)	335-67-1	0.5 U	3.4 J+	7.5
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5 U	0.2 U	0.2 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1 U	0.17 J	0.61
Perfluorotetradecanoic acid (PFTA)	376-06-7	5 U	0.72	----
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	5 U	1.2	0.72
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5 U	2.9	2.2
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	2 U	0.8 U	0.8 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurof.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL).
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "+" indicates result listed is biased high.

x.xx Detected above Method Detection Limit

TABLE 3c (PB0239)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID		PB0239	
	Agricultural Product	Syrup	Woods Soil	
	Sample Depth		0-2"	2-12"
	Sample Date Units	Sy2 Ag-Sy2-09823 09/28/2023 (ng/g)	SS-71 SS-71-0-2- 102723 10/27/2023 (ng/g)	SS-71 SS-71-2-12- 102723 10/27/2023 (ng/g)
CAS Rn				
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	0.81 U	0.82 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	2 U	2.1 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	2 U	2.1 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 UT	5.1 U	5.1 U
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 U	5.1 U	5.1 U
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	1 U	1 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	0.81 U	0.82 U
6:2-Fluorotelomersulfonic acid	27619-97-2	0.2 U	1 U	1 U
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	1 U	1 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	0.81 U	0.82 U
NETFOSA	2991-50-6	0.2 U	0.2 U	0.21 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.2 U	0.21 U
NMeFOSA	2355-31-9	0.2 U	0.2 U	0.21 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.2 U	0.21 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.06 U	0.4 U	0.41 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.048 J	0.4 U	0.41 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	0.81 U	0.82 U
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.4 U	0.41 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 U	0.4 U	0.41 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.2 U	0.21 U
Perfluorobutanoic Acid (PFBA)	375-22-4	0.2 U	0.83	0.76 J
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.2 U	0.21 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.46	0.22
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.2 U	0.2 U	0.21 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.25	0.076 J
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.06 U	0.2 U	0.21 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.37	1.3
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.2 U	0.21 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.28	0.83
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.2 U	0.21 U
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.54	0.57
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.06 U	0.2 U	0.21 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.65	0.58
Perfluorooctanoic acid (PFOA)	335-67-1	0.06 U	2.6	14
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.2 U	0.21 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.29 J	0.52
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.099 J	----
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.06 U	0.19 J	0.073 J
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.52	0.13 J
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	0.81 U	0.82 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurof.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL).
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "+" indicates result listed is biased high.

x.xx Detected above Method Detection Limit

TABLE 3d (PB0245)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0245												
	Agricultural Product	Raspberry	Gooseberry	Apple	Wild Kale	Leek	Garden Soil		Woods Soil		Yard Soil		Garden Soil	
	Sample Depth						0-2"	2-12"	0-2"	2-12"	0-2"	2-12"	0-2"	2-12"
	Location Sample ID	Fr1 Ag-Fr1- 082523	Fr2 Ag-Fr2- 082523	Fr3 Ag-Fr3- 082423	Vg1 Ag-Vg1- 082523	Vg2 Ag-Vg2- 082523	SS-84 SS-84-0-2- 102423	SS-84 SS-84-2-12- 102423	SS-48 SS-48-2-12- 48a_12202021	SS-48 SS-48-2-12- 48b_12202021	SS-62 SS-62-12202021	SS-62 SS-62-12202021	SS-63 SS-63-12202021	SS-63 SS-63-12202021
	Sample Date Units	08/25/2023 (ng/g)	08/25/2023 (ng/g)	08/24/2023 (ng/g)	08/25/2023 (ng/g)	08/25/2023 (ng/g)	10/24/2023 (ng/g)	10/24/2023 (ng/g)	12/20/2021 (ng/g)	12/20/2021 (ng/g)	12/20/2021 (ng/g)	12/20/2021 (ng/g)	12/20/2021 (ng/g)	12/20/2021 (ng/g)
CAS Rn														
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	0.059 U	0.06 U	2 U	2 U	0.8 U	0.8 U						
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	0.2 U	0.2 U	5 U	4.9 U	2 U	2 U						
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	0.2 U	0.2 U	5 U	4.9 U	2 U	2 U						
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 U	0.059 U	0.06 U	12 U	12 U	5 U	5 U						
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 UT	0.059 UT	0.06 UT	12 U	12 U	5 U	5 U						
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	0.059 UT	0.06 UT	2.5 UT	2.5 UT	0.99 UT	1 UT						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	0.3 U	0.3 U	2 U	2 U	0.8 U	0.8 U						
6:2-Fluoroteleomersulfonic acid	27619-97-2	0.2 U	0.2 U	0.2 U	30 U	30 U	0.99 U	1 U	2.7 U	2.3 U	2.6 U	2.5 U	2.8 U	2.7 U
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	0.3 U	0.3 U	2 U	20 U	0.99 U	1 U	4 U	3.5 U	3.9 U	3.7 U	4.3 U	4 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	0.2 U	0.2 U	2 U	2 U	0.8 U	0.8 U						
NEtFOSA	2991-50-6	0.2 U	0.2 U	0.2 U	0.5 U	0.49 U	0.2 U	0.2 U	2.7 U	2.3 U	2.6 U	2.5 U	2.8 U	2.7 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.2 U	0.2 U	0.5 U	0.49 U	0.2 U	0.2 U						
NMeFOSA	2355-31-9	0.2 U	0.2 U	0.2 U	0.5 U	0.49 U	0.2 U	0.2 U	2.7 U	2.3 U	2.6 U	2.5 U	2.8 U	2.7 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.2 U	0.2 U	0.11 J	0.49 U	0.2 U	0.2 U						
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.06 U	0.059 U	0.06 U	0.99 U	0.99 U	0.4 U	0.4 U						
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.06 U	0.059 U	0.06 U	0.99 U	0.99 U	0.4 U	0.4 U						
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	0.2 U	0.2 U	2 U	2 U	0.8 U	0.8 U						
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.059 U	0.06 U	0.99 U	0.99 U	0.4 U	0.4 U						
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 U	0.059 U	0.06 U	0.99 U	0.99 U	0.4 UT	0.4 UT						
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.2 U	0.2 U	0.5 U	0.49 U	0.2 U	0.2 U	2.7 U	2.3 U	2.6 U	2.5 U	2.8 U	2.7 U
Perfluorobutanoic Acid (PFBA)	375-22-4	0.2 U	0.2 U	0.2 U	2 U	2 R	0.15 J	0.16 J	2.7 U	2.3 U	2.6 U	2.5 U	2.8 U	2.7 U
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.2 U	0.2 U	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.34	0.23	0.86	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.2 U	0.2 U	0.2 U	0.5 U	0.49 U	0.2 U	0.2 U						
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.16 J	0.086 J	0.46 J	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.06 U	0.059 U	0.06 U	0.2 EMPC	0.49 U	0.2 U	0.2 U	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.16 J	0.17 J	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.059 U	0.06 U	0.12 EMPC	0.49 U	0.2 U	0.2 U	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.19 J	0.26	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.2 U	0.2 U						
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.41 T	0.52 T	0.47 J	0.43 J	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.2 U	0.2 U	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.059 U	0.06 U	0.5 U	0.26 EMPC	0.61	0.43	0.71 J	0.69 U	0.35 J	0.4 J	0.42 J	0.39 J
Perfluorooctanoic acid (PFOA)	335-67-1	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	1.1	2.6	2	3.1	1	2.2	2.2	2.6
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.059 U	0.06 U	0.5 U	0.29 EMPC	0.2 U	0.2 U						
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.059 U	0.06 U	0.99 U	0.99 U	0.14 J	0.18 J	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.059 U	-----	0.5 U	0.49 U	0.058 J	0.2 U	0.8 U	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluorotridecanoic acid (PFTrIA)	72629-94-8	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.089 J	0.07 J	0.35 J	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.059 U	0.06 U	0.5 U	0.49 U	0.31	0.21	1	0.69 U	0.77 U	0.74 U	0.85 U	0.8 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	0.2 U	0.2 U	2 U	20 U	0.8 U	0.8 U						

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- x.xx Detected above Method Detection Limit

TABLE 3e (PB0247)
Taonic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0247							
	Agricultural Product	Apple	Pear	Grape	Tomato	Garden Soil		Garden Soil	
	Sample Depth					0-2"	2-12"	0-2"	2-12"
	Sample Date Units CAS Rn	Fr4 Ag-Fr4- 082423 08/24/2023 (ng/g)	Fr5 Ag-Fr5- 082423 08/24/2023 (ng/g)	Fr6 Ag-Fr6- 082423 08/24/2023 (ng/g)	Vg9 Ag-Vg9- 082423 08/24/2023 (ng/g)	SS-82 SS-82-0-2- 102423 10/24/2023 (ng/g)	SS-82 SS-82-2-12- 102423 10/24/2023 (ng/g)	SS-83 SS-83-0-2- 102423 10/24/2023 (ng/g)	SS-83 SS-83-2-12- 102423 10/24/2023 (ng/g)
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	0.059 U	0.06 U	1.9 U	0.8 U	0.8 U	0.8 U	0.8 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	0.2 U	0.2 U	4.8 U	2 U	2 U	2 U	2 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	0.2 U	0.2 U	4.8 U	2 U	2 U	2 U	2 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 U	0.059 U	0.06 U	12 U	5 U	5 U	5 U	5 U
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 UT	0.059 UT	0.06 UT	12 U	5 U	5 U	5 U	5 U
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	0.059 UT	0.06 UT	2.4 UT	1 UT	0.99 UT	1 UT	1 UT
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	0.3 U	0.3 U	1.9 U	0.8 U	0.8 U	0.8 U	0.8 U
6:2-Fluoroteleomersulfonic acid	27619-97-2	0.2 U	0.2 U	0.2 U	29 U	1 U	0.99 U	1 U	1 U
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	0.3 U	0.3 U	1.9 U	1 U	0.99 U	1 U	1 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	0.2 U	0.2 U	1.9 U	0.8 U	0.8 U	0.8 U	0.8 U
NetFOSA	2991-50-6	0.2 U	0.2 U	0.2 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.2 U	0.2 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
NMeFOSA	2355-31-9	0.2 U	0.2 U	0.2 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.2 U	0.2 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Nonafluoro-3,6-dioxahexanoic acid	151772-58-6	0.06 U	0.059 U	0.06 U	0.96 U	0.4 U	0.4 U	0.4 U	0.4 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.06 U	0.059 U	0.06 U	0.96 U	0.4 U	0.4 U	0.4 U	0.4 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	0.2 U	0.2 U	1.9 U	0.8 U	0.8 U	0.8 U	0.8 U
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.059 U	0.06 U	0.96 UT	0.4 U	0.4 U	0.4 U	0.4 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 U	0.059 U	0.06 U	0.96 U	0.4 UT	0.4 UT	0.4 UT	0.4 UT
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.2 U	0.2 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorobutanoic Acid (PFBA)	375-22-4	0.2 U	0.11 J	0.2 U	1.9 U	0.28 J	0.19 J	1.4	1.4
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.059 U	0.06 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.059 U	0.06 U	0.48 U	1.4	0.68	4.5	1.8
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.2 U	0.2 U	0.2 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.059 U	0.06 U	0.48 U	0.6	0.31	2.9	1.1
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.06 U	0.059 U	0.06 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.059 U	0.06 U	0.48 U	0.15 J	0.14 EMPC	0.51	0.99
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.059 U	0.06 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.059 U	0.06 U	0.48 U	0.17 J	0.13 J	0.72	1.3
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.059 U	0.06 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.059 U	0.06 U	0.48 U	1 T	0.8 T	1.7 T	3.5 J+
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.06 U	0.059 U	0.06 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.059 U	0.06 U	0.48 U	0.51	0.31	1.3	1.1
Perfluorooctanoic acid (PFOA)	335-67-1	0.06 U	0.028 J	0.026 J	0.48 U	1.2	1.3	4.8	11
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.059 U	0.06 U	0.48 U	0.2 U	0.2 U	0.2 U	0.2 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.021 J	0.025 J	0.96 U	0.18 J	0.18 J	1	1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.059 U	----	0.48 U	0.2	0.15 J	1.4	0.62
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.06 U	0.059 U	0.06 U	0.48 U	0.35	0.18 J	1.9	0.78
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.059 U	0.06 U	0.48 U	1.2	0.55	4.8	1.6
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	0.2 U	0.2 U	19 U	0.8 U	0.8 U	0.8 U	0.8 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environmental, LLC of Lancaster.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "+" indicates result listed is biased high.

x.xx Detected above Method Detection Limit

TABLE 3f (PB0249)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	CAS Rn	PB0249																			
		Property ID		Agricultural Product										Garden Soil				Garden Soil		Orchard Soil	
		Sample Depth	Apple	Beans	Tomato	Garlic	Potato	Potato	Chard	Cucumber	Broccoli	Squash	0-2"	2-12"	0-2"	2-12"	0-2"	2-12"			
		Location	Fr7	Vg10	Vg11	Vg12	Vg13	Vg13	Vg14	Vg15	Vg16	Vg17	SS-79	SS-79	SS-80	SS-80	SS-81	SS-81			
		Sample ID	Ag-Fr7-082423	Ag-Vg10-082423	Ag-Vg11-082423	Ag-Vg12-082423	Ag-Vg13-082423	X3-082423	Ag-Vg14-082423	Ag-Vg15-082423	Ag-Vg16-082423	Ag-Vg17-082423	SS-79-0-2-102423	SS-79-2-12-102423	SS-80-0-2-102423	SS-80-2-12-102423	SS-81-0-2-102423	SS-81-2-12-102423			
Sample Date	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	08/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023				
Units	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)	(ng/g)				
Chemical Name																					
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	2 U	2 U	2 U	1.9 U	1.9 U	2 U	2 U	1.9 U	2 U	0.79 U	0.8 U	0.8 U	0.79 U	0.8 U	0.79 U				
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	5 U	4.9 U	5 U	4.8 U	4.8 U	5 U	5 U	4.9 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U				
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	5 U	4.9 U	5 U	4.8 U	4.8 U	5 U	5 U	4.9 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U				
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	5 U	5 U	5 U	4.9 U	5 U	5 U				
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 UT	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	5 U	5 U	5 U	4.9 U	5 U	5 U				
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	2.5 UT	2.5 UT	2.5 UT	2.4 UT	2.4 UT	2.5 UT	2.5 UT	2.4 UT	2.5 UT	0.99 UT	1 UT	0.99 UT	0.99 UT	1 UT	0.99 UT				
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	2 U	2 U	2 U	1.9 U	1.9 U	2 U	2 U	1.9 U	2 U	0.79 U	0.8 U	0.8 U	0.79 U	0.8 U	0.79 U				
6:2-Fluoroteleomersulfonic acid	27619-97-2	0.2 U	30 U	29 U	3 U	29 U	29 U	30 U	3 U	29 U	30 U	0.99 U	1 U	0.99 U	0.99 U	1 U	0.99 U				
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	20 U	20 U	20 U	1.9 U	1.9 U	20 U	20 U	19 U	20 U	0.99 U	1 U	0.99 U	0.99 U	1 U	0.99 U				
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	2 U	2 U	2 U	1.9 U	1.9 U	2 U	2 U	1.9 U	2 U	0.79 U	0.8 U	0.8 U	0.79 U	0.8 U	0.79 U				
NETFOSA	2991-50-6	0.2 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
NMeFOSA	2355-31-9	0.2 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.06 U	0.99 U	0.98 U	1 U	0.96 UT	0.96 U	0.99 U	1 U	0.97 U	0.99 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U				
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.06 U	0.99 U	0.98 U	1 U	0.96 U	0.96 U	0.99 U	1 U	0.97 U	0.99 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U				
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	2 U	2 U	2 U	1.9 U	1.9 U	2 U	2 U	1.9 U	2 U	0.79 U	0.8 U	0.8 U	0.79 U	0.8 U	0.79 U				
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.99 UT	0.98 UT	1 UT	0.96 UT	0.96 UT	0.14 JT	1 UT	0.97 UT	0.99 UT	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U				
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 U	0.99 U	0.98 U	1 U	0.96 UT	0.96 U	0.99 U	1 U	0.97 U	0.99 U	0.4 UT	0.4 UT	0.4 UT	0.4 UT	0.4 UT	0.4 UT				
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluorobutanoic acid (PFBA)	375-22-4	0.2 U	2 U	0.4 J	1.8 J	1.9 U	1.9 R	1.1 J	2 U	1.9 U	2 U	0.11 J	0.15 J	0.12 J	0.15 J	0.96	0.7 J				
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.69	0.88	0.61	0.43	2.1	0.92				
Perfluorododecane sulfonate (PFDoS)	79780-39-5	0.2 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.34	0.4	0.3	0.23	0.88	0.42				
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.11 J	0.13 J	0.078 J	0.14 J	0.53	0.26				
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.077 EMPC	0.18 J	0.073 EMPC	0.16 EMPC	0.42	0.38				
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.76 T	0.83 T	0.74 T	0.78 T	2 T	1.9 T				
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.63	0.79	0.52	0.45	0.72	0.44				
Perfluorooctanoic acid (PFOA)	335-67-1	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	1.9	2.4	2.8	3.6	4.6	4.1				
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.99 U	0.98 U	1 U	0.96 U	0.96 U	0.99 U	1 U	0.97 U	0.99 U	0.4 U	0.14 EMPC	0.4 U	0.2 J	1	1.1 T				
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.5 U	-----	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.16 J	0.15 J	0.14 J	0.12 J	0.32	0.19 J				
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.21	0.24	0.21	0.17 J	0.6	0.31				
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.5 U	0.49 U	0.5 U	0.48 U	0.48 U	0.5 U	0.5 U	0.49 U	0.5 U	0.62	0.73	0.56	0.38	2	0.76				
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	2 U	20 U	2 U	19 U	19 U	20 U	20 U	19 U	20 U	0.79 U	0.8 U	0.8 U	0.79 U	0.8 U	0.79 U				

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- xx Detected above Method Detection Limit

TABLE 3g (PB0352)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0352					
	Agricultural Product	Rhubarb	Blueberry	Bee Balm	Garden Soil		
	Sample Depth				0-2"	0-2"	2-12"
	Sample Date Units	Fr8 Ag-Fr8- 082423 08/24/2023 (ng/g)	Vg18 Ag-Vg18- 082423 08/24/2023 (ng/g)	Vg19 Ag-Vg19- 082423 08/24/2023 (ng/g)	SS-76 SS-76-0-2- 102523 10/25/2023 (ng/g)	SS-76 SS-FD-102523 10/25/2023 (ng/g)	SS-76 SS-76-2-12- 102523 10/25/2023 (ng/g)
CAS Rn							
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	1.9 U	1.9 U	0.8 U	0.8 U	0.8 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	4.9 U	4.9 U	2 U	2 U	2 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	4.9 U	4.9 U	2 U	2 U	2 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 U	12 U	12 U	5 U	5 U	5 U
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 UT	12 U	12 U	5 U	5 U	5 U
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	2.4 UT	2.4 UT	1 U	1 U	1 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	1.9 U	1.9 U	0.8 U	0.8 U	0.8 U
6:2-Fluoroteleomersulfonic acid	27619-97-2	0.2 U	2.9 U	29 U	1 U	1 U	1 U
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	1.9 U	19 U	1 U	1 U	1 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	1.9 U	1.9 U	0.8 U	0.8 U	0.8 U
NETFOSA	2991-50-6	0.2 U	0.49 UJ	0.49 U	0.2 U	0.2 U	0.2 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
NMeFOSA	2355-31-9	0.2 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.06 U	0.97 U	0.97 U	0.4 U	0.4 U	0.4 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.06 U	0.97 U	0.97 U	0.4 U	0.4 U	0.4 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	1.9 U	1.9 U	0.8 U	0.8 U	0.8 U
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.97 UT	0.97 UT	0.4 U	0.4 U	0.4 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 U	0.97 U	0.97 U	0.4 U	0.4 U	0.4 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorobutanoic Acid (PFBA)	375-22-4	0.2 U	1.9 R	1.1 J	0.37 J	0.3 J	0.19 J
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.49 U	0.49 U	0.11 J	0.2 U	0.2 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.49 U	0.49 U	0.66 J+	0.6 J+	0.2 U
Perfluorododecane sulfonate (PFDoS)	79780-39-5	0.2 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.49 U	0.49 U	0.36 J+	0.3 J+	0.2 U
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.06 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.49 U	0.49 U	0.17 J	0.14 J	0.2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.49 U	0.49 U	0.12 J	0.11 J	0.17 J
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.49 U	0.49 U	0.38 J	0.39 T	0.28 T
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.06 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.49 U	0.49 U	1.9	1.7	0.66
Perfluorooctanoic acid (PFOA)	335-67-1	0.06 U	0.49 U	0.2 J	0.61 J+	0.6 J+	1.5 J+
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.49 U	0.49 U	0.2 U	0.2 U	0.2 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.63 EMPC	0.55 EMPC	0.19 J	0.16 J	0.27 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.49 U	----	0.14 J	0.13 J	0.2 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.06 U	0.49 U	0.49 U	0.22	0.18 J	0.2 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.49 U	0.49 U	0.56	0.49	0.088 J
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	19 U	19 U	0.8 U	0.8 U	0.8 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environ
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approxi
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- x.xx Detected above Method Detection Limit

TABLE 3h (PB0362)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0362			
	Agricultural Product	Eggs	Chicken Range Soil		Farm Pond
	Sample Depth		0-2"	2-12"	
	Sample Date Units	Eg5 Ag-Eg5- 110123 11/01/2023 (ng/g)	SS-66 SS-66-0-2- 110123 11/01/2023 (ng/g)	SS-66 SS-66-2-12- 110123 11/01/2023 (ng/g)	SW-46-0-6- 110123 11/1/2023 (ng/l)
CAS Rn					
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	2 U	0.8 U	0.8 U	7.4 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	5 U	2 U	2 U	18 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	5 U	2 U	2 U	18 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	13 U	5 U	5 U	46 U
3-Perfluoroheptyl propanoic acid	812-70-4	13 U	5 U	5 U	46 U
3-Perfluoropropyl propanoic acid	356-02-5	2.5 U	1 U	1 U	9.2 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	2 U	0.8 U	0.8 U	7.4 U
6:2-Fluoroteleomersulfonic acid	27619-97-2	3 U	1 U	1 U	7.4 U
8:2-Fluorotelomersulfonic acid	39108-34-4	2 U	1 U	1 U	7.4 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	2 U	0.8 U	0.8 U	7.4 U
NetFOSA	2991-50-6	0.5 UJ	0.2 U	0.2 U	1.8 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.5 U	0.2 U	0.2 U	1.8 U
NMeFOSA	2355-31-9	0.5 U	0.2 U	0.2 U	3.7 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.5 U	0.2 U	0.2 U	1.8 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	1 U	0.4 U	0.4 U	3.7 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	1 U	0.4 U	0.4 U	3.7 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	2 U	0.8 U	0.8 U	7.4 U
Perfluoro-3-methoxypropanoic acid	377-73-1	1 U	0.4 U	0.4 U	3.7 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	1 U	0.4 U	0.4 U	3.7 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.5 U	0.2 U	0.2 U	1 J
Perfluorobutanoic Acid (PFBA)	375-22-4	2 U	0.8 U	0.8 U	7.4 U
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.5 UT	0.2 U	0.2 U	1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.5 U	0.11 J	0.2 U	1.8 U
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.5 R	0.2 U	0.2 U	1.8 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.5 U	0.064 J	0.2 U	1.8 U
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.5 U	0.2 U	0.2 U	1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 U	0.06 J	0.14 J	0.61 J
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.5 U	0.2 U	0.2 U	1.8 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 U	0.075 EMPC	0.13 J	0.81 J
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.5 U	0.2 U	0.2 U	1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	0.5 U	0.17 J	0.12 J	1.8 U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.5 U	0.2 U	0.2 U	1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	2.3 T	0.37	0.16 J	1 J
Perfluorooctanoic acid (PFOA)	335-67-1	0.5 U	0.35	0.76	2.9
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5 U	0.2 U	0.2 U	1.8 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1 U	0.4 U	0.13 J	3.7 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.5 R	0.2 U	----	1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.5 R	0.051 J	0.2 U	1.8 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5 U	0.11 J	0.2 U	1.8 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	2 U	0.8 U	0.8 U	7.4 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancas
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- x.xx Detected above Method Detection Limit

TABLE 3i (PB0364)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0364										PB0364			
	Agricultural Product	Syrup	Beef	Beef	Surface Water	Sediment	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
	Sample Depth				NA	0-6"	0-2"	2"-12"	0-2"	2"-12"	0-2"	2"-12"	0-2"	2"-12"	2"-12"
	Sample Date Units	Sy1 AG-Sy1-070523 07/05/2023 (ng/g)	Bf1 Ag-Bf1-070723 07/07/2023 (ng/g)	Bf1 X1-070723 07/07/2023 (ng/g)	SW-23 SW-23-11192020 11/19/2020 (ug/l)	SED-23 SED-23-05172021 05/17/2021 (ng/g)	SS-37 SS-37a-11182020 11/18/2020 (ng/g)	SS-37 SS-37b-11182020 11/18/2020 (ng/g)	SS-40 SS-40a-11192020 11/19/2020 (ng/g)	SS-40 SS-40b-11192020 11/19/2020 (ng/g)	SS-42 SS-42a-11192020 11/19/2020 (ng/g)	SS-42 SS-42b-11192020 11/19/2020 (ng/g)	SS-41 SS-41a-11182020 11/18/2020 (ng/g)	SS-41 SS-41b-11182020 11/18/2020 (ng/g)	SS-59 SS-59a-11182020 11/18/2020 (ng/g)
CAS Rn															
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	1.9 U	1.9 U	0.0018 U			0.73 U						0.93 U	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	4.8 U	4.8 U											
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	4.8 U	4.8 U											
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 U	12 U	12 U											
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 UT	12 U	12 U											
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	2.4 UT	2.4 U											
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	1.9 U	1.9 U	0.0018 U			3.6 U						4.6 U	
6:2-Fluorotelomersulfonic acid	27619-97-2	0.2 U	2.9 U	2.9 U	0.0046 U	4.7 U	2.7 U	2.4 U	2.6 U	2.5 U	3.2 U	2.7 U	3.7 U	3.1 U	3.4 U
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	1.9 U	1.9 U	0.0028 U	7 U	4.1 U	3.6 U	3.9 U	3.7 U	4.8 U	4 U	5.6 U	4.6 U	5.2 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	1.9 U	1.9 U	0.0018 U			2.4 U						3.1 U	
NetFOSA	2991-50-6	0.2 U	0.48 U	0.48 U	0.0028 U	4.7 U	2.7 U	2.4 U	2.6 U	2.5 U	3.2 U	2.7 U	3.7 U	3.1 U	3.4 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.48 U	0.48 U											
NMeFOSA	2355-31-9	0.2 U	0.48 U	0.48 U	0.0018 U	4.7 U	2.7 U	2.4 U	2.6 U	2.5 U	3.2 U	2.7 U	3.7 U	3.1 U	3.4 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.48 U	0.48 U											
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.06 UT	0.96 UT	0.96 U											
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.06 U	0.96 U	0.96 U											
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	1.9 U	1.9 U	0.0028 U			2.4 U						3.1 U	
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.96 UT	0.96 U											
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 UT	0.96 U	0.96 U											
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.48 U	0.48 U	0.0005 J	4.7 U	2.7 U	2.4 U	2.6 U	2.5 U	3.2 U	2.7 U	3.7 U	3.1 U	3.4 U
Perfluorobutanoic Acid (PFBA)	375-22-4	0.25 J	1.9 U	1.9 U	0.0018 J	4.7 U	1.3 J	0.97 J	2.6 U	1 J	3.2 U	2.7 U	2.7 J	3.1 U	3.4 U
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	0.82 U	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	1.1 U	0.93 U	1 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	1.2 J+	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	4.6 J+	0.93 U	1.6 EMPC
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.2 U	0.48 U	0.48 U											
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	1.4 J+	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	2.9 J+	0.93 U	1 U
Perfluoroheptane Sulfonate (PFHPs)	375-92-8	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	0.82 U	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	1.1 U	0.93 U	1 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.48 U	0.48 U	0.0046	1.4 U	0.82 U	1.4 J+	0.77 U	0.42 J	2.5	1.1	1.6 J+	2.4 J+	1 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	0.82 U	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	1.1 U	0.93 U	1 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.48 U	0.48 U	0.0019	1.4 U	0.82 U	1.1 J+	0.29 J	0.92	2.3	0.67 J	1.9 J+	1.6 J+	1 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.48 U	0.48 U											
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.48 U	0.48 U	0.00065 J	1.4 U	0.82 U	0.73 U	0.75 J	0.75 U	0.97 U	0.8 U	1.7 J+	0.93 U	1.2 J+
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	0.82 U	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	1.1 U	0.93 U	1 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.48 U	0.48 U	0.00058 EMPC	1.4 U	0.82 U	0.73 U	0.53 J	0.29 J	1.2	0.52 J	1.7 J+	0.93 U	1 U
Perfluorooctanoic acid (PFOA)	335-67-1	0.034 J	0.48 U	0.48 U	0.097	1.2 J	3.3 J+	11 J+	2	3.7	21	17	14 J+	25 J+	7.5 J+
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.48 U	0.48 U											
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.96 U	0.96 U	0.00069 J	1.4 U	0.82 U	0.73 U	0.48 J	1.2	0.7 J	0.42 J	1.8 J+	0.93 U	1 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.48 U	----	0.0018 U	1.4 U	0.82 U	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	1.6 J+	0.93 U	1 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	0.96 J+	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	2.6 J+	0.93 U	1 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.48 U	0.48 U	0.0018 U	1.4 U	1.8 J+	0.73 U	0.77 U	0.75 U	0.97 U	0.8 U	5.5 J+	0.93 U	1.3 J+
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	1.9 U	1.9 U											

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ug/L (ppb).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- "xx" Detected above Method Detection Limit

TABLE 3j (PB0372)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

	Property ID	PB0372
	Agricultural Product	Eggs
	Sample Depth	
	Sample Date Units	Eg4 Ag-Eg4-092823 09/28/2023 (ng/g)
Chemical Name	CAS Rn	
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	2 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	5 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	5 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	13 U
3-Perfluoroheptyl propanoic acid	812-70-4	13 U
3-Perfluoropropyl propanoic acid	356-02-5	2.5 UT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	2 UT
6:2-Fluoroteleomersulfonic acid	27619-97-2	3 U
8:2-Fluorotelomersulfonic acid	39108-34-4	2 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	2 U
NETFOSA	2991-50-6	0.5 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.5 U
NMeFOSA	2355-31-9	0.5 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.5 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	1 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	1 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	2 U
Perfluoro-3-methoxypropanoic acid	377-73-1	1 UT
Perfluoro-4-methoxybutanoic acid	863090-89-5	1 UT
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.5 UT
Perfluorobutanoic Acid (PFBA)	375-22-4	2 U
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.5 UT
Perfluorodecanoic acid (PFDA)	335-76-2	0.33 J
Perfluorododecane sulfonate (PFDoS)	79780-39-5	0.5 UT
Perfluorododecanoic acid (PFDoA)	307-55-1	0.5 U
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.5 UT
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.5 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.5 U
Perfluorononanoic acid (PFNA)	375-95-1	0.29 JT
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.5 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	3.5
Perfluorooctanoic acid (PFOA)	335-67-1	0.5 UT
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.5 R
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.26 J-
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.32 J
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	2 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023)
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the RL.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL).
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- x.xx Detected above Method Detection Limit

TABLE 3k (PB0418)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	PB0418												
	Agricultural Product	Blueberry	Beet	Beet Green	Sp. Squash	Pepper	Mstd. Grn	Mstd. Grn	Tomato	Garden Soil		Garden Soil	
	Sample Depth									0-2"	2-12"	0-2"	2-12"
	Location	Fr9	Vg3	Vg4	Vg5	Vg6	Vg7	Vg7	Vg8	SS-77	SS-77	SS-78	SS-78
	Sample ID	Ag-Fr3-082523	Ag-Vg3-082423	Ag-Vg4-082423	Ag-Vg5-082423	Ag-Vg6-082423	Ag-Vg7-082423	X2-082423 (ng/g)	Ag-Vg8-082423 (ng/g)	SS-77-0-2-102623 (ng/g)	SS-77-2-12-102623 (ng/g)	SS-78-0-2-102623 (ng/g)	SS-78-2-12-102623 (ng/g)
Sample Date	Units	08/25/2023 (ng/g)	08/24/2023 (ng/g)	08/24/2023 (ng/g)	08/24/2023 (ng/g)	08/24/2023 (ng/g)	08/24/2023 (ng/g)	08/24/2023 (ng/g)	08/24/2023 (ng/g)	10/26/2023 (ng/g)	10/26/2023 (ng/g)	10/26/2023 (ng/g)	10/26/2023 (ng/g)
CAS Rn													
11-Chlorooctadecafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	0.06 U	2 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U	0.78 U	0.91 U	0.81 U	0.92 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.2 U	4.9 U	4.8 U	5 U	4.9 U	4.8 U	5 U	4.8 U	2 U	2.3 U	2 U	2.3 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.2 U	4.9 U	4.8 U	5 U	4.9 U	4.8 U	5 U	4.8 U	2 U	2.3 U	2 U	2.3 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	0.06 U	12 U	12 U	12 U	12 U	12 U	13 U	12 U	4.9 U	5.7 U	5.1 U	5.8 U
3-Perfluoroheptyl propanoic acid	812-70-4	0.06 UT	12 U	12 U	12 U	12 U	12 U	13 U	12 U	4.9 U	5.7 U	5.1 U	5.8 U
3-Perfluoropropyl propanoic acid	356-02-5	0.06 UT	2.5 UT	2.4 UT	2.5 UT	2.4 UT	3.6 EMPC	2.5 UT	2.4 UT	0.98 U	1.1 U	1 U	1.2 U
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.3 U	2 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U	0.78 U	0.91 U	0.81 U	0.92 U
6:2-Fluorotelomersulfonic acid	27619-97-2	0.2 U	30 U	29 U	3 U	2.9 U	29 U	30 U	2.9 U	0.98 U	1.1 U	1 U	1.2 U
8:2-Fluorotelomersulfonic acid	39108-34-4	0.3 U	2 U	19 U	2 U	19 U	1.9 U	20 U	19 U	0.98 U	1.1 U	1 U	1.2 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	0.2 U	2 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U	0.78 U	0.91 U	0.81 U	0.92 U
NETFOA	2991-50-6	0.2 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.2 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
NMeFOA	2355-31-9	0.2 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.2 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.06 U	0.99 U	0.97 U	0.99 U	0.97 U	0.97 U	1 U	0.96 U	0.39 U	0.46 U	0.41 U	0.46 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.06 U	0.99 U	0.97 U	0.99 U	0.97 U	0.97 U	1 U	0.96 U	0.39 U	0.46 U	0.41 U	0.46 U
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	0.2 U	2 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U	0.78 U	0.91 U	0.81 U	0.92 U
Perfluoro-3-methoxypropanoic acid	377-73-1	0.06 U	0.99 U	0.97 U	0.99 U	0.97 U	0.97 U	1 U	0.96 U	0.39 U	0.46 U	0.41 U	0.46 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.06 U	0.99 U	0.97 U	0.99 U	0.97 U	0.97 U	1 U	0.96 U	0.39 U	0.46 U	0.41 U	0.46 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.2 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorobutanoic Acid (PFBA)	375-22-4	0.2 U	2 R	1.9 U	2 R	1.9 U	0.51 J	2 U	1.9 U	0.78 U	0.91 U	0.81 U	0.12 J
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.13 J	0.12 J	0.14 J	0.11 J
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	0.2 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorododecanoic acid (PFDoA)	307-55-1	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.096 J	0.059 EMPC	0.08 J	0.23 U
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.1 J
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorononanoic acid (PFNA)	375-95-1	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.087 J	0.086 J	0.12 EMPC	0.2 J
Perfluorooctane Sulfonamide (FOA)	754-91-6	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.44 J	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.06 U	0.49 U	0.48 U	2	0.27 J	0.26 J	0.19 J	0.51	0.31	0.3	0.25	0.21 J
Perfluorooctanoic acid (PFOA)	335-67-1	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.15 J	0.18 J	0.2	0.71
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.06 U	0.99 U	0.97 U	0.99 U	0.97 U	0.97 U	1 U	0.96 U	0.39 U	0.46 U	0.41 U	0.46 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.06 U	0.49 U	---	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.2 U	0.23 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.2 U	0.23 U	0.063 J	0.23 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.06 U	0.49 U	0.48 U	0.5 U	0.49 U	0.48 U	0.5 U	0.48 U	0.14 J	0.07 J	0.13 J	0.076 J
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	0.2 U	20 U	19 U	20 U	1.9 U	19 U	20 U	19 U	0.78 U	0.91 U	0.81 U	0.92 U

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania.
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "R" indicates result rejected by data validator
- "+" indicates result listed is biased high.
- xx Detected above Method Detection Limit

TABLE 3I (PB0423)
Taconic (442047)
Agricultural Products Sampling
RI Phase 2b and 2a Results

Chemical Name	Property ID	PB0423						
	Agricultural Product	Eggs	Woods Soil		Woods Soil		Yard Soil	
	Sample Depth		0-2"	2-12"	0-2"	2-12"	0-2"	2-12"
	Sample Date Units CAS Rn	Eg3 Ag-Eg3- 092823 09/28/2023 (ng/g)	SS-53 SS-53a- 11172020 11/17/2020 (ng/g)	SS-53 SS-53b- 11172020 11/17/2020 (ng/g)	SS-54 SS-54a- 11172020 11/17/2020 (ng/g)	SS-54 SS-54b- 11172020 11/17/2020 (ng/g)	SS-56 SS-56a- 11172020 11/17/2020 (ng/g)	SS-56 SS-56b- 11172020 11/17/2020 (ng/g)
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	2 U						
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	4.9 U						
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	4.9 U						
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	12 U						
3-Perfluoroheptyl propanoic acid	812-70-4	12 U						
3-Perfluoropropyl propanoic acid	356-02-5	2.5 U						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	2 U						
6:2-Fluorotelomersulfonic acid	27619-97-2	3 U	2.3 U	2.4 U	3.4 U	2.6 U	3.2 U	3 U
8:2-Fluorotelomersulfonic acid	39108-34-4	2 U	3.5 U	3.6 U	5.2 U	3.9 U	4.7 U	4.5 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	2 U						
NETFOSA	2991-50-6	0.49 U	2.3 U	2.4 U	3.4 U	2.6 U	3.2 U	3 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	0.49 U						
NMeFOSA	2355-31-9	0.49 U	2.3 U	2.4 U	3.4 U	2.6 U	3.2 U	3 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.49 U						
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.99 U						
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.99 U						
Perfluoro(2-Propoxypropanoic) Acid	13252-13-6	2 U						
Perfluoro-3-methoxypropanoic acid	377-73-1	0.99 U						
Perfluoro-4-methoxybutanoic acid	863090-89-5	0.99 U						
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.49 U	2.3 U	2.4 U	3.4 U	2.6 U	3.2 U	3 U
Perfluorobutanoic Acid (PFBA)	375-22-4	2 U	2.3 U	2.4 U	3.4 U	2.6 U	3.2 U	3 U
Perfluorodecane Sulfonic Acid (PFDS)	335-77-3	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluorodecanoic acid (PFDA)	335-76-2	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluorodecane sulfonate (PFDoDS)	79780-39-5	0.49 U						
Perfluorodecanoic acid (PFDoA)	307-55-1	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluoroheptane Sulfonate (PFHPS)	375-92-8	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.49 U	0.23 J	0.74	1 U	0.28 J	0.95 U	0.89 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluorohexanoic acid (PFHxA)	307-24-4	0.49 U	0.7 U	0.47 J	1 U	0.78 U	0.95 U	0.89 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.49 U						
Perfluorononanoic acid (PFNA)	375-95-1	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.49 U	0.7 U	0.72 U	1 U	0.78 U	1.1 J+	0.89 U
Perfluorooctanoic acid (PFOA)	335-67-1	0.49 UT	2 J+	8.6 J+	2.2 J+	4.3 J+	2.1 J+	1.3 J+
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.49 U						
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.99 U	0.7 U	0.32 J	1.3	1.1	0.95 U	0.89 U
Perfluorotetradecanoic acid (PFTA)	376-06-7	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.49 U	0.7 U	0.72 U	1 U	0.78 U	0.95 U	0.89 U
Sodium 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2)	757124-72-4	2 U						

Notes:

- Results reported in nanograms per gram (ng/g), parts per billion (ppb) or ng/L (ppt).
- Poly- and perfluoroalkyl substances quantitated using Draft USEPA Method 1633 (2023) and 537 (2021) by Eurofins Lancaster Laboratories Environmental, LLC
- "EMPC" indicates Estimated Maximum Possible Concentration.
- "J" indicates the reported value is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and is an approximate value.
- "U" indicates the compound was not detected at or above the Method Detection Limit (MDL) shown.
- "T" indicates that a quality control parameter has exceeded laboratory limits.
- "+" indicates result listed is biased high.

x.xx Detected above Method Detection Limit

FIGURES

Plot Date: 6/17/2022 Plotted By: Sisson, Evan

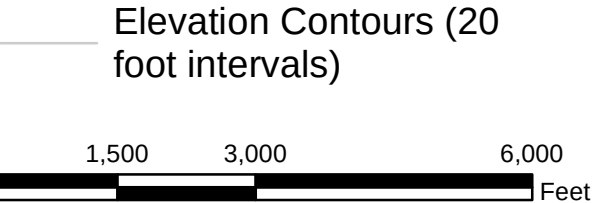
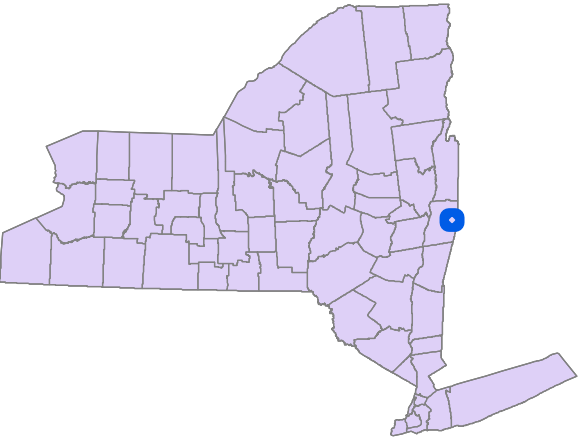
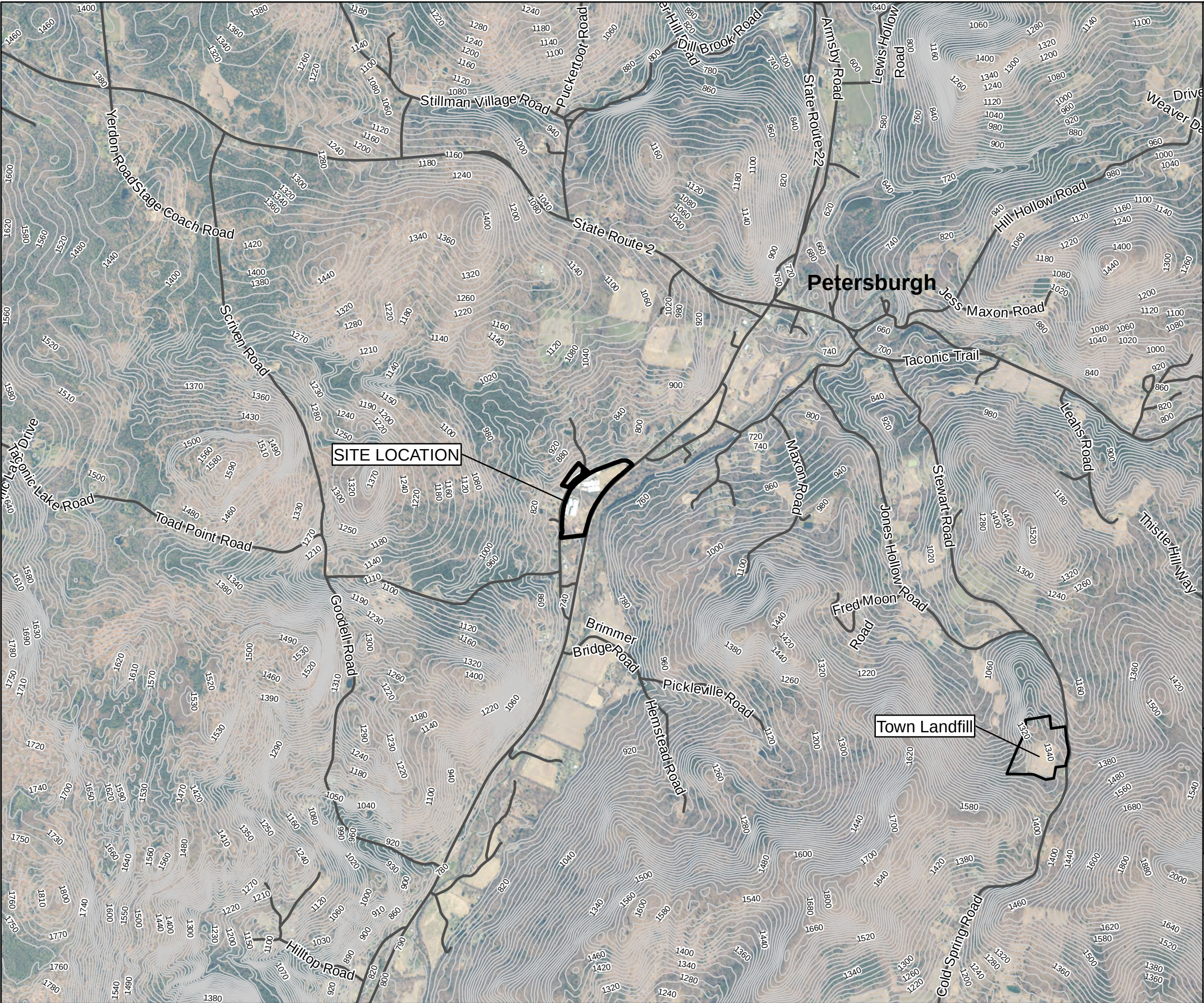


FIGURE 1



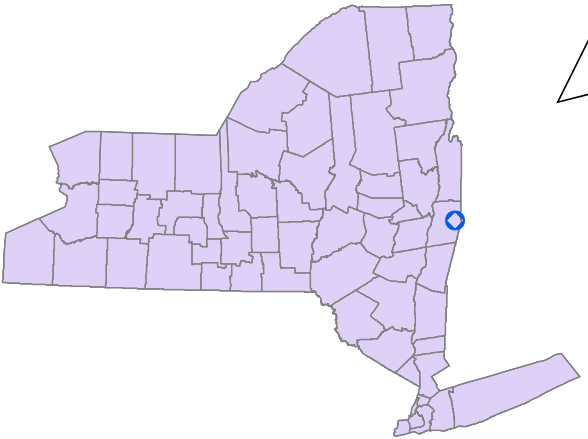
SITE LOCATION

PHASE 2A REMEDIAL INVESTIGATION



301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

Plot Date: 6/21/2022 Plotted By: Sisson, Evan



- Site Boundary
- Inactive Drywell
- Production Well Location
- River Boundaries
- Utilities**
- Sanitary Sewer
- Storm Ditch
- Storm Sewer
- Culvert
- Natural Gas Tank
- Pond
- Leach Field
- Fume Eliminators
- Sludge Roll-off Storage Pad
- Building Footprint
- Tax Parcel Boundaries

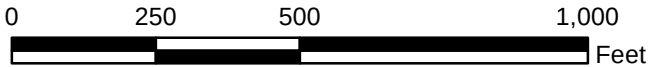


FIGURE 2

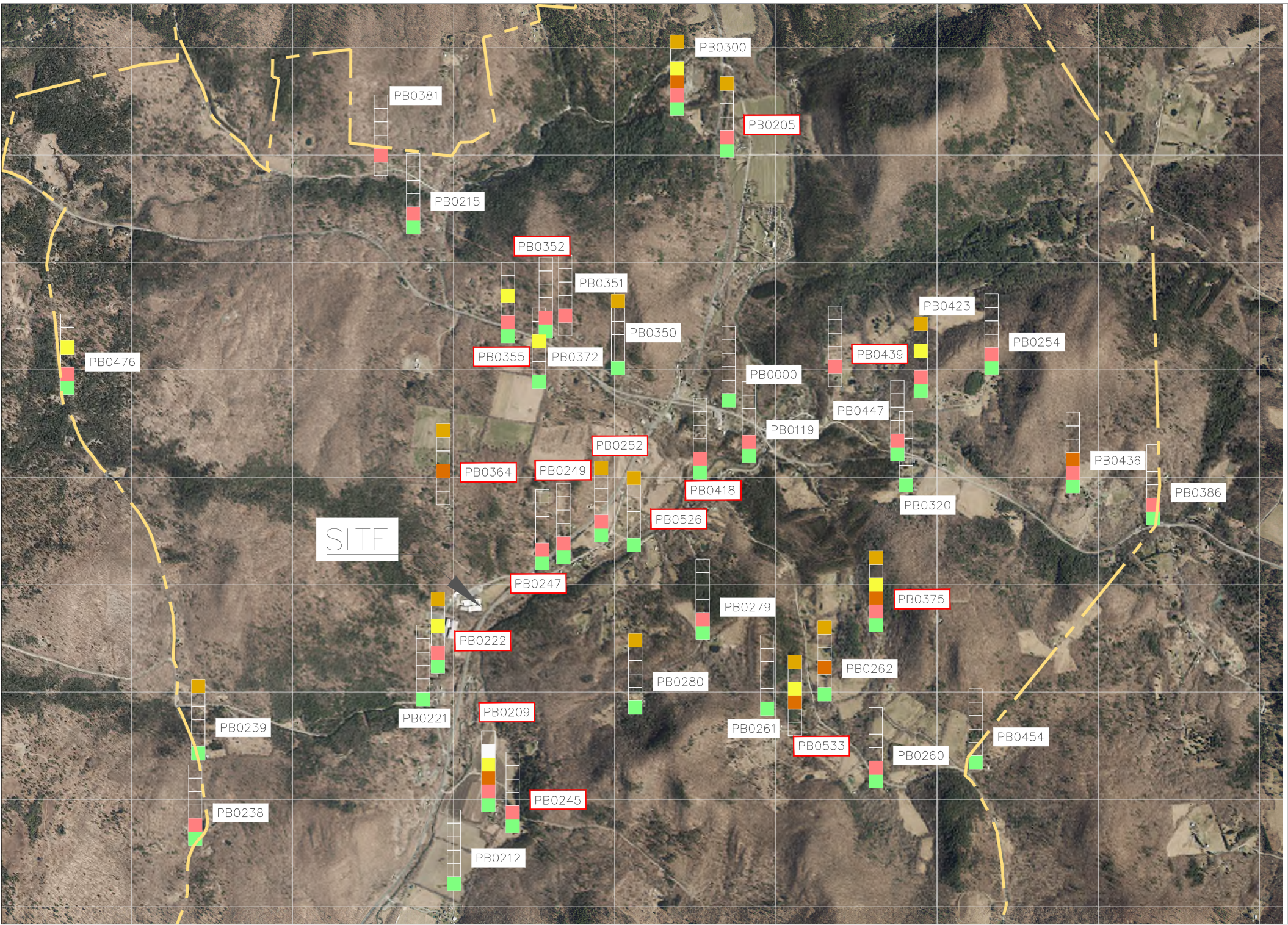


SITE PLAN AND SITE FEATURES

PHASE 2A REMEDIAL INVESTIGATION



301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

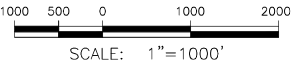


LEGEND

- PB0XXX Property ID
- PB0XXX SAMPLING CANDIDATE
- PRODUCED AT PROPERTY
- SYRUP
 - MILK
 - EGGS
 - MEAT
 - FRUIT
 - VEGETABLES
- WELL INVESTIGATION AREA

NOTES

1. Agricultural products at properties indicated based on survey responses from local residents received by Taconic through March 1, 2023

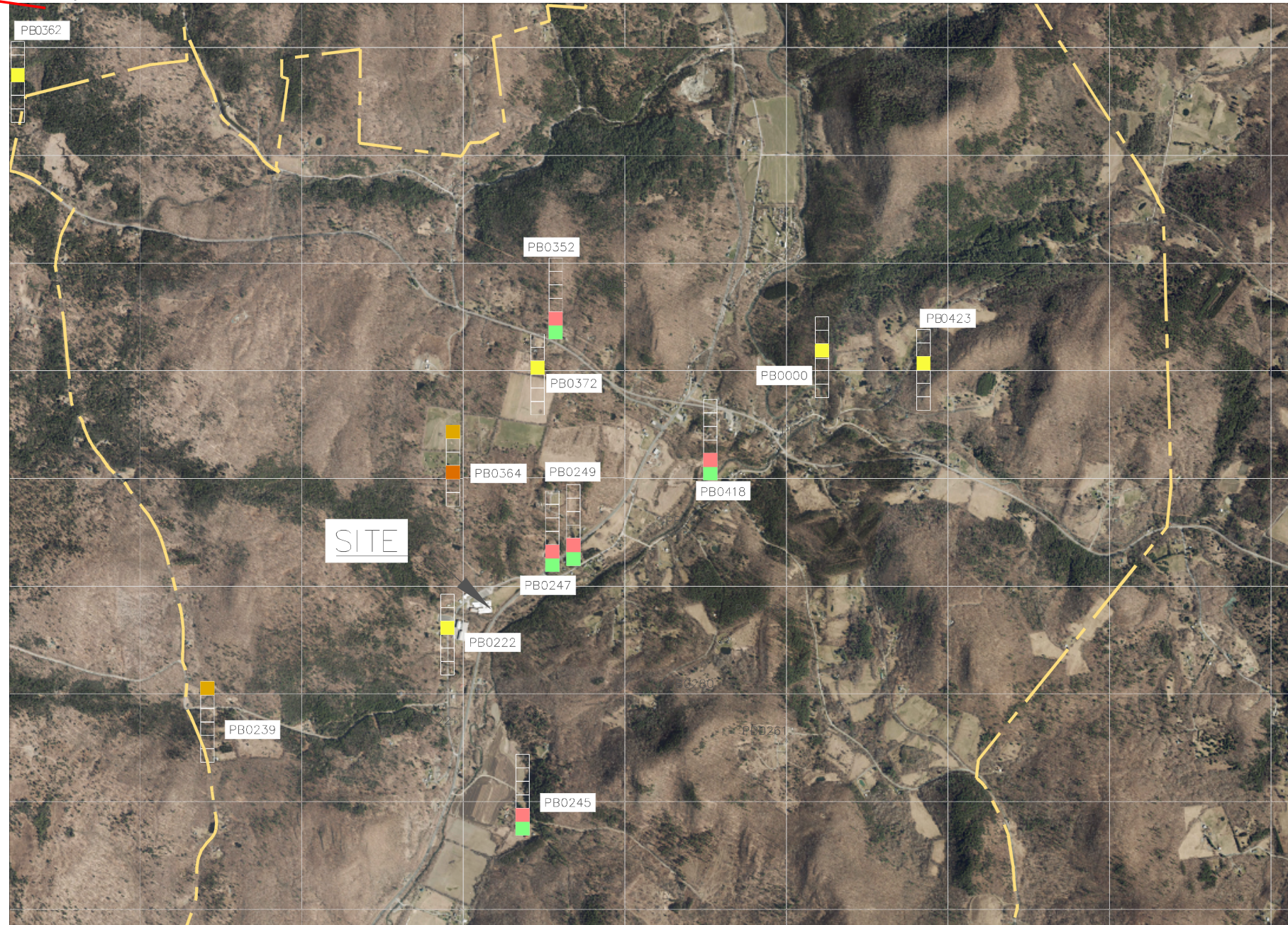


TACONIC
136 COONBROOK ROAD
PETERSBURGH, NEW YORK 12138

TACONIC
Petersburgh, NY
Site No. 442047
FIGURE 3
AGRICULTURAL PRODUCTS
SURVEY RESULTS

DATE: 3/1/2023	
SIZE: SCALE	D AS SHOWN
PROJECT NO.	REV.
CONTRACT SHEET NO.	PAGE NO.

← off map



LEGEND

PB0XXX Property ID

SAMPLED AT PROPERTY

- SYRUP
- MILK
- EGGS
- MEAT
- FRUIT
- VEGETABLES

WELL INVESTIGATION AREA



1000 500 0 1000 2000
SCALE: 1"=1000'

TACONIC
136 COONBROOK ROAD
PETERSBURGH, NEW YORK 12138

TACONIC
Petersburgh, NY
Site No. 442047
FIGURE 4
**Agricultural Products
Sampling Locations**

DATE: 1/12/2024	
SIZE: D	SCALE: AS SHOWN
PROJECT NO.	REV.
CONTRACT SHEET NO.	PAGE NO.

APPENDICES

APPENDIX A

QHHEA SCOPE OF WORK

SCOPE OF WORK
QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT
TACONIC 136 COON BROOK ROAD, PETERSBURGH, NY 12138

The following is a scope of work summary for the preparation of a Qualitative Human Health Exposure Assessment (Part 2) for the Taconic facility located at 136 Coon Brook Road, Petersburg, NY 12138.

The purpose of the Qualitative Human Health Exposure Assessment (QHHEA) Part 2 is to evaluate and document how people might be exposed to site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the site. The QHHEA will be conducted to meet the requirements of the New York State Department of Environmental Conservation (NYSDEC) – Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 3B, dated May 2010.

To evaluate if an exposure pathway exists, the exposure assessment must assess the quality, representativeness and adequacy of the available data. For instance, field data quality, laboratory data quality, and sampling designs need to be appropriate to meet data quality objectives (e.g., detection limits and minimum reporting limits must be appropriate for the evaluation of human exposures).

The scope of work for the QHHEA includes:

- Review of analytical results for surface water, sediment, groundwater, surface and subsurface soils. This will include assessment of the quality, representativeness and adequacy of the available data to ensure it meets data quality objectives and is appropriate for the evaluation of human exposures.
- Exposure assessment evaluation which includes:
 - a) A description of the contaminant source(s) including the location of the contaminant release to the environment (any waste disposal area or point of discharge) or if the original source is unknown, the contaminated environmental medium (soil, indoor or outdoor air, biota, water) at the point of exposure;
 - b) An explanation of the contaminant release and transport mechanisms to the exposed population;
 - c) Identification of reasonably ascertainable potential exposure point(s) where actual or potential human contact with a contaminated medium may occur;
 - d) Description(s) of the route(s) of exposure (i.e., ingestion, inhalation, dermal absorption including but not limited to direct contact with soil, potable water exposures, exposures through ingestion of food such as maple syrup, exposures through gardening in impacted soil, exposures via ingestion of livestock exposed to PFAS, ingestion of fish and exposures via swimming);
 - e) A characterization of the receptor populations who may be exposed to contaminants at a point of exposure; and

- f) A qualitative review of the effectiveness of on-going Interim Remedial Measures (i.e. public water treatment, residential POET systems, and residential water monitoring programs) in mitigating human exposures.

All documentation and results of a QHHEA Part 2 including a summary table as described in Appendix 3B will be submitted to the NYSDEC for review and comment.

1.0 SITE DESCRIPTION

The Taconic Plastics Facility comprises approximately 23.54 acres of property in a rural area, at the northernmost intersection of Coonbrook Road and State Route 22. The majority of the Site consists of developed area including buildings, paved surfaces, and stormwater management facilities. Non-developed portions of the Site consist of mowed lawn, ornamental landscaping, planted drainage swales, and woodlands. Site structures include the main manufacturing building, the attached administration building, and several other buildings for various operations.

Taconic manufactures polytetrafluoroethylene (PTFE) coated fabrics at this facility. The Site features nine structures related to manufacturing and three parking lots. The Site is currently an operating manufacturing facility.

The Site is bounded to the south by forested lands and residential lots, to the east by Route 22, to the west by Russell Road and Toad Point Road with extensive forested landscapes, and to the north by agricultural and forested lands. The Site is located in an area zoned for industrial use in the Town of Petersburg. The area surrounding the Site is generally characterized as undeveloped.

The Site lies within the New England Uplands Physiographic Province of New York State (National Park Service, 2021). The New England Uplands Province extends north into Canada and is flanked by the Piedmont Plains to the south. The terrain is characterized by plateaus and narrow valleys. The Site itself is located on the west side of the Little Hoosic River Valley. The Little Hoosic River is abutted by the Taconic mountains to the east and by an upland area that raises up to Grafton Lakes and Graton State Park to the west. The Little Hoosic flows north before discharging to the Hoosic River, which flows north then west before its confluence with the Hudson River just north of Mechanicville.

Stormwater runoff from the Site is directed into a series of storm drains that collect in a series of catch basins before being conveyed via storm sewers to on-site ditches and swales. Stormwater for buildings 1 thru 5 is conveyed to an Unnamed Pond 3 off the Site, and then under Route 22 to the Little Hoosic River. Stormwater from paved areas of the complex associated with Buildings 6, 9, 10, and 11 are collected in catch basins and conveyed through storm sewers which discharge to a low-lying wetland area east of Building 10. The parking lot north of Coon Brook Road and the low-lying wetland area south of Building 10 drain through an Unnamed Stream and culvert under Route 22 to the Little Hoosic River. During heavy rain events, a minor component of stormwater overland flow discharges directly to Unnamed Stream 1.

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2.0 CONCEPTUAL SITE MODEL

The analytical data presented in the Interim Investigation Deliverable report prepared by Parsons in February 2020 was reviewed to evaluate appropriate potential human exposure pathways for this Site. A preliminary Conceptual Site Model is presented in the Parsons report. Based on the surface water, sediment, groundwater including groundwater collected from production wells and residential wells, surface soil, and subsurface soil data collected from the Site and areas potentially downgradient of the Site, Table 1, the Exposure Assessment Summary was prepared. This table lists potential human receptors and exposure pathways those receptors may have in relation to exposure to Site media. The table highlights existing data and areas where data may need to be collected in the future. This table provides an overview of the current and potential exposures for the specific site that will be the basis of the Quantitative Human Health Exposure Assessment.

Table 1
Exposure Assessment Summary
Taconic
136 Coon Brook Road
Petersburgh, New York

Environmental Media & Exposure Route	Human Receptor	Exposure Assessment
Potential Human Exposures		
<i>Surface soils</i> Direct contact/incidental ingestion, inhalation of fugitive dust - surface soils	Employee Trespasser/On-Site Visitor Landscaper	Human receptors may be exposed to constituents detected in surface soil including PFAS. Additional potential exposures to VOCs, SVOCs, pesticides, PCBs, and metals may be included if they are determined to be constituents of potential concern (COPCs). COPCs in each media will be determined based on concentration, frequency of detection, distribution, and comparison to background concentrations.
Direct contact/incidental ingestion, inhalation of fugitive dust - surface and subsurface soils	Construction/Utility Worker	Human receptors may be exposed to constituents detected in surface soil including PFAS. Additional potential exposures to VOCs, SVOCs, pesticides, PCBs, and metals may be included if they are determined to be constituents of potential concern (COPCs). COPCs in each media will be determined based on concentration, frequency of detection, distribution, and comparison to background concentrations.
<i>Groundwater</i> Ingestion of groundwater	Local residents	Human receptors may be exposed to constituents detected in residential drinking water wells including PFAS and metals.
Dermal contact, inhalation in shower scenario	Employees	Human receptors may be exposed to constituents detected in production well groundwater including PFAS and metals.
Direct contact groundwater	Construction/Utility Worker	Human receptors may be exposed to constituents detected in shallow groundwater including PFAS and metals.
Direct contact groundwater		
<i>Indoor Air/Soil Gas</i> Inhalation of indoor air	Employees	Indoor air is not considered a media of concern at this time.
<i>Surface Water/Sediment</i> Direct contact/incidental ingestion surface water while wading/swimming	Local residents	Human receptors may be exposed to constituents detected in surface water including PFAS in streams, ponds, and Little Hoosic River.
Direct contact/incidental ingestion sediment while wading/swimming	Local residents	Human receptors may be exposed to constituents detected in sediment including PFAS in streams, ponds, and Little Hoosic River. Additional COPCs may include VOCs, SVOCs, pesticides, and metals to be determined based on concentration, frequency of detection, distribution, and comparison to background concentrations.
<i>Other media</i> Ingestion of maple syrup	Local residents	Potential exposures to PFAS in maple syrup will be discussed qualitatively based on existing studies of maple syrup performed in Vermont and New York.
Gardening Ingestion of produce, direct contact with soil	Local residents	Further review of this pathway is recommended to determine if soil and/or groundwater used for watering in local farms and gardens have been affected by the Site. If PFAS is in garden soil, potential concentrations in vegetables can be estimated or vegetables can be collected and analyzed.
Ingestion of live stock/chickens/milk	Local residents	Further review of this pathway is recommended to determine if soil/groundwater in local farms have been affected by the Site, collection of local meat and/or milk and analysis of tissue/milk is a possible way to determine if livestock have been affected.
Ingestion of fish	Local residents	Existing DEC data may be used to evaluate this pathway. Collection of local fish and analysis of fish tissue for PFAS may be recommended in the future if fish of edible size are in streams, ponds, and/or Little Hoosic River.

APPENDIX B

AGRICULTURAL PRODUCTS QUESTIONNAIRE

RESPONSES

Egg Sampling Questionnaire (PB0000)

Please indicate the food source for chickens raised on this property. If the food source varies based on the time of year, please include that information in your response below.

Kitchen and garden scraps

Please indicate the water source for chickens raised on this property. If the water source varies based on the time of year, please include that information in your response below.

Little Hoosic River

Describe the living conditions of the chickens (for example, free-range, kept in a coup). If this varies based on the time of year, please include that information in your response below.

Coup and hen-house

Egg Sampling Questionnaire (PB0000)

How many home produced eggs per week do individuals in this household consume?

<i>Eggs</i>				
Eggs per week	Individual (age)58	Individual (age)58	Individual (age)17?	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X	X	X	
8 to 10				
10 to 15				
15 to 20				
More than 20				

If you have any questions, please contact the Health Department:

NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH):

Angela Martin

NYSDOH

Bureau of Environmental Exposure Investigation

Empire State Plaza

Corning Tower Room 1787

Albany, NY 12237

(518) 402-7860

Angela.Martin@health.ny.gov

beei@health.ny.gov

Egg Sampling Questionnaire (PB0222)

Please indicate the food source for chickens raised on this property. If the food source varies based on the time of year, please include that information in your response below.

Kitchen, yard and garden scraps

Please indicate the water source for chickens raised on this property. If the water source varies based on the time of year, please include that information in your response below.

POET System

Describe the living conditions of the chickens (for example, free-range, kept in a coop). If this varies based on the time of year, please include that information in your response below.

Coop and hen-house

Egg Sampling Questionnaire (PB0222)

How many home produced eggs per week do individuals in this household consume?

<i>Eggs</i>				
Eggs per week	Individual (age)73	Individual (age)	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X			
8 to10				
10 to 15				
15 to 20				
More than 20				

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Fruits and Vegetables Sampling Questionnaire

PB0245

The following fruits and/or vegetables are available to be sampled at this property (please specify products below):

Berries, Apples, Kale, Leeks

Are the fruits and/or vegetables grown in a raised bed? (Yes or No)

Yes, but not those sampled

If Yes, please indicate the source of the soil in the raised bed NA

Please indicate the water source(s) used for irrigation of the fruits and/or vegetables to be sampled at this property and the approximate number of days per week watered. If the water source(s) vary based on time of year, please specify that below in your response.

POET system

Are any additives (for example, fertilizer, compost) used in growing these fruits and/or vegetables? (Yes or No) Yes

If Yes, please indicate the additive(s) used Moo Poo compost bag

Are pesticides applied to these fruits and/or vegetables (Yes or No) No

If yes, please indicate the name(s) of the pesticide(s) used including brand name. If this varies based on the time of year, please specify that in your response.

NA

Fruits and Vegetables Sampling Questionnaire

PB0245

How many meals per week do individuals in this household consume fruit and/or vegetables grown on this property?

<i>Fruits and Vegetables</i>				
Servings per week	Individual (age)65	Individual (age)	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X			
8 to10				
10 to 15				
15 to 20				
More than 20				

Do you can or preserve any of the fruits and vegetables? If so, which ones? Apple Cider

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Fruits and Vegetables Sampling Questionnaire

PB0247

The following fruits and/or vegetables are available to be sampled at this property (please specify products below):

Fruit trees, grapes and some vegetables

Are the fruits and/or vegetables grown in a raised bed? (Yes or No)

No

If Yes, please indicate the source of the soil in the raised bed NA

Please indicate the water source(s) used for irrigation of the fruits and/or vegetables to be sampled at this property and the approximate number of days per week watered. If the water source(s) vary based on time of year, please specify that below in your response.

Mostly rain but some minor amounts from POET system

Are any additives (for example, fertilizer, compost) used in growing these fruits and/or vegetables? (Yes or No) No

If Yes, please indicate the additive(s) used _____

Are pesticides applied to these fruits and/or vegetables (Yes or No) No

If yes, please indicate the name(s) of the pesticide(s) used including brand name. If this varies based on the time of year, please specify that in your response.

NA

Fruits and Vegetables Sampling Questionnaire PB0247

How many meals per week do individuals in this household consume fruit and/or vegetables grown on this property?

<i>Fruits and Vegetables</i>				
Servings per week	Individual (age)78	Individual (age)	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X			
8 to10				
10 to 15				
15 to 20				
More than 20				

Do you can or preserve any of the fruits and vegetables? If so, which ones? No

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Fruits and Vegetables Sampling Questionnaire

PB0249

The following fruits and/or vegetables are available to be sampled at this property (please specify products below):

Apples and variety of vegetables

Are the fruits and/or vegetables grown in a raised bed? (Yes or No)

No

If Yes, please indicate the source of the soil in the raised bed NA

Please indicate the water source(s) used for irrigation of the fruits and/or vegetables to be sampled at this property and the approximate number of days per week watered. If the water source(s) vary based on time of year, please specify that below in your response.

Mostly rain but some minor amounts from POET system

Are any additives (for example, fertilizer, compost) used in growing these fruits and/or vegetables? (Yes or No) No

If Yes, please indicate the additive(s) used

Are pesticides applied to these fruits and/or vegetables (Yes or No) No

If yes, please indicate the name(s) of the pesticide(s) used including brand name. If this varies based on the time of year, please specify that in your response.

NA

Fruits and Vegetables Sampling Questionnaire PB0249

How many meals per week do individuals in this household consume fruit and/or vegetables grown on this property?

<i>Fruits and Vegetables</i>				
Servings per week	Individual (age)70	Individual (age)72	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X	X		
8 to 10				
10 to 15				
15 to 20				
More than 20				

Do you can or preserve any of the fruits and vegetables? If so, which ones? __

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Fruits and Vegetables Sampling Questionnaire

PB0352

The following fruits and/or vegetables are available to be sampled at this property (please specify products below):

Blueberries, Rhubarb, edible flowers (Bee Balm)

Are the fruits and/or vegetables grown in a raised bed? (Yes or No)

No

If Yes, please indicate the source of the soil in the raised bed NA

Please indicate the water source(s) used for irrigation of the fruits and/or vegetables to be sampled at this property and the approximate number of days per week watered. If the water source(s) vary based on time of year, please specify that below in your response.

Rain

Are any additives (for example, fertilizer, compost) used in growing these fruits and/or vegetables? (Yes or No) No

If Yes, please indicate the additive(s) used _____

Are pesticides applied to these fruits and/or vegetables (Yes or No) No _____

If yes, please indicate the name(s) of the pesticide(s) used including brand name. If this varies based on the time of year, please specify that in your response.

NA

Fruits and Vegetables Sampling Questionnaire PB0352

How many meals per week do individuals in this household consume fruit and/or vegetables grown on this property?

<i>Fruits and Vegetables</i>				
Servings per week	Individual (age)73	Individual (age)	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X			
8 to10				
10 to 15				
15 to 20				
More than 20				

Do you can or preserve any of the fruits and vegetables? If so, which ones? No

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Egg Sampling Questionnaire (PB0362)

Please indicate the food source for chickens raised on this property. If the food source varies based on the time of year, please include that information in your response below.

Field grazed in movable pens in summer. Some commercial feed.

Please indicate the water source for chickens raised on this property. If the water source varies based on the time of year, please include that information in your response below.

On-site wells and surface water

Describe the living conditions of the chickens (for example, free-range, kept in a coop). If this varies based on the time of year, please include that information in your response below.

Rotating field pens except indoor coops in winter

Egg Sampling Questionnaire (PB0362)

How many home produced eggs per week do individuals in this household consume?

Soul-Fire Farm is an agricultural co-operative. Some on-site consumption by property residents and guests. Many eggs are distributed off-site.

<i>Eggs</i>				
Eggs per week	Individual (age)	Individual (age)	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8				
8 to 10				
10 to 15				
15 to 20				
More than 20				

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Syrup Sampling Questionnaire

PB0364

Please indicate when the maple syrup was produced.

Spring 2023

Please indicate the location of the sugarbush used as the source of the maple syrup. If multiple sources were used, please include a description of the locations in your response below.

On-site Maple trees

Is tubing used to collect the sap? If so, what type of tubing is used?

Some blue polyethylene? tubing

Syrup Sampling Questionnaire

PB0364

How many meals per week do individuals in this household consume maple syrup produced at this location?

<i>Syrup</i>				
Servings per week	Individual (age)77	Individual (age)	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X			
8 to10				
10 to 15				
15 to 20				
More than 20				

Please provide the estimated quantities for each item in the table below.

Total gallons of sap processed per year: <u> ? </u>
Total gallons of syrup produced for home use: <u> ? </u>
Total gallons of syrup produced for sale: <u> ? </u>

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Meat Sampling Questionnaire

PB0364

Please indicate the food source for the livestock. If the food source varies based on the time of year, please include that information in your response below.

On-Site grass/hay

Please indicate the water source for the livestock. If the water source varies based on the time of year, please include that information in your response below.

On-site surface water

Describe the living conditions of the livestock (for example, free-range, kept in a barn). If this varies based on the time of year, please include that information in your response below.

Free range

Date and location of the slaughterhouse used: Cambridge, NY, Fall 2022

Packaging and storage conditions since slaughtered: Plastic tube packaging of ground beef.
Frozen

Meat Sampling Questionnaire PB0364

How many meals of livestock raised at this property (e.g. cows, chickens) is consumed by individuals in your household each week?

<i>Meat</i>				
Servings per week	Individual (age) 77	Individual (age)	Individual (age)	Individual (age)
<2	X			
2 to 4				
4 to 6				
6 to 8				
8 to 10				
10 to 15				
15 to 20				
More than 20				

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Egg Sampling Questionnaire (PB0372)

Please indicate the food source for chickens raised on this property. If the food source varies based on the time of year, please include that information in your response below.

Kitchen, yard and garden scraps, some commercial feed

Please indicate the water source for chickens raised on this property. If the water source varies based on the time of year, please include that information in your response below.

POET System

Describe the living conditions of the chickens (for example, free-range, kept in a coop). If this varies based on the time of year, please include that information in your response below.

Coup and hen-house. Off-site soil and purchased mulch used in coup area.

Egg Sampling Questionnaire (PB0372)

How many home produced eggs per week do individuals in this household consume?

<i>Eggs</i>				
Eggs per week	Individual (age)75	Individual (age)76	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X			
8 to 10				
10 to 15				
15 to 20				
More than 20				

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Fruits and Vegetables Sampling Questionnaire

PB0418

The following fruits and/or vegetables are available to be sampled at this property (please specify products below):

Berries and variety of vegetables

Are the fruits and/or vegetables grown in a raised bed? (Yes or No)

No

If Yes, please indicate the source of the soil in the raised bed NA

Please indicate the water source(s) used for irrigation of the fruits and/or vegetables to be sampled at this property and the approximate number of days per week watered. If the water source(s) vary based on time of year, please specify that below in your response.

Mostly rain but some minor amounts from POET system

Are any additives (for example, fertilizer, compost) used in growing these fruits and/or vegetables? (Yes or No) Yes

If Yes, please indicate the additive(s) used Local compost

Are pesticides applied to these fruits and/or vegetables (Yes or No) No

If yes, please indicate the name(s) of the pesticide(s) used including brand name. If this varies based on the time of year, please specify that in your response.

NA

Fruits and Vegetables Sampling Questionnaire PB0418

How many meals per week do individuals in this household consume fruit and/or vegetables grown on this property?

<i>Fruits and Vegetables</i>				
Servings per week	Individual (age)63	Individual (age)65	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X	X		
8 to10				
10 to 15				
15 to 20				
More than 20				

Do you can or preserve any of the fruits and vegetables? If so, which ones? Yes. Berries.

If you have any questions, please contact the Health Department:

NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH):

Angela Martin

NYSDOH

Bureau of Environmental Exposure Investigation

Empire State Plaza

Corning Tower Room 1787

Albany, NY 12237

(518) 402-7860

Angela.Martin@health.ny.gov

beei@health.ny.gov

Egg Sampling Questionnaire (PB0423)

Please indicate the food source for chickens raised on this property. If the food source varies based on the time of year, please include that information in your response below.

Kitchen, yard and garden scraps

Please indicate the water source for chickens raised on this property. If the water source varies based on the time of year, please include that information in your response below.

POET System

Describe the living conditions of the chickens (for example, free-range, kept in a coop). If this varies based on the time of year, please include that information in your response below.

Coup and hen-house

Egg Sampling Questionnaire (PB0423)

How many home produced eggs per week do individuals in this household consume?

<i>Eggs</i>				
Eggs per week	Individual (age)77	Individual (age)76	Individual (age)	Individual (age)
<2				
2 to 4				
4 to 6				
6 to 8	X	X		
8 to10				
10 to 15				
15 to 20				
More than 20				

If you have any questions, please contact the Health Department:

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APPENDIX C

PHASE 2B LABORATORY REPORTS-AG PRODUCTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/20/2023 2:28:35 AM

JOB DESCRIPTION

PHASE 2b RI

JOB NUMBER

410-151764-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/20/2023 2:28:35 AM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

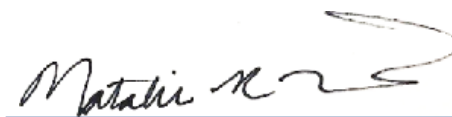


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Definitions/Glossary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Taconic Inc
Project: PHASE 2b RI

Job ID: 410-151764-1

Job ID: 410-151764-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-151764-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/17/2023 9:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

PFAS

Method 1633: Extracted internal standard (EIS) recoveries were outside QC acceptance criteria in samples Ag-Eg1-111523 (410-151764-1), Ag-Eg1W-111523 (410-151764-2) and Ag-Eg5-110123 (410-151764-3). A 10-fold dilution of the sample extract was analyzed, and the EIS recoveries were great than or equal to 5% and the data is reported.

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

Detection Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg1-111523

Lab Sample ID: 410-151764-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	1.0	cn	0.49	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Eg1W-111523

Lab Sample ID: 410-151764-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	1.2	I cn	0.49	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Eg5-110123

Lab Sample ID: 410-151764-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	2.3	I cn	0.50	0.12	ng/g	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg1-111523

Lab Sample ID: 410-151764-1

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	cn	2.0	0.36	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoropentanoic acid	ND	cn	0.98	0.13	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorohexanoic acid	ND	cn	0.49	0.16	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoroheptanoic acid	ND	cn	0.49	0.12	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorooctanoic acid	ND	cn	0.49	0.20	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorononanoic acid	ND	cn	0.49	0.15	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorodecanoic acid	ND	cn	0.49	0.21	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoroundecanoic acid	ND	cn	0.49	0.13	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorododecanoic acid	ND	cn	0.49	0.077	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorotridecanoic acid	ND	cn	0.49	0.078	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorotetradecanoic acid	ND	cn	0.49	0.10	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorobutanesulfonic acid	ND	cn	0.49	0.17	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoropentanesulfonic acid	ND	cn	0.49	0.090	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorohexanesulfonic acid	ND	cn	0.49	0.075	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoroheptanesulfonic acid	ND	cn	0.49	0.12	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorooctanesulfonic acid	1.0	cn	0.49	0.12	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorononanesulfonic acid	ND	cn	0.49	0.090	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorodecanesulfonic acid	ND	cn	0.49	0.20	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	0.49	0.11	ng/g		12/05/23 13:33	12/16/23 02:48	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	2.0	0.54	ng/g		12/05/23 13:33	12/16/23 02:48	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	2.9	1.4	ng/g		12/05/23 13:33	12/16/23 02:48	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	2.0	0.67	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluorooctanesulfonamide	ND	cn	0.49	0.092	ng/g		12/05/23 13:33	12/16/23 02:48	1
NMeFOSA	ND	cn	0.49	0.073	ng/g		12/05/23 13:33	12/16/23 02:48	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.49	0.10	ng/g		12/05/23 13:33	12/16/23 02:48	1
NMeFOSAA	ND	cn	0.49	0.20	ng/g		12/05/23 13:33	12/16/23 02:48	1
NEtFOSAA	ND	cn	0.49	0.17	ng/g		12/05/23 13:33	12/16/23 02:48	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	4.9	0.66	ng/g		12/05/23 13:33	12/16/23 02:48	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	4.9	1.8	ng/g		12/05/23 13:33	12/16/23 02:48	1
HFPO-DA	ND	cn	2.0	0.26	ng/g		12/05/23 13:33	12/16/23 02:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	2.0	0.39	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.98	0.12	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.98	0.20	ng/g		12/05/23 13:33	12/16/23 02:48	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.98	0.38	ng/g		12/05/23 13:33	12/16/23 02:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	cn	2.0	0.25	ng/g		12/05/23 13:33	12/16/23 02:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	cn	2.0	0.24	ng/g		12/05/23 13:33	12/16/23 02:48	1
PFEESA	ND	cn	0.98	0.22	ng/g		12/05/23 13:33	12/16/23 02:48	1
3:3 FTCA	ND	cn	2.4	0.70	ng/g		12/05/23 13:33	12/16/23 02:48	1
5:3 FTCA	ND	cn	12	2.1	ng/g		12/05/23 13:33	12/16/23 02:48	1
7:3 FTCA	ND	cn	12	2.9	ng/g		12/05/23 13:33	12/16/23 02:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg1-111523

Lab Sample ID: 410-151764-1

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	65.8	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C5 PFPeA	60.2	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C5 PFHxA	62.4	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C4 PFHpA	63.9	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C8 PFOA	84.8	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C9 PFNA	69.6	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C6 PFDA	69.7	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C7 PFUnA	89.6	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C2-PFDoDA	82.2	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C2 PFTeDA	10.8	*5- cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C3 PFBS	80.0	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C3 PFHxS	61.9	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C8 PFOS	64.3	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C8 FOSA	61.6	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
d3-NMeFOSAA	53.4	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
d5-NEtFOSAA	71.1	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
M2-4:2 FTS	79.6	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
M2-6:2 FTS	67.9	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
M2-8:2 FTS	48.5	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
13C3 HFPO-DA	60.7	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
d7-N-MeFOSE-M	36.0	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
d9-N-EtFOSE-M	22.3	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
d5-NEtPFOSA	28.1	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1
d3-NMePFOSA	38.9	cn	20 - 150	12/05/23 13:33	12/16/23 02:48	1

Client Sample ID: Ag-Eg1W-111523

Lab Sample ID: 410-151764-2

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	cn	2.0	0.36	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoropentanoic acid	ND	cn	0.98	0.13	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorohexanoic acid	ND	cn	0.49	0.16	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoroheptanoic acid	ND	cn	0.49	0.12	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorooctanoic acid	ND	cn	0.49	0.20	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorononanoic acid	ND	cn	0.49	0.15	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorodecanoic acid	ND	cn	0.49	0.21	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoroundecanoic acid	ND	cn	0.49	0.13	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorododecanoic acid	ND	cn	0.49	0.077	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorotridecanoic acid	ND	cn	0.49	0.078	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorotetradecanoic acid	ND	cn	0.49	0.10	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorobutanesulfonic acid	ND	cn	0.49	0.17	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoropentanesulfonic acid	ND	cn	0.49	0.090	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorohexanesulfonic acid	ND	cn	0.49	0.075	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoroheptanesulfonic acid	ND	cn	0.49	0.12	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorooctanesulfonic acid	1.2	I cn	0.49	0.12	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorononanesulfonic acid	ND	cn	0.49	0.090	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorodecanesulfonic acid	ND	cn	0.49	0.20	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	0.49	0.11	ng/g		12/05/23 13:33	12/16/23 03:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg1W-111523

Lab Sample ID: 410-151764-2

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	2.0	0.54	ng/g		12/05/23 13:33	12/16/23 03:14	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	2.9	1.4	ng/g		12/05/23 13:33	12/16/23 03:14	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	2.0	0.67	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluorooctanesulfonamide	ND	cn	0.49	0.092	ng/g		12/05/23 13:33	12/16/23 03:14	1
NMeFOSA	ND	cn	0.49	0.074	ng/g		12/05/23 13:33	12/16/23 03:14	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.49	0.10	ng/g		12/05/23 13:33	12/16/23 03:14	1
NMeFOSAA	ND	cn	0.49	0.20	ng/g		12/05/23 13:33	12/16/23 03:14	1
NEtFOSAA	ND	cn	0.49	0.17	ng/g		12/05/23 13:33	12/16/23 03:14	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	4.9	0.67	ng/g		12/05/23 13:33	12/16/23 03:14	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	4.9	1.8	ng/g		12/05/23 13:33	12/16/23 03:14	1
HFPO-DA	ND	cn	2.0	0.26	ng/g		12/05/23 13:33	12/16/23 03:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	2.0	0.39	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.98	0.12	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.98	0.20	ng/g		12/05/23 13:33	12/16/23 03:14	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.98	0.38	ng/g		12/05/23 13:33	12/16/23 03:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	cn	2.0	0.25	ng/g		12/05/23 13:33	12/16/23 03:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	cn	2.0	0.25	ng/g		12/05/23 13:33	12/16/23 03:14	1
PFEESA	ND	cn	0.98	0.23	ng/g		12/05/23 13:33	12/16/23 03:14	1
3:3 FTCA	ND	cn	2.5	0.71	ng/g		12/05/23 13:33	12/16/23 03:14	1
5:3 FTCA	ND	cn	12	2.1	ng/g		12/05/23 13:33	12/16/23 03:14	1
7:3 FTCA	ND	cn	12	2.9	ng/g		12/05/23 13:33	12/16/23 03:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	60.5	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C5 PFPeA	62.4	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C5 PFHxA	65.8	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C4 PFHpA	69.1	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C8 PFOA	66.4	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C9 PFNA	65.9	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C6 PFDA	69.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C7 PFUnA	75.6	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C2-PFDoDA	71.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C2 PFTeDA	7.27	*5- cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C3 PFBS	70.7	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C3 PFHxS	62.1	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C8 PFOS	60.4	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
13C8 FOSA	55.4	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
d3-NMeFOSAA	66.4	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
d5-NEtFOSAA	53.9	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
M2-4:2 FTS	77.2	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
M2-6:2 FTS	68.5	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1
M2-8:2 FTS	42.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg1W-111523

Lab Sample ID: 410-151764-2

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	69.9	cn	20 - 150	12/05/23 13:33	12/16/23 03:14	1
d7-N-MeFOSE-M	27.2	cn	20 - 150	12/05/23 13:33	12/16/23 03:14	1
d9-N-EtFOSE-M	17.0	*5- cn	20 - 150	12/05/23 13:33	12/16/23 03:14	1
d5-NEtPFOSA	23.2	cn	20 - 150	12/05/23 13:33	12/16/23 03:14	1
d3-NMePFOSA	29.9	cn	20 - 150	12/05/23 13:33	12/16/23 03:14	1

Client Sample ID: Ag-Eg5-110123

Lab Sample ID: 410-151764-3

Date Collected: 11/01/23 14:15

Matrix: Tissue

Date Received: 11/17/23 09:57

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	cn	2.0	0.36	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoropentanoic acid	ND	cn	1.0	0.13	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorohexanoic acid	ND	cn	0.50	0.17	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoroheptanoic acid	ND	cn	0.50	0.12	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorooctanoic acid	ND	cn	0.50	0.20	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorononanoic acid	ND	cn	0.50	0.15	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorodecanoic acid	ND	cn	0.50	0.22	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoroundecanoic acid	ND	cn	0.50	0.13	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorododecanoic acid	ND	cn	0.50	0.079	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorotridecanoic acid	ND	cn	0.50	0.080	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorotetradecanoic acid	ND	cn	0.50	0.11	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorobutanesulfonic acid	ND	cn	0.50	0.17	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoropentanesulfonic acid	ND	cn	0.50	0.092	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorohexanesulfonic acid	ND	cn	0.50	0.077	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoroheptanesulfonic acid	ND	cn	0.50	0.12	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorooctanesulfonic acid	2.3	I cn	0.50	0.12	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorononanesulfonic acid	ND	cn	0.50	0.092	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorodecanesulfonic acid	ND	F1 cn	0.50	0.20	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND	F1 F2 cn	0.50	0.11	ng/g		12/05/23 13:33	12/16/23 03:28	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	2.0	0.56	ng/g		12/05/23 13:33	12/16/23 03:28	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	3.0	1.4	ng/g		12/05/23 13:33	12/16/23 03:28	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	2.0	0.68	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluorooctanesulfonamide	ND	cn	0.50	0.094	ng/g		12/05/23 13:33	12/16/23 03:28	1
NMeFOSA	ND	cn	0.50	0.075	ng/g		12/05/23 13:33	12/16/23 03:28	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.50	0.10	ng/g		12/05/23 13:33	12/16/23 03:28	1
NMeFOSAA	ND	cn	0.50	0.21	ng/g		12/05/23 13:33	12/16/23 03:28	1
NEtFOSAA	ND	cn	0.50	0.17	ng/g		12/05/23 13:33	12/16/23 03:28	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	5.0	0.68	ng/g		12/05/23 13:33	12/16/23 03:28	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	5.0	1.9	ng/g		12/05/23 13:33	12/16/23 03:28	1
HFPO-DA	ND	cn	2.0	0.26	ng/g		12/05/23 13:33	12/16/23 03:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	2.0	0.40	ng/g		12/05/23 13:33	12/16/23 03:28	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg5-110123

Lab Sample ID: 410-151764-3

Date Collected: 11/01/23 14:15

Matrix: Tissue

Date Received: 11/17/23 09:57

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid	ND	cn	1.0	0.12	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	1.0	0.20	ng/g		12/05/23 13:33	12/16/23 03:28	1
Perfluoro-3,6-dioxahexanoic acid	ND	cn	1.0	0.39	ng/g		12/05/23 13:33	12/16/23 03:28	1
9-Chlorohexadecafluoro-3-oxanonan	ND	cn	2.0	0.26	ng/g		12/05/23 13:33	12/16/23 03:28	1
e-1-sulfonic acid									
11-Chloroeicosafluoro-3-oxaundecan	ND	cn	2.0	0.25	ng/g		12/05/23 13:33	12/16/23 03:28	1
e-1-sulfonic acid									
PFEESA	ND	cn	1.0	0.23	ng/g		12/05/23 13:33	12/16/23 03:28	1
3:3 FTCA	ND	cn	2.5	0.72	ng/g		12/05/23 13:33	12/16/23 03:28	1
5:3 FTCA	ND	cn	13	2.1	ng/g		12/05/23 13:33	12/16/23 03:28	1
7:3 FTCA	ND	cn	13	3.0	ng/g		12/05/23 13:33	12/16/23 03:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	66.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C5 PFPeA	66.0	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C5 PFHxA	70.1	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C4 PFHpA	73.0	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C8 PFOA	67.9	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C9 PFNA	68.8	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C6 PFDA	73.8	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C7 PFUnA	85.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C2-PFDoDA	70.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C2 PFTeDA	9.82	*5- cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C3 PFBS	72.2	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C3 PFHxS	64.1	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C8 PFOS	65.0	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C8 FOSA	52.9	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
d3-NMeFOSAA	56.9	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
d5-NEtFOSAA	62.4	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
M2-4:2 FTS	72.8	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
M2-6:2 FTS	73.5	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
M2-8:2 FTS	40.8	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
13C3 HFPO-DA	60.3	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
d7-N-MeFOSE-M	30.1	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
d9-N-EtFOSE-M	18.5	*5- cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
d5-NEtPFOSA	22.5	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1
d3-NMePFOSA	34.0	cn	20 - 150				12/05/23 13:33	12/16/23 03:28	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-151764-1	Ag-Eg1-111523	65.8 cn	60.2 cn	62.4 cn	63.9 cn	84.8 cn	69.6 cn	69.7 cn	89.6 cn
410-151764-1 DU	Ag-Eg1-111523	65.9	67.1	71.4	67.8	64.9	71.0	79.5	77.8
410-151764-2	Ag-Eg1W-111523	60.5 cn	62.4 cn	65.8 cn	69.1 cn	66.4 cn	65.9 cn	69.3 cn	75.6 cn
410-151764-3	Ag-Eg5-110123	66.3 cn	66.0 cn	70.1 cn	73.0 cn	67.9 cn	68.8 cn	73.8 cn	85.3 cn
410-151764-3 MS	Ag-Eg5-110123	58.4	61.3	70.1	71.6	74.7	75.1	78.3	85.1
410-151764-3 MSD	Ag-Eg5-110123	64.2	65.6	64.6	71.2	89.0	74.9	75.4	86.1
LCS 410-450295/2-A	Lab Control Sample	60.0	72.4	74.3	75.6	58.8	66.8	79.6	86.3
LLCS 410-450295/3-A	Lab Control Sample	63.5	70.2	67.5	71.9	76.7	77.0	71.6	67.7
MB 410-450295/1-A	Method Blank	47.5	67.2	73.0	79.9	72.8	74.2	77.0	82.9

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-151764-1	Ag-Eg1-111523	82.2 cn	10.8 *5- cn	80.0 cn	61.9 cn	64.3 cn	61.6 cn	53.4 cn	71.1 cn
410-151764-1 DU	Ag-Eg1-111523	77.6	9.94 *5- cn	80.8	66.1	65.2	66.0	67.7	61.8
410-151764-2	Ag-Eg1W-111523	71.3 cn	7.27 *5- cn	70.7 cn	62.1 cn	60.4 cn	55.4 cn	66.4 cn	53.9 cn
410-151764-3	Ag-Eg5-110123	70.3 cn	9.82 *5- cn	72.2 cn	64.1 cn	65.0 cn	52.9 cn	56.9 cn	62.4 cn
410-151764-3 MS	Ag-Eg5-110123	71.1	10.5 *5- cn	77.1	65.7	65.8	59.0	56.8	63.8
410-151764-3 MSD	Ag-Eg5-110123	73.4	11.1 *5- cn	86.6	69.1	72.0	57.2	64.7	91.5
LCS 410-450295/2-A	Lab Control Sample	88.9	66.5	67.2	64.4	71.8	90.3	62.5	71.1
LLCS 410-450295/3-A	Lab Control Sample	64.1	59.2	69.8	67.2	73.0	97.3	59.6	59.2
MB 410-450295/1-A	Method Blank	81.9	59.3	75.6	75.1	78.3	94.8	62.5	74.3

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
410-151764-1	Ag-Eg1-111523	79.6 cn	67.9 cn	48.5 cn	60.7 cn	36.0 cn	22.3 cn	28.1 cn	38.9 cn
410-151764-1 DU	Ag-Eg1-111523	72.4	72.1	58.5	62.6	36.4	22.3	28.2	39.9
410-151764-2	Ag-Eg1W-111523	77.2 cn	68.5 cn	42.3 cn	69.9 cn	27.2 cn	17.0 *5- cn	23.2 cn	29.9 cn
410-151764-3	Ag-Eg5-110123	72.8 cn	73.5 cn	40.8 cn	60.3 cn	30.1 cn	18.5 *5- cn	22.5 cn	34.0 cn
410-151764-3 MS	Ag-Eg5-110123	73.8	71.4	45.3	64.0	28.5	18.3 *5- cn	22.2	34.4
410-151764-3 MSD	Ag-Eg5-110123	87.3	83.1	53.6	66.4	39.9	24.2	27.0	42.4
LCS 410-450295/2-A	Lab Control Sample	65.8	59.8	81.3	66.9	55.7	51.7	34.7	52.4
LLCS 410-450295/3-A	Lab Control Sample	67.0	78.8	71.6	64.0	58.4	53.6	41.2	56.0
MB 410-450295/1-A	Method Blank	84.8	85.6	78.2	72.2	48.9	42.4	31.3	44.7

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDODA = 13C2-PFDODA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS

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Isotope Dilution Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 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
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

Job ID: 410-151764-1

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QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-450295/1-A

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorotetradecanoic acid	ND		0.50	0.11	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		12/05/23 13:33	12/16/23 02:09	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.56	ng/g		12/05/23 13:33	12/16/23 02:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		12/05/23 13:33	12/16/23 02:09	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		12/05/23 13:33	12/16/23 02:09	1
NMeFOSA	ND		0.50	0.075	ng/g		12/05/23 13:33	12/16/23 02:09	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		12/05/23 13:33	12/16/23 02:09	1
NMeFOSAA	ND		0.50	0.21	ng/g		12/05/23 13:33	12/16/23 02:09	1
NEtFOSAA	ND		0.50	0.17	ng/g		12/05/23 13:33	12/16/23 02:09	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		12/05/23 13:33	12/16/23 02:09	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		12/05/23 13:33	12/16/23 02:09	1
HFPO-DA	ND		2.0	0.26	ng/g		12/05/23 13:33	12/16/23 02:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoro-3-methoxypropanoic acid	ND		1.0	0.12	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		12/05/23 13:33	12/16/23 02:09	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		12/05/23 13:33	12/16/23 02:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		12/05/23 13:33	12/16/23 02:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		12/05/23 13:33	12/16/23 02:09	1
PFEESA	ND		1.0	0.23	ng/g		12/05/23 13:33	12/16/23 02:09	1
3:3 FTCA	ND		2.5	0.72	ng/g		12/05/23 13:33	12/16/23 02:09	1
5:3 FTCA	ND		13	2.1	ng/g		12/05/23 13:33	12/16/23 02:09	1
7:3 FTCA	ND		13	3.0	ng/g		12/05/23 13:33	12/16/23 02:09	1

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QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	47.5		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C5 PFPeA	67.2		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C5 PFHxA	73.0		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C4 PFHpA	79.9		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C8 PFOA	72.8		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C9 PFNA	74.2		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C6 PFDA	77.0		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C7 PFUnA	82.9		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C2-PFDoDA	81.9		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C2 PFTeDA	59.3		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C3 PFBS	75.6		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C3 PFHxS	75.1		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C8 PFOS	78.3		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C8 FOSA	94.8		20 - 150	12/05/23 13:33	12/16/23 02:09	1
d3-NMeFOSAA	62.5		20 - 150	12/05/23 13:33	12/16/23 02:09	1
d5-NEtFOSAA	74.3		20 - 150	12/05/23 13:33	12/16/23 02:09	1
M2-4:2 FTS	84.8		20 - 150	12/05/23 13:33	12/16/23 02:09	1
M2-6:2 FTS	85.6		20 - 150	12/05/23 13:33	12/16/23 02:09	1
M2-8:2 FTS	78.2		20 - 150	12/05/23 13:33	12/16/23 02:09	1
13C3 HFPO-DA	72.2		20 - 150	12/05/23 13:33	12/16/23 02:09	1
d7-N-MeFOSE-M	48.9		20 - 150	12/05/23 13:33	12/16/23 02:09	1
d9-N-EtFOSE-M	42.4		20 - 150	12/05/23 13:33	12/16/23 02:09	1
d5-NEtPFOSA	31.3		20 - 150	12/05/23 13:33	12/16/23 02:09	1
d3-NMePFOSA	44.7		20 - 150	12/05/23 13:33	12/16/23 02:09	1

Lab Sample ID: LCS 410-450295/2-A

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid	25.0	25.5		ng/g		102	40 - 150
Perfluoropentanoic acid	12.5	12.6		ng/g		101	40 - 150
Perfluorohexanoic acid	6.26	6.46		ng/g		103	40 - 150
Perfluoroheptanoic acid	6.26	6.03		ng/g		96	40 - 150
Perfluorooctanoic acid	6.26	8.54		ng/g		136	40 - 150
Perfluorononanoic acid	6.26	8.56		ng/g		137	40 - 150
Perfluorodecanoic acid	6.26	7.04		ng/g		113	40 - 150
Perfluoroundecanoic acid	6.26	6.79		ng/g		109	40 - 150
Perfluorododecanoic acid	6.26	7.23		ng/g		116	40 - 150
Perfluorotridecanoic acid	6.26	6.59		ng/g		105	40 - 150
Perfluorotetradecanoic acid	6.26	7.16		ng/g		114	40 - 150
Perfluorobutanesulfonic acid	5.55	5.35		ng/g		96	40 - 150
Perfluoropentanesulfonic acid	5.89	6.40		ng/g		109	40 - 150
Perfluorohexanesulfonic acid	5.72	5.66		ng/g		99	40 - 150
Perfluoroheptanesulfonic acid	5.97	5.14		ng/g		86	40 - 150
Perfluorooctanesulfonic acid	5.81	5.35		ng/g		92	40 - 150
Perfluorononanesulfonic acid	6.02	5.37		ng/g		89	40 - 150
Perfluorodecanesulfonic acid	6.04	5.50		ng/g		91	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	6.07	3.62		ng/g		60	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	23.5	24.2		ng/g		103	40 - 150

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-450295/2-A

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	23.8	28.8		ng/g		121	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	24.0	21.3		ng/g		89	40 - 150
Perfluorooctanesulfonamide	6.26	5.77		ng/g		92	40 - 150
NMeFOSA	6.26	5.62		ng/g		90	40 - 150
N-ethylperfluoro-1-octanesulfonamide	6.26	6.51		ng/g		104	40 - 150
NMeFOSAA	6.26	5.80		ng/g		93	40 - 150
NEtFOSAA	6.26	5.36		ng/g		86	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	62.6	63.1		ng/g		101	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	62.6	61.0		ng/g		97	40 - 150
HFPO-DA	25.0	24.7		ng/g		99	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	24.2		ng/g		103	40 - 150
Perfluoro-3-methoxypropanoic acid	12.5	13.1		ng/g		104	40 - 150
Perfluoro(4-methoxybutanoic acid)	12.5	12.3		ng/g		98	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	12.5	11.9		ng/g		95	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	23.3	29.9		ng/g		128	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	23.6	25.1		ng/g		106	40 - 150
PFEESA	11.1	11.2		ng/g		101	40 - 150
3:3 FTCA	31.3	32.2		ng/g		103	40 - 150
5:3 FTCA	156	147		ng/g		94	40 - 150
7:3 FTCA	156	147		ng/g		94	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	60.0		20 - 150
13C5 PFPeA	72.4		20 - 150
13C5 PFHxA	74.3		20 - 150
13C4 PFHpA	75.6		20 - 150
13C8 PFOA	58.8		20 - 150
13C9 PFNA	66.8		20 - 150
13C6 PFDA	79.6		20 - 150
13C7 PFUnA	86.3		20 - 150
13C2-PFDoDA	88.9		20 - 150
13C2 PFTeDA	66.5		20 - 150
13C3 PFBS	67.2		20 - 150
13C3 PFHxS	64.4		20 - 150
13C8 PFOS	71.8		20 - 150
13C8 FOSA	90.3		20 - 150
d3-NMeFOSAA	62.5		20 - 150
d5-NEtFOSAA	71.1		20 - 150
M2-4:2 FTS	65.8		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-450295/2-A

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450295

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	59.8		20 - 150
M2-8:2 FTS	81.3		20 - 150
13C3 HFPO-DA	66.9		20 - 150
d7-N-MeFOSE-M	55.7		20 - 150
d9-N-EtFOSE-M	51.7		20 - 150
d5-NEtPFOSA	34.7		20 - 150
d3-NMePFOSA	52.4		20 - 150

Lab Sample ID: LLCS 410-450295/3-A

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	4.00	3.91		ng/g		98	40 - 150
Perfluoropentanoic acid	2.00	2.07		ng/g		104	40 - 150
Perfluorohexanoic acid	1.00	1.10		ng/g		110	40 - 150
Perfluoroheptanoic acid	1.00	0.940		ng/g		94	40 - 150
Perfluorooctanoic acid	1.00	1.18		ng/g		118	40 - 150
Perfluorononanoic acid	1.00	1.32		ng/g		132	40 - 150
Perfluorodecanoic acid	1.00	1.07		ng/g		107	40 - 150
Perfluoroundecanoic acid	1.00	0.933		ng/g		93	40 - 150
Perfluorododecanoic acid	1.00	1.23		ng/g		123	40 - 150
Perfluorotridecanoic acid	1.00	1.10		ng/g		110	40 - 150
Perfluorotetradecanoic acid	1.00	1.13		ng/g		113	40 - 150
Perfluorobutanesulfonic acid	0.887	0.926		ng/g		104	40 - 150
Perfluoropentanesulfonic acid	0.941	0.918		ng/g		98	40 - 150
Perfluorohexanesulfonic acid	0.914	0.909		ng/g		99	40 - 150
Perfluoroheptanesulfonic acid	0.953	0.824		ng/g		86	40 - 150
Perfluorooctanesulfonic acid	0.928	0.878		ng/g		95	40 - 150
Perfluorononanesulfonic acid	0.962	0.807		ng/g		84	40 - 150
Perfluorodecanesulfonic acid	0.965	0.881		ng/g		91	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.970	0.619		ng/g		64	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.75	3.47		ng/g		93	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.80	3.42		ng/g		90	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.84	2.95		ng/g		77	40 - 150
Perfluorooctanesulfonamide	1.00	0.835		ng/g		83	40 - 150
NMeFOSA	1.00	0.957		ng/g		96	40 - 150
N-ethylperfluoro-1-octanesulfonamide	1.00	0.997		ng/g		100	40 - 150
NMeFOSAA	1.00	0.922		ng/g		92	40 - 150
NEtFOSAA	1.00	0.885		ng/g		88	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	10.0	10.3		ng/g		103	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	10.0	10.3		ng/g		103	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-450295/3-A

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	4.00	4.10		ng/g		102	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.77	4.28		ng/g		113	40 - 150
Perfluoro-3-methoxypropanoic acid	2.00	1.97		ng/g		99	40 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.73		ng/g		87	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.91		ng/g		96	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.73	4.77		ng/g		128	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	4.17		ng/g		111	40 - 150
PFEESA	1.78	1.77		ng/g		100	40 - 150
3:3 FTCA	5.01	5.00		ng/g		100	40 - 150
5:3 FTCA	25.0	25.0		ng/g		100	40 - 150
7:3 FTCA	25.0	27.2		ng/g		109	40 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	63.5		20 - 150
13C5 PFPeA	70.2		20 - 150
13C5 PFHxA	67.5		20 - 150
13C4 PFHpA	71.9		20 - 150
13C8 PFOA	76.7		20 - 150
13C9 PFNA	77.0		20 - 150
13C6 PFDA	71.6		20 - 150
13C7 PFUnA	67.7		20 - 150
13C2-PFDoDA	64.1		20 - 150
13C2 PFTeDA	59.2		20 - 150
13C3 PFBS	69.8		20 - 150
13C3 PFHxS	67.2		20 - 150
13C8 PFOS	73.0		20 - 150
13C8 FOSA	97.3		20 - 150
d3-NMeFOSAA	59.6		20 - 150
d5-NEtFOSAA	59.2		20 - 150
M2-4:2 FTS	67.0		20 - 150
M2-6:2 FTS	78.8		20 - 150
M2-8:2 FTS	71.6		20 - 150
13C3 HFPO-DA	64.0		20 - 150
d7-N-MeFOSE-M	58.4		20 - 150
d9-N-EtFOSE-M	53.6		20 - 150
d5-NEtPFOSA	41.2		20 - 150
d3-NMePFOSA	56.0		20 - 150

Lab Sample ID: 410-151764-3 MS

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg5-110123

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND	cn	24.4	26.5		ng/g		108	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-151764-3 MS

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg5-110123

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid	ND	cn	12.2	13.6		ng/g		112	40 - 150
Perfluorohexanoic acid	ND	cn	6.11	6.33		ng/g		104	40 - 150
Perfluoroheptanoic acid	ND	cn	6.11	6.35		ng/g		104	40 - 150
Perfluorooctanoic acid	ND	cn	6.11	8.20		ng/g		134	40 - 150
Perfluorononanoic acid	ND	cn	6.11	7.58		ng/g		124	40 - 150
Perfluorodecanoic acid	ND	cn	6.11	6.02		ng/g		99	40 - 150
Perfluoroundecanoic acid	ND	cn	6.11	7.47		ng/g		122	40 - 150
Perfluorododecanoic acid	ND	cn	6.11	8.16		ng/g		134	40 - 150
Perfluorotridecanoic acid	ND	cn	6.11	4.73		ng/g		77	40 - 150
Perfluorotetradecanoic acid	ND	cn	6.11	6.89		ng/g		113	40 - 150
Perfluorobutanesulfonic acid	ND	cn	5.42	5.10		ng/g		94	40 - 150
Perfluoropentanesulfonic acid	ND	cn	5.75	6.03		ng/g		105	40 - 150
Perfluorohexanesulfonic acid	ND	cn	5.58	5.66		ng/g		101	40 - 150
Perfluoroheptanesulfonic acid	ND	cn	5.82	5.57		ng/g		96	40 - 150
Perfluorooctanesulfonic acid	2.3	I cn	5.67	7.48		ng/g		92	40 - 150
Perfluorononanesulfonic acid	ND	cn	5.88	5.29		ng/g		90	40 - 150
Perfluorodecanesulfonic acid	ND	F1 cn	5.89	2.59		ng/g		44	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND	F1 F2 cn	5.92	0.540	F1	ng/g		9	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	22.9	22.8		ng/g		99	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	23.2	22.1		ng/g		95	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	23.5	24.7		ng/g		105	40 - 150
Perfluorooctanesulfonamide	ND	cn	6.11	5.73		ng/g		94	40 - 150
NMeFOSA	ND	cn	6.11	5.52		ng/g		90	40 - 150
N-ethylperfluoro-1-octanesulfonamide	ND	cn	6.11	6.47		ng/g		106	40 - 150
NMeFOSAA	ND	cn	6.11	6.30		ng/g		103	40 - 150
NEtFOSAA	ND	cn	6.11	6.83		ng/g		112	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	61.1	60.1		ng/g		98	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	61.1	61.4		ng/g		101	40 - 150
HFPO-DA	ND	cn	24.4	24.0		ng/g		98	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	23.0	25.1		ng/g		109	40 - 150
Perfluoro-3-methoxypropanoic acid	ND	cn	12.2	14.2		ng/g		116	40 - 150
Perfluoro(4-methoxybutanoic acid)	ND	cn	12.2	13.4		ng/g		109	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	12.2	11.7		ng/g		96	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	cn	22.7	15.7		ng/g		69	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	cn	23.0	17.3		ng/g		75	40 - 150
PFEESA	ND	cn	10.9	10.4		ng/g		96	40 - 150
3:3 FTCA	ND	cn	30.5	35.7		ng/g		117	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-151764-3 MS

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg5-110123

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	ND	cn	153	139		ng/g		91	40 - 150
7:3 FTCA	ND	cn	153	150		ng/g		98	40 - 150
Isotope Dilution									
	%Recovery	Qualifier	Limits						
13C4 PFBA	58.4		20 - 150						
13C5 PFPeA	61.3		20 - 150						
13C5 PFHxA	70.1		20 - 150						
13C4 PFHpA	71.6		20 - 150						
13C8 PFOA	74.7		20 - 150						
13C9 PFNA	75.1		20 - 150						
13C6 PFDA	78.3		20 - 150						
13C7 PFUnA	85.1		20 - 150						
13C2-PFDoDA	71.1		20 - 150						
13C2 PFTeDA	10.5	*5-	20 - 150						
13C3 PFBS	77.1		20 - 150						
13C3 PFHxS	65.7		20 - 150						
13C8 PFOS	65.8		20 - 150						
13C8 FOSA	59.0		20 - 150						
d3-NMeFOSAA	56.8		20 - 150						
d5-NEtFOSAA	63.8		20 - 150						
M2-4:2 FTS	73.8		20 - 150						
M2-6:2 FTS	71.4		20 - 150						
M2-8:2 FTS	45.3		20 - 150						
13C3 HFPO-DA	64.0		20 - 150						
d7-N-MeFOSE-M	28.5		20 - 150						
d9-N-EtFOSE-M	18.3	*5-	20 - 150						
d5-NEtPFOSA	22.2		20 - 150						
d3-NMePFOSA	34.4		20 - 150						

Lab Sample ID: 410-151764-3 MSD

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg5-110123

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorobutanoic acid	ND	cn	24.7	25.2		ng/g		102	40 - 150	5	30
Perfluoropentanoic acid	ND	cn	12.3	13.5		ng/g		109	40 - 150	1	30
Perfluorohexanoic acid	ND	cn	6.17	6.83		ng/g		111	40 - 150	8	30
Perfluoroheptanoic acid	ND	cn	6.17	5.96		ng/g		97	40 - 150	6	30
Perfluorooctanoic acid	ND	cn	6.17	7.46		ng/g		121	40 - 150	9	30
Perfluorononanoic acid	ND	cn	6.17	8.05		ng/g		130	40 - 150	6	30
Perfluorodecanoic acid	ND	cn	6.17	6.81		ng/g		110	40 - 150	12	30
Perfluoroundecanoic acid	ND	cn	6.17	7.53		ng/g		122	40 - 150	1	30
Perfluorododecanoic acid	ND	cn	6.17	8.10		ng/g		131	40 - 150	1	30
Perfluorotridecanoic acid	ND	cn	6.17	5.17		ng/g		84	40 - 150	9	30
Perfluorotetradecanoic acid	ND	cn	6.17	6.91		ng/g		112	40 - 150	0	30
Perfluorobutanesulfonic acid	ND	cn	5.47	5.39		ng/g		98	40 - 150	5	30
Perfluoropentanesulfonic acid	ND	cn	5.80	6.43		ng/g		111	40 - 150	6	30
Perfluorohexanesulfonic acid	ND	cn	5.64	6.03		ng/g		107	40 - 150	6	30
Perfluoroheptanesulfonic acid	ND	cn	5.88	5.19		ng/g		88	40 - 150	7	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-151764-3 MSD

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg5-110123

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	2.3	I cn	5.72	7.60		ng/g		93	40 - 150	2	30
Perfluorononanesulfonic acid	ND	cn	5.93	4.93		ng/g		83	40 - 150	7	30
Perfluorodecanesulfonic acid	ND	F1 cn	5.95	2.08	F1	ng/g		35	40 - 150	22	30
Perfluorododecanesulfonic acid (PFDoS)	ND	F1 F2 cn	5.98	0.384	J F1 F2	ng/g		6	40 - 150	34	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	23.1	19.6		ng/g		85	40 - 150	15	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	23.4	26.6		ng/g		114	40 - 150	19	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	23.7	23.0		ng/g		97	40 - 150	7	30
Perfluorooctanesulfonamide	ND	cn	6.17	5.62		ng/g		91	40 - 150	2	30
NMeFOSA	ND	cn	6.17	5.65		ng/g		92	40 - 150	2	30
N-ethylperfluoro-1-octanesulfonamide	ND	cn	6.17	6.12		ng/g		99	40 - 150	5	30
NMeFOSAA	ND	cn	6.17	7.07		ng/g		115	40 - 150	12	30
NEtFOSAA	ND	cn	6.17	5.74		ng/g		93	40 - 150	17	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	61.7	57.2		ng/g		93	40 - 150	5	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	61.7	58.8		ng/g		95	40 - 150	4	30
HFPO-DA	ND	cn	24.6	23.3		ng/g		95	40 - 150	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	23.2	23.1		ng/g		99	40 - 150	9	30
Perfluoro-3-methoxypropanoic acid	ND	cn	12.3	13.1		ng/g		106	40 - 150	8	30
Perfluoro(4-methoxybutanoic acid)	ND	cn	12.3	12.4		ng/g		100	40 - 150	8	30
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	12.3	13.4		ng/g		109	40 - 150	14	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	cn	23.0	11.7		ng/g		51	40 - 150	29	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	cn	23.2	17.7		ng/g		76	40 - 150	3	30
PFEESA	ND	cn	11.0	11.8		ng/g		108	40 - 150	13	30
3:3 FTCA	ND	cn	30.8	33.3		ng/g		108	40 - 150	7	30
5:3 FTCA	ND	cn	154	160		ng/g		104	40 - 150	14	30
7:3 FTCA	ND	cn	154	171		ng/g		111	40 - 150	13	30
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
13C4 PFBA	64.2		20 - 150								
13C5 PFPeA	65.6		20 - 150								
13C5 PFHxA	64.6		20 - 150								
13C4 PFHpA	71.2		20 - 150								
13C8 PFOA	89.0		20 - 150								
13C9 PFNA	74.9		20 - 150								
13C6 PFDA	75.4		20 - 150								
13C7 PFUnA	86.1		20 - 150								
13C2-PFDoDA	73.4		20 - 150								
13C2 PFTeDA	11.1	*5-	20 - 150								

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-151764-3 MSD

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg5-110123

Prep Type: Total/NA

Prep Batch: 450295

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C3 PFBS	86.6		20 - 150
13C3 PFHxS	69.1		20 - 150
13C8 PFOS	72.0		20 - 150
13C8 FOSA	57.2		20 - 150
d3-NMeFOSAA	64.7		20 - 150
d5-NEtFOSAA	91.5		20 - 150
M2-4:2 FTS	87.3		20 - 150
M2-6:2 FTS	83.1		20 - 150
M2-8:2 FTS	53.6		20 - 150
13C3 HFPO-DA	66.4		20 - 150
d7-N-MeFOSE-M	39.9		20 - 150
d9-N-EtFOSE-M	24.2		20 - 150
d5-NEtPFOSA	27.0		20 - 150
d3-NMePFOSA	42.4		20 - 150

Lab Sample ID: 410-151764-1 DU

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg1-111523

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample		DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Perfluorobutanoic acid	ND	cn	ND		ng/g		NC	30
Perfluoropentanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorohexanoic acid	ND	cn	ND		ng/g		NC	30
Perfluoroheptanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorooctanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorononanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorodecanoic acid	ND	cn	ND		ng/g		NC	30
Perfluoroundecanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorododecanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorotridecanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorotetradecanoic acid	ND	cn	ND		ng/g		NC	30
Perfluorobutanesulfonic acid	ND	cn	ND		ng/g		NC	30
Perfluoropentanesulfonic acid	ND	cn	ND		ng/g		NC	30
Perfluorohexanesulfonic acid	ND	cn	ND		ng/g		NC	30
Perfluoroheptanesulfonic acid	ND	cn	ND		ng/g		NC	30
Perfluorooctanesulfonic acid	1.0	cn	1.17	I	ng/g		12	30
Perfluorononanesulfonic acid	ND	cn	ND		ng/g		NC	30
Perfluorodecanesulfonic acid	ND	cn	ND		ng/g		NC	30
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	ND		ng/g		NC	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	ND		ng/g		NC	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	ND		ng/g		NC	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	ND		ng/g		NC	30
Perfluorooctanesulfonamide	ND	cn	ND		ng/g		NC	30
NMeFOSA	ND	cn	ND		ng/g		NC	30
N-ethylperfluoro-1-octanesulfonamide	ND	cn	ND		ng/g		NC	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-151764-1 DU

Matrix: Tissue

Analysis Batch: 454784

Client Sample ID: Ag-Eg1-111523

Prep Type: Total/NA

Prep Batch: 450295

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
NMeFOSAA	ND	cn	ND		ng/g		NC	30
NEtFOSAA	ND	cn	ND		ng/g		NC	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	ND		ng/g		NC	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	ND		ng/g		NC	30
HFPO-DA	ND	cn	ND		ng/g		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	ND		ng/g		NC	30
Perfluoro-3-methoxypropanoic acid	ND	cn	ND		ng/g		NC	30
Perfluoro(4-methoxybutanoic acid)	ND	cn	ND		ng/g		NC	30
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	ND		ng/g		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	cn	ND		ng/g		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	cn	ND		ng/g		NC	30
PFEESA	ND	cn	ND		ng/g		NC	30
3:3 FTCA	ND	cn	ND		ng/g		NC	30
5:3 FTCA	ND	cn	ND		ng/g		NC	30
7:3 FTCA	ND	cn	ND		ng/g		NC	30

Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	65.9		20 - 150
13C5 PFPeA	67.1		20 - 150
13C5 PFHxA	71.4		20 - 150
13C4 PFHpA	67.8		20 - 150
13C8 PFOA	64.9		20 - 150
13C9 PFNA	71.0		20 - 150
13C6 PFDA	79.5		20 - 150
13C7 PFUnA	77.8		20 - 150
13C2-PFDoDA	77.6		20 - 150
13C2 PFTeDA	9.94	*5-	20 - 150
13C3 PFBS	80.8		20 - 150
13C3 PFHxS	66.1		20 - 150
13C8 PFOS	65.2		20 - 150
13C8 FOSA	66.0		20 - 150
d3-NMeFOSAA	67.7		20 - 150
d5-NEtFOSAA	61.8		20 - 150
M2-4:2 FTS	72.4		20 - 150
M2-6:2 FTS	72.1		20 - 150
M2-8:2 FTS	58.5		20 - 150
13C3 HFPO-DA	62.6		20 - 150
d7-N-MeFOSE-M	36.4		20 - 150
d9-N-EtFOSE-M	22.3		20 - 150
d5-NEtPFOSA	28.2		20 - 150
d3-NMePFOSA	39.9		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

LCMS

Cleanup Batch: 447307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-151764-1	Ag-Eg1-111523	Total/NA	Tissue	Homogenization	
410-151764-1 - DL	Ag-Eg1-111523	Total/NA	Tissue	Homogenization	
410-151764-2 - DL	Ag-Eg1W-111523	Total/NA	Tissue	Homogenization	
410-151764-2	Ag-Eg1W-111523	Total/NA	Tissue	Homogenization	
410-151764-3	Ag-Eg5-110123	Total/NA	Tissue	Homogenization	
410-151764-3 - DL	Ag-Eg5-110123	Total/NA	Tissue	Homogenization	
410-151764-3 MS	Ag-Eg5-110123	Total/NA	Tissue	Homogenization	
410-151764-3 MSD	Ag-Eg5-110123	Total/NA	Tissue	Homogenization	
410-151764-1 DU	Ag-Eg1-111523	Total/NA	Tissue	Homogenization	
410-151764-1 DU - DL	Ag-Eg1-111523	Total/NA	Tissue	Homogenization	

Prep Batch: 450295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-151764-1	Ag-Eg1-111523	Total/NA	Tissue	1633 Shake	447307
410-151764-1 - DL	Ag-Eg1-111523	Total/NA	Tissue	1633 Shake	447307
410-151764-2	Ag-Eg1W-111523	Total/NA	Tissue	1633 Shake	447307
410-151764-2 - DL	Ag-Eg1W-111523	Total/NA	Tissue	1633 Shake	447307
410-151764-3	Ag-Eg5-110123	Total/NA	Tissue	1633 Shake	447307
410-151764-3 - DL	Ag-Eg5-110123	Total/NA	Tissue	1633 Shake	447307
MB 410-450295/1-A	Method Blank	Total/NA	Tissue	1633 Shake	
LCS 410-450295/2-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
LLCS 410-450295/3-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
410-151764-3 MS	Ag-Eg5-110123	Total/NA	Tissue	1633 Shake	447307
410-151764-3 MSD	Ag-Eg5-110123	Total/NA	Tissue	1633 Shake	447307
410-151764-1 DU	Ag-Eg1-111523	Total/NA	Tissue	1633 Shake	447307
410-151764-1 DU - DL	Ag-Eg1-111523	Total/NA	Tissue	1633 Shake	447307

Analysis Batch: 454784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-151764-1	Ag-Eg1-111523	Total/NA	Tissue	1633	450295
410-151764-2	Ag-Eg1W-111523	Total/NA	Tissue	1633	450295
410-151764-3	Ag-Eg5-110123	Total/NA	Tissue	1633	450295
MB 410-450295/1-A	Method Blank	Total/NA	Tissue	1633	450295
LCS 410-450295/2-A	Lab Control Sample	Total/NA	Tissue	1633	450295
LLCS 410-450295/3-A	Lab Control Sample	Total/NA	Tissue	1633	450295
410-151764-3 MS	Ag-Eg5-110123	Total/NA	Tissue	1633	450295
410-151764-3 MSD	Ag-Eg5-110123	Total/NA	Tissue	1633	450295
410-151764-1 DU	Ag-Eg1-111523	Total/NA	Tissue	1633	450295

Analysis Batch: 455283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-151764-1 - DL	Ag-Eg1-111523	Total/NA	Tissue	1633	450295
410-151764-2 - DL	Ag-Eg1W-111523	Total/NA	Tissue	1633	450295
410-151764-3 - DL	Ag-Eg5-110123	Total/NA	Tissue	1633	450295
410-151764-1 DU - DL	Ag-Eg1-111523	Total/NA	Tissue	1633	450295

Lab Chronicle

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Client Sample ID: Ag-Eg1-111523

Lab Sample ID: 410-151764-1

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			447307	Q5YX	ELLE	11/28/23 07:15
Total/NA	Prep	1633 Shake			450295	BX2W	ELLE	12/05/23 13:33
Total/NA	Analysis	1633		1	454784	UUV6	ELLE	12/16/23 02:48
Total/NA	Cleanup	Homogenization	DL		447307	Q5YX	ELLE	11/28/23 07:15
Total/NA	Prep	1633 Shake	DL		450295	BX2W	ELLE	12/05/23 13:33
Total/NA	Analysis	1633	DL	10	455283	UUV6	ELLE	12/18/23 21:24

Client Sample ID: Ag-Eg1W-111523

Lab Sample ID: 410-151764-2

Date Collected: 11/15/23 10:00

Matrix: Tissue

Date Received: 11/17/23 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			447307	Q5YX	ELLE	11/28/23 07:15
Total/NA	Prep	1633 Shake			450295	BX2W	ELLE	12/05/23 13:33
Total/NA	Analysis	1633		1	454784	UUV6	ELLE	12/16/23 03:14
Total/NA	Cleanup	Homogenization	DL		447307	Q5YX	ELLE	11/28/23 07:15
Total/NA	Prep	1633 Shake	DL		450295	BX2W	ELLE	12/05/23 13:33
Total/NA	Analysis	1633	DL	10	455283	UUV6	ELLE	12/18/23 21:50

Client Sample ID: Ag-Eg5-110123

Lab Sample ID: 410-151764-3

Date Collected: 11/01/23 14:15

Matrix: Tissue

Date Received: 11/17/23 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			447307	Q5YX	ELLE	11/28/23 07:15
Total/NA	Prep	1633 Shake			450295	BX2W	ELLE	12/05/23 13:33
Total/NA	Analysis	1633		1	454784	UUV6	ELLE	12/16/23 03:28
Total/NA	Cleanup	Homogenization	DL		447307	Q5YX	ELLE	11/28/23 07:15
Total/NA	Prep	1633 Shake	DL		450295	BX2W	ELLE	12/05/23 13:33
Total/NA	Analysis	1633	DL	10	455283	UUV6	ELLE	12/18/23 22:03

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
1633	1633 Shake	Tissue	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	3:3 FTCA
1633	1633 Shake	Tissue	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633 Shake	Tissue	5:3 FTCA
1633	1633 Shake	Tissue	7:3 FTCA
1633	1633 Shake	Tissue	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
1633	1633 Shake	Tissue	HFPO-DA
1633	1633 Shake	Tissue	NEtFOSAA
1633	1633 Shake	Tissue	N-ethylperfluoro-1-octanesulfonamide
1633	1633 Shake	Tissue	NMeFOSA
1633	1633 Shake	Tissue	NMeFOSAA
1633	1633 Shake	Tissue	Perfluoro(4-methoxybutanoic acid)
1633	1633 Shake	Tissue	Perfluoro-3,6-dioxaheptanoic acid
1633	1633 Shake	Tissue	Perfluoro-3-methoxypropanoic acid
1633	1633 Shake	Tissue	Perfluorobutanesulfonic acid
1633	1633 Shake	Tissue	Perfluorobutanoic acid
1633	1633 Shake	Tissue	Perfluorodecanesulfonic acid
1633	1633 Shake	Tissue	Perfluorodecanoic acid
1633	1633 Shake	Tissue	Perfluorododecanesulfonic acid (PFDoS)
1633	1633 Shake	Tissue	Perfluorododecanoic acid
1633	1633 Shake	Tissue	Perfluoroheptanesulfonic acid
1633	1633 Shake	Tissue	Perfluoroheptanoic acid
1633	1633 Shake	Tissue	Perfluorohexanesulfonic acid
1633	1633 Shake	Tissue	Perfluorohexanoic acid
1633	1633 Shake	Tissue	Perfluorononanesulfonic acid
1633	1633 Shake	Tissue	Perfluorononanoic acid
1633	1633 Shake	Tissue	Perfluorooctanesulfonamide
1633	1633 Shake	Tissue	Perfluorooctanesulfonic acid
1633	1633 Shake	Tissue	Perfluorooctanoic acid
1633	1633 Shake	Tissue	Perfluoropentanesulfonic acid
1633	1633 Shake	Tissue	Perfluoropentanoic acid
1633	1633 Shake	Tissue	Perfluorotetradecanoic acid
1633	1633 Shake	Tissue	Perfluorotridecanoic acid
1633	1633 Shake	Tissue	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	PFEESA

Method Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE
Homogenization	Preparation, Homogenization	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-151764-1	Ag-Eg1-111523	Tissue	11/15/23 10:00	11/17/23 09:57
410-151764-2	Ag-Eg1W-111523	Tissue	11/15/23 10:00	11/17/23 09:57
410-151764-3	Ag-Eg5-110123	Tissue	11/01/23 14:15	11/17/23 09:57



410-151764 Chain of Custody

Albany
#224

Environmental Analysis Request/Chain of Custody

Lancaster Laboratories
Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Taconic						Matrix Food - Agricultural Products MS/MSD Total # of Containers		Analyses Requested										For Lab Use Only				
Project Name/#: Phase 2b RI				Site ID #: 442047				Preservation and Filtration Codes										SF #: _____				
Project Manager: Jeff Mirarchi				P.O. #:														SCR #: _____				
Sampler: Taconic-J. Mirarchi				PWSID #:														Preservation Codes				
Phone #: 518.658.3202				Quote #:														H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other F = Field Filtered (Trizma)				
State where samples were collected: NY				For Compliance: Yes ☐ No ☒																		
Sample Identification					Collection																Remarks	
Sample ID	Loc.	Type	Date	Time	Grab	Composite																
Ag-Eg1-111523	Eg1	N	11/15/2023	1000		X	TA		1	X							Eggs					
Ag-Eg1W-111523	Eg1	N	11/15/2023	1000		X	TA		1	X							Eggs-washed					
Ag-Eg5-110123	Eg5	N	11/1/2023	1415		X	TA		1	X							Eggs					
Turnaround Time Requested (TAT) (please check):						Standard ☒ Rush ☐		Relinquished by: <i>[Signature]</i>		Date: 11/16/23		Time: 1030		Received by: <i>[Signature]</i>		Date: 11-16-23		Time: 1030				
Date results are needed:								Relinquished by: <i>[Signature]</i>		Date: 11-16-23		Time: 1700		Received by:		Date:		Time:				
Rush results requested by (please check):						E-Mail ☐ Phone ☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:				
E-mail Address: jeffm@4taconic.com																						
Phone: 518.658.3202 ext 328																						
Data Package Options (please check if required)						Level 2 Cat B., EDD, pdf		Relinquished by:		Date:		Time:		Received by:		Date:		Time:				
Type I (Validation/non-CLP)		☐		MA MCP		☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:				
Type III (Reduced non-CLP)		☐		CT RCP		☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:				
Type VI (Raw Data Only)		☐		TX TRRP-13		☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:				
NJ DKQP		☐		NYSDEC Category		☐ A or ☒ B		Relinquished by Commercial Carrier:		Date:		Time:		Received by:		Date:		Time:				
EDD Required?		Yes ☒ No ☐		If yes, format: <i>NYSDEC AS Per Example</i>				UPS _____ FedEx _____ Other _____		Temperature upon receipt		81.5 °C		21.5 °C								

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7045 0717

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-151764-1

Login Number: 151764

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is 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 acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

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JOB DESCRIPTION

Phase 2b RI

JOB NUMBER

410-134256-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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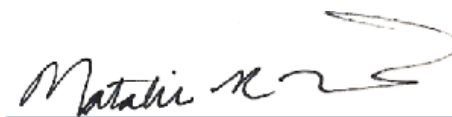


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
F2	MS/MSD RPD exceeds control limits
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Job ID: 410-134256-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-134256-1

Receipt

The samples were received on 7/12/2023 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

PFAS

Method 1633: The recovery for target analyte 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2) and 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2) and 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) is not detected in the following samples: AG-Eg1-070623 (410-134256-2) and AG-Eg2-070623 (410-134256-3), the data is reported.

Method 1633: The recovery for the labeled isotope(s) 13C2 PFTeDA in the following sample: AG-Eg2-070623 (410-134256-3) is outside the QC acceptance limits. The data is reported.

Method 1633: The recovery for the labeled isotope(s) 13C2 PFTeDA in the following sample: AG-Eg1-070623 (410-134256-2) is outside the QC acceptance limits. The data is reported.

Method PFC_IDA: The recovery for a target analyte(s) Perfluoro(4-methoxybutanoic acid), Perfluoro-3,6-dioxahexanoic acid, 3:3 FTCA and 7:3 FTCA in the laboratory control spike sample associated with the following sample: AG-Sy1-070523 (410-134256-1) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside the required holding time and the recovery for a target analyte(s) in the laboratory control spike sample(s) is again outside the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C4 PFBA, 13C5 PFPeA, 13C8 PFOA, 13C9 PFNA, 13C6 PFDA, 13C3 PFBS, 13C3 PFHxS and 13C8 PFOS in the method blank/laboratory control spike sample associated with the following sample: AG-Sy1-070523 (410-134256-1) is outside the QC acceptance limits. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the labeled isotope(s) in the re-extracted method blank/laboratory control spike sample(s) is within the QC acceptance limits.

Method PFC_IDA: The recovery for the labeled isotope(s) 13C4 PFBA, 13C8 PFOA, 13C9 PFNA, 13C6 PFDA and 13C8 PFOS in the following sample: AG-Sy1-070523 (410-134256-1) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits.

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

Detection Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Sy1-070523

Lab Sample ID: 410-134256-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.25		0.20	0.080	ng/g	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.034	J	0.060	0.020	ng/g	1		537 IDA	Total/NA

Client Sample ID: AG-Eg1-070623

Lab Sample ID: 410-134256-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.24	J	0.49	0.20	ng/g	1		1633	Total/NA
Perfluorononanoic acid	0.16	J	0.49	0.15	ng/g	1		1633	Total/NA
Perfluorodecanoic acid	0.24	J	0.49	0.21	ng/g	1		1633	Total/NA
Perfluoroundecanoic acid	0.33	J	0.49	0.13	ng/g	1		1633	Total/NA
Perfluorododecanoic acid	0.25	J	0.49	0.078	ng/g	1		1633	Total/NA

Client Sample ID: AG-Eg2-070623

Lab Sample ID: 410-134256-3

No Detections.

Client Sample ID: Ag-Bf1-070723

Lab Sample ID: 410-134256-4

No Detections.

Client Sample ID: X1-070723

Lab Sample ID: 410-134256-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Sy1-070523

Lab Sample ID: 410-134256-1

Date Collected: 07/05/23 16:00

Matrix: Solid

Date Received: 07/12/23 09:48

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	0.25		0.20	0.080	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorooctanoic acid	0.034	J	0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		07/27/23 09:20	08/19/23 13:33	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		07/27/23 09:20	08/19/23 13:33	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
NMeFOSA	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:33	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:33	1
NMeFOSAA	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
NEtFOSAA	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:33	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:33	1
HFPO-DA	ND		0.20	0.10	ng/g		07/27/23 09:20	08/19/23 13:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoro(4-methoxybutanoic acid)	ND	*- cn	0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
Perfluoro-3,6-dioxaheptanoic acid	ND	*- cn	0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
PFEESA	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
3:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
5:3 FTCA	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1
7:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Sy1-070523

Lab Sample ID: 410-134256-1

Date Collected: 07/05/23 16:00

Matrix: Solid

Date Received: 07/12/23 09:48

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	20	*5- cn	28 - 153	07/27/23 09:20	08/19/23 13:33	1
13C5 PFPeA	24	cn	24 - 161	07/27/23 09:20	08/19/23 13:33	1
13C5 PFHxA	23		10 - 174	07/27/23 09:20	08/19/23 13:33	1
13C4 PFHpA	24		10 - 178	07/27/23 09:20	08/19/23 13:33	1
13C8 PFOA	25	*5- cn	26 - 159	07/27/23 09:20	08/19/23 13:33	1
13C9 PFNA	25	*5- cn	26 - 165	07/27/23 09:20	08/19/23 13:33	1
13C6 PFDA	24	*5- cn	26 - 161	07/27/23 09:20	08/19/23 13:33	1
13C7 PFUnA	24		12 - 173	07/27/23 09:20	08/19/23 13:33	1
13C2-PFDoDA	20		11 - 166	07/27/23 09:20	08/19/23 13:33	1
13C2 PFTeDA	24		10 - 169	07/27/23 09:20	08/19/23 13:33	1
13C3 PFBS	34	cn	27 - 179	07/27/23 09:20	08/19/23 13:33	1
13C3 PFHxS	31	cn	24 - 171	07/27/23 09:20	08/19/23 13:33	1
13C8 PFOS	25	*5- cn	41 - 154	07/27/23 09:20	08/19/23 13:33	1
13C8 FOSA	29		14 - 163	07/27/23 09:20	08/19/23 13:33	1
d3-NMeFOSAA	27		10 - 178	07/27/23 09:20	08/19/23 13:33	1
d5-NEtFOSAA	30		10 - 193	07/27/23 09:20	08/19/23 13:33	1
M2-4:2 FTS	20		10 - 200	07/27/23 09:20	08/19/23 13:33	1
M2-6:2 FTS	21		10 - 200	07/27/23 09:20	08/19/23 13:33	1
M2-8:2 FTS	19		15 - 200	07/27/23 09:20	08/19/23 13:33	1
13C3 HFPO-DA	21		10 - 169	07/27/23 09:20	08/19/23 13:33	1
d7-N-MeFOSE-M	25		10 - 179	07/27/23 09:20	08/19/23 13:33	1
d9-N-EtFOSE-M	25		10 - 185	07/27/23 09:20	08/19/23 13:33	1
d5-NEtPFOSA	26		10 - 180	07/27/23 09:20	08/19/23 13:33	1
d3-NMePFOSA	27		10 - 175	07/27/23 09:20	08/19/23 13:33	1
13C-6:2 FTCA	17		10 - 200	07/27/23 09:20	08/19/23 13:33	1

Client Sample ID: AG-Eg1-070623

Lab Sample ID: 410-134256-2

Date Collected: 07/06/23 13:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorooctanoic acid	0.24	J	0.49	0.20	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorononanoic acid	0.16	J	0.49	0.15	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorodecanoic acid	0.24	J	0.49	0.21	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoroundecanoic acid	0.33	J	0.49	0.13	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorododecanoic acid	0.25	J	0.49	0.078	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoropentanesulfonic acid	ND		0.49	0.091	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorohexanesulfonic acid	ND		0.49	0.076	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorononanesulfonic acid	ND		0.49	0.091	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		08/05/23 08:33	08/18/23 17:46	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	3.0	1.4	ng/g		08/05/23 08:33	08/18/23 17:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Eg1-070623

Lab Sample ID: 410-134256-2

Date Collected: 07/06/23 13:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.67	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorooctanesulfonamide	ND		0.49	0.093	ng/g		08/05/23 08:33	08/18/23 17:46	1
NMeFOSA	ND		0.49	0.074	ng/g		08/05/23 08:33	08/18/23 17:46	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.10	ng/g		08/05/23 08:33	08/18/23 17:46	1
NMeFOSAA	ND		0.49	0.21	ng/g		08/05/23 08:33	08/18/23 17:46	1
NEtFOSAA	ND		0.49	0.17	ng/g		08/05/23 08:33	08/18/23 17:46	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.67	ng/g		08/05/23 08:33	08/18/23 17:46	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		08/05/23 08:33	08/18/23 17:46	1
HFPO-DA	ND		2.0	0.26	ng/g		08/05/23 08:33	08/18/23 17:46	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.39	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoro-3,6-dioxahexanoic acid	ND		0.99	0.38	ng/g		08/05/23 08:33	08/18/23 17:46	1
9-Chlorohexadecafluoro-3-oxanonanoic acid	ND		2.0	0.25	ng/g		08/05/23 08:33	08/18/23 17:46	1
11-Chloroeicosafluoro-3-oxaundecanoic acid	ND		2.0	0.25	ng/g		08/05/23 08:33	08/18/23 17:46	1
PFEESA	ND		0.99	0.23	ng/g		08/05/23 08:33	08/18/23 17:46	1
3:3 FTCA	ND		2.5	0.71	ng/g		08/05/23 08:33	08/18/23 17:46	1
5:3 FTCA	ND		12	2.1	ng/g		08/05/23 08:33	08/18/23 17:46	1
7:3 FTCA	ND		12	2.9	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		08/05/23 08:33	08/18/23 17:46	1
Perfluoro-3-methoxypropanoic acid	ND		0.99	0.12	ng/g		08/05/23 08:33	08/18/23 17:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	25.0		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C5 PFPeA	105		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C5 PFHxA	126		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C4 PFHpA	115		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C8 PFOA	93.1		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C9 PFNA	103		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C6 PFDA	96.2		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C7 PFUnA	70.1		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C3 PFBS	111		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C3 PFHxS	109		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C8 PFOS	91.4		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C8 FOSA	60.1		20 - 150	08/05/23 08:33	08/18/23 17:46	1
d3-NMeFOSAA	141		20 - 150	08/05/23 08:33	08/18/23 17:46	1
d5-NEtFOSAA	118		20 - 150	08/05/23 08:33	08/18/23 17:46	1
M2-6:2 FTS	117		20 - 150	08/05/23 08:33	08/18/23 17:46	1
M2-8:2 FTS	134		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C3 HFPO-DA	76.8		20 - 150	08/05/23 08:33	08/18/23 17:46	1
d7-N-MeFOSE-M	51.2		20 - 150	08/05/23 08:33	08/18/23 17:46	1
d9-N-EtFOSE-M	37.6		20 - 150	08/05/23 08:33	08/18/23 17:46	1
d5-NEtPFOSA	63.3		20 - 150	08/05/23 08:33	08/18/23 17:46	1
d3-NMePFOSA	105		20 - 150	08/05/23 08:33	08/18/23 17:46	1
13C2-PFDoDA	39.9		20 - 150	08/05/23 08:33	08/18/23 17:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Eg1-070623

Lab Sample ID: 410-134256-2

Date Collected: 07/06/23 13:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid	ND		4.9	0.79	ng/g		08/05/23 08:33	08/21/23 20:15	10
Perfluorotetradecanoic acid	ND		4.9	1.0	ng/g		08/05/23 08:33	08/21/23 20:15	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	9.52	*5- cn	20 - 150				08/05/23 08:33	08/21/23 20:15	10

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	2.0	0.55	ng/g		08/05/23 08:33	08/21/23 20:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	145		20 - 150				08/05/23 08:33	08/21/23 20:02	1

Client Sample ID: AG-Eg2-070623

Lab Sample ID: 410-134256-3

Date Collected: 07/06/23 13:30

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		08/05/23 08:33	08/18/23 17:59	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	2.0	0.56	ng/g		08/05/23 08:33	08/18/23 17:59	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	3.0	1.4	ng/g		08/05/23 08:33	08/18/23 17:59	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		08/05/23 08:33	08/18/23 17:59	1
NMeFOSA	ND		0.50	0.075	ng/g		08/05/23 08:33	08/18/23 17:59	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		08/05/23 08:33	08/18/23 17:59	1
NMeFOSAA	ND		0.50	0.21	ng/g		08/05/23 08:33	08/18/23 17:59	1
NEtFOSAA	ND		0.50	0.17	ng/g		08/05/23 08:33	08/18/23 17:59	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		08/05/23 08:33	08/18/23 17:59	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		08/05/23 08:33	08/18/23 17:59	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Eg2-070623

Lab Sample ID: 410-134256-3

Date Collected: 07/06/23 13:30

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	ND		2.0	0.26	ng/g		08/05/23 08:33	08/18/23 17:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		08/05/23 08:33	08/18/23 17:59	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		2.0	0.26	ng/g		08/05/23 08:33	08/18/23 17:59	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		2.0	0.25	ng/g		08/05/23 08:33	08/18/23 17:59	1
PFEESA	ND		1.0	0.23	ng/g		08/05/23 08:33	08/18/23 17:59	1
3:3 FTCA	ND		2.5	0.72	ng/g		08/05/23 08:33	08/18/23 17:59	1
5:3 FTCA	ND		13	2.1	ng/g		08/05/23 08:33	08/18/23 17:59	1
7:3 FTCA	ND		13	3.0	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		08/05/23 08:33	08/18/23 17:59	1
Perfluoro-3-methoxypropanoic acid	ND		1.0	0.12	ng/g		08/05/23 08:33	08/18/23 17:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	41.9		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C5 PFPeA	99.8		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C5 PFHxA	91.5		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C4 PFHpA	99.0		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C8 PFOA	82.4		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C9 PFNA	77.1		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C6 PFDA	73.2		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C7 PFUnA	58.4		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C3 PFBS	91.4		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C3 PFHxS	80.4		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C8 PFOS	67.1		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C8 FOSA	51.8		20 - 150	08/05/23 08:33	08/18/23 17:59	1
d3-NMeFOSAA	112		20 - 150	08/05/23 08:33	08/18/23 17:59	1
d5-NEtFOSAA	113		20 - 150	08/05/23 08:33	08/18/23 17:59	1
M2-4:2 FTS	121		20 - 150	08/05/23 08:33	08/18/23 17:59	1
M2-6:2 FTS	108		20 - 150	08/05/23 08:33	08/18/23 17:59	1
M2-8:2 FTS	70.9		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C3 HFPO-DA	61.3		20 - 150	08/05/23 08:33	08/18/23 17:59	1
d7-N-MeFOSE-M	28.3		20 - 150	08/05/23 08:33	08/18/23 17:59	1
d9-N-EtFOSE-M	24.9		20 - 150	08/05/23 08:33	08/18/23 17:59	1
d5-NEtPFOSA	45.4		20 - 150	08/05/23 08:33	08/18/23 17:59	1
d3-NMePFOSA	67.0		20 - 150	08/05/23 08:33	08/18/23 17:59	1
13C2-PFDoDA	32.1		20 - 150	08/05/23 08:33	08/18/23 17:59	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid	ND		5.0	0.80	ng/g		08/05/23 08:33	08/21/23 20:41	10
Perfluorotetradecanoic acid	ND		5.0	1.1	ng/g		08/05/23 08:33	08/21/23 20:41	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	6.18	*5- cn	20 - 150				08/05/23 08:33	08/21/23 20:41	10

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: Ag-Bf1-070723

Lab Sample ID: 410-134256-4

Date Collected: 07/07/23 10:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoropentanoic acid	ND		0.96	0.13	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorooctanoic acid	ND		0.48	0.20	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoropentanesulfonic acid	ND		0.48	0.088	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorooctanesulfonic acid	ND		0.48	0.12	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorononanesulfonic acid	ND		0.48	0.088	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.10	ng/g		08/05/23 08:33	08/21/23 20:54	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		1.9	0.53	ng/g		08/05/23 08:33	08/21/23 20:54	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	1.3	ng/g		08/05/23 08:33	08/21/23 20:54	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.66	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorooctanesulfonamide	ND		0.48	0.090	ng/g		08/05/23 08:33	08/21/23 20:54	1
NMeFOSA	ND		0.48	0.072	ng/g		08/05/23 08:33	08/21/23 20:54	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.098	ng/g		08/05/23 08:33	08/21/23 20:54	1
NMeFOSAA	ND		0.48	0.20	ng/g		08/05/23 08:33	08/21/23 20:54	1
NEtFOSAA	ND		0.48	0.16	ng/g		08/05/23 08:33	08/21/23 20:54	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.65	ng/g		08/05/23 08:33	08/21/23 20:54	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		08/05/23 08:33	08/21/23 20:54	1
HFPO-DA	ND		1.9	0.25	ng/g		08/05/23 08:33	08/21/23 20:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoro(4-methoxybutanoic acid)	ND		0.96	0.19	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoro-3,6-dioxahexanoic acid	ND F2		0.96	0.37	ng/g		08/05/23 08:33	08/21/23 20:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		08/05/23 08:33	08/21/23 20:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		08/05/23 08:33	08/21/23 20:54	1
PFEESA	ND		0.96	0.22	ng/g		08/05/23 08:33	08/21/23 20:54	1
3:3 FTCA	ND F2		2.4	0.69	ng/g		08/05/23 08:33	08/21/23 20:54	1
5:3 FTCA	ND		12	2.0	ng/g		08/05/23 08:33	08/21/23 20:54	1
7:3 FTCA	ND		12	2.9	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluorodecanesulfonic acid	ND		0.48	0.19	ng/g		08/05/23 08:33	08/21/23 20:54	1
Perfluoro-3-methoxypropanoic acid	ND F2		0.96	0.12	ng/g		08/05/23 08:33	08/21/23 20:54	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: Ag-Bf1-070723

Lab Sample ID: 410-134256-4

Date Collected: 07/07/23 10:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	26.2		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C5 PFPeA	76.1		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C5 PFHxA	93.5		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C4 PFHpA	89.7		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C8 PFOA	81.4		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C9 PFNA	82.7		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C6 PFDA	90.1		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C7 PFUnA	93.6		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C2 PFTeDA	47.1		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C3 PFBS	108		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C3 PFHxS	88.6		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C8 PFOS	93.0		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C8 FOSA	101		20 - 150	08/05/23 08:33	08/21/23 20:54	1
d3-NMeFOSAA	90.8		20 - 150	08/05/23 08:33	08/21/23 20:54	1
d5-NEtFOSAA	97.8		20 - 150	08/05/23 08:33	08/21/23 20:54	1
M2-4:2 FTS	88.5		20 - 150	08/05/23 08:33	08/21/23 20:54	1
M2-6:2 FTS	104		20 - 150	08/05/23 08:33	08/21/23 20:54	1
M2-8:2 FTS	95.9		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C3 HFPO-DA	84.5		20 - 150	08/05/23 08:33	08/21/23 20:54	1
d7-N-MeFOSE-M	93.8		20 - 150	08/05/23 08:33	08/21/23 20:54	1
d9-N-EtFOSE-M	79.7		20 - 150	08/05/23 08:33	08/21/23 20:54	1
d5-NEtPFOSA	31.9		20 - 150	08/05/23 08:33	08/21/23 20:54	1
d3-NMePFOSA	59.8		20 - 150	08/05/23 08:33	08/21/23 20:54	1
13C2-PFDoDA	94.2		20 - 150	08/05/23 08:33	08/21/23 20:54	1

Client Sample ID: X1-070723

Lab Sample ID: 410-134256-5

Date Collected: 07/07/23 00:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoropentanoic acid	ND		0.96	0.13	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorooctanoic acid	ND		0.48	0.19	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoropentanesulfonic acid	ND		0.48	0.088	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorooctanesulfonic acid	ND		0.48	0.12	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorononanesulfonic acid	ND		0.48	0.088	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.10	ng/g		08/05/23 08:33	08/21/23 21:20	1

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: X1-070723

Lab Sample ID: 410-134256-5

Date Collected: 07/07/23 00:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		1.9	0.53	ng/g		08/05/23 08:33	08/21/23 21:20	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	1.3	ng/g		08/05/23 08:33	08/21/23 21:20	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.65	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorooctanesulfonamide	ND		0.48	0.090	ng/g		08/05/23 08:33	08/21/23 21:20	1
NMeFOSA	ND		0.48	0.072	ng/g		08/05/23 08:33	08/21/23 21:20	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.098	ng/g		08/05/23 08:33	08/21/23 21:20	1
NMeFOSAA	ND		0.48	0.20	ng/g		08/05/23 08:33	08/21/23 21:20	1
NEtFOSAA	ND		0.48	0.16	ng/g		08/05/23 08:33	08/21/23 21:20	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.65	ng/g		08/05/23 08:33	08/21/23 21:20	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		08/05/23 08:33	08/21/23 21:20	1
HFPO-DA	ND		1.9	0.25	ng/g		08/05/23 08:33	08/21/23 21:20	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoro(4-methoxybutanoic acid)	ND		0.96	0.19	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoro-3,6-dioxahexanoic acid	ND		0.96	0.37	ng/g		08/05/23 08:33	08/21/23 21:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		08/05/23 08:33	08/21/23 21:20	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		08/05/23 08:33	08/21/23 21:20	1
PFEESA	ND		0.96	0.22	ng/g		08/05/23 08:33	08/21/23 21:20	1
3:3 FTCA	ND		2.4	0.69	ng/g		08/05/23 08:33	08/21/23 21:20	1
5:3 FTCA	ND		12	2.0	ng/g		08/05/23 08:33	08/21/23 21:20	1
7:3 FTCA	ND		12	2.8	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluorodecanesulfonic acid	ND		0.48	0.19	ng/g		08/05/23 08:33	08/21/23 21:20	1
Perfluoro-3-methoxypropanoic acid	ND		0.96	0.12	ng/g		08/05/23 08:33	08/21/23 21:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	45.0		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C5 PFPeA	74.9		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C5 PFHxA	86.6		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C4 PFHpA	75.5		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C8 PFOA	88.1		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C9 PFNA	89.9		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C6 PFDA	93.1		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C7 PFUnA	99.9		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C2 PFTeDA	57.1		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C3 PFBS	104		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C3 PFHxS	90.0		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C8 PFOS	97.9		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C8 FOSA	100		20 - 150	08/05/23 08:33	08/21/23 21:20	1
d3-NMeFOSAA	98.6		20 - 150	08/05/23 08:33	08/21/23 21:20	1
d5-NEtFOSAA	107		20 - 150	08/05/23 08:33	08/21/23 21:20	1
M2-4:2 FTS	97.2		20 - 150	08/05/23 08:33	08/21/23 21:20	1
M2-6:2 FTS	81.1	I	20 - 150	08/05/23 08:33	08/21/23 21:20	1
M2-8:2 FTS	103		20 - 150	08/05/23 08:33	08/21/23 21:20	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: X1-070723

Lab Sample ID: 410-134256-5

Date Collected: 07/07/23 00:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	79.4		20 - 150	08/05/23 08:33	08/21/23 21:20	1
d7-N-MeFOSE-M	95.0		20 - 150	08/05/23 08:33	08/21/23 21:20	1
d9-N-EtFOSE-M	86.1		20 - 150	08/05/23 08:33	08/21/23 21:20	1
d5-NEtPFOSA	32.6		20 - 150	08/05/23 08:33	08/21/23 21:20	1
d3-NMePFOSA	64.2		20 - 150	08/05/23 08:33	08/21/23 21:20	1
13C2-PFDoDA	96.7		20 - 150	08/05/23 08:33	08/21/23 21:20	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-134256-2	AG-Eg1-070623	25.0	105	126	115	93.1	103	96.2	70.1
410-134256-2 - RA	AG-Eg1-070623								
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)	M262FTS (20-150)
410-134256-2	AG-Eg1-070623	111	109	91.4	60.1	141	118		117
410-134256-2 - RA	AG-Eg1-070623							145	
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDODA (20-150)	
410-134256-2	AG-Eg1-070623	134	76.8	51.2	37.6	63.3	105	39.9	
410-134256-2 - RA	AG-Eg1-070623								
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
C8PFOS = 13C8 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									
NMFM = d7-N-MeFOSE-M									
NEFM = d9-N-EtFOSE-M									
d5NPFSA = d5-NEtPFOSA									
d3NMFSA = d3-NMePFOSA									
PFDODA = 13C2-PFDODA									

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)							
410-134256-2 - DL	AG-Eg1-070623	9.52 *5- cn							
410-134256-3 - DL	AG-Eg2-070623	6.18 *5- cn							
Surrogate Legend									
PFTDA = 13C2 PFTeDA									

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-134256-3	AG-Eg2-070623	41.9	99.8	91.5	99.0	82.4	77.1	73.2	58.4
410-134256-4	Ag-Bf1-070723	26.2	76.1	93.5	89.7	81.4	82.7	90.1	93.6
410-134256-4 MS	Ag-Bf1-070723	65.2	84.9	94.0	87.9	76.4	86.8	93.6	100
410-134256-4 MSD	Ag-Bf1-070723	28.0	84.0	90.2	97.8	74.6	93.6	93.8	86.6
410-134256-5	X1-070723	45.0	74.9	86.6	75.5	88.1	89.9	93.1	99.9
410-134256-5 DU	X1-070723	21.6	77.7	108	99.3	106	101	118	123
LCS 410-404840/2-A	Lab Control Sample	30.5	104	112	104	122	98.9	111	105
LLCS 410-404840/3-A	Lab Control Sample	45.0	96.3	100	100	91.2	103	95.1	91.3
MB 410-404840/1-A	Method Blank	36.5	94.8	95.9	91.5	81.7	84.0	87.7	84.7

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
410-134256-3	AG-Eg2-070623		91.4	80.4	67.1	51.8	112	113	121
410-134256-4	Ag-Bf1-070723	47.1	108	88.6	93.0	101	90.8	97.8	88.5
410-134256-4 MS	Ag-Bf1-070723	55.0	88.6	93.4	90.8	92.5	95.1	115	89.8
410-134256-4 MSD	Ag-Bf1-070723	44.4	96.7	91.3	87.5	106	100	113	101
410-134256-5	X1-070723	57.1	104	90.0	97.9	100	98.6	107	97.2
410-134256-5 DU	X1-070723	64.4	129	99.3	109	112	127	112	120
LCS 410-404840/2-A	Lab Control Sample	53.9	121	113	113	136	120	142	137
LLCS 410-404840/3-A	Lab Control Sample	50.6	104	90.1	105	126	106	119	104
MB 410-404840/1-A	Method Blank	38.1	100	95.3	82.3	102	92.0	102	94.4

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDODA (20-150)
410-134256-3	AG-Eg2-070623	108	70.9	61.3	28.3	24.9	45.4	67.0	32.1
410-134256-4	Ag-Bf1-070723	104 I	95.9	84.5	93.8	79.7	31.9	59.8	94.2
410-134256-4 MS	Ag-Bf1-070723	105	114	75.4	89.4	85.5	16.8 *5-	58.6	91.4
410-134256-4 MSD	Ag-Bf1-070723	89.7	114	79.9	91.9	90.2	17.2 *5-	64.1	90.6
410-134256-5	X1-070723	81.1 I	103	79.4	95.0	86.1	32.6	64.2	96.7
410-134256-5 DU	X1-070723	113	108	96.9	111	101	39.7	70.9	124
LCS 410-404840/2-A	Lab Control Sample	140	147	98.3	125	114	54.1	102	95.4
LLCS 410-404840/3-A	Lab Control Sample	125	107	87.2	118	108	47.9	94.0	89.8
MB 410-404840/1-A	Method Blank	116	117	82.5	88.5	83.5	44.5	77.4	76.9

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-134256-1

Project/Site: Phase 2b RI

d5NEFOS = d5-NEtFOSAA

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = d3-NMePFOSA

PFDODA = 13C2-PFDODA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (28-153)	PFPeA (24-161)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)	13C7PUA (12-173)
410-134256-1	AG-Sy1-070523	20 *5- cn	24 cn	23	24	25 *5- cn	25 *5- cn	24 *5- cn	24
LCS 410-401405/2-B	Lab Control Sample	16 *5-	17 *5-	19	21	19 *5-	20 *5-	19 *5-	19
LCSD 410-401405/3-B	Lab Control Sample Dup	17 *5-	18 *5-	19	20	19 *5-	19 *5-	19 *5-	18
MB 410-401405/1-B	Method Blank	15 *5-	15 *5-	18	19	19 *5-	19 *5-	18 *5-	18

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDODA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	PFOSA (14-163)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-134256-1	AG-Sy1-070523	20	24	34 cn	31 cn	25 *5- cn	29	27	30
LCS 410-401405/2-B	Lab Control Sample	17	18	23 *5-	26	21 *5-	25	22	26
LCSD 410-401405/3-B	Lab Control Sample Dup	16	18	26 *5-	26	21 *5-	26	23	30
MB 410-401405/1-B	Method Blank	16	17	21 *5-	23 *5-	19 *5-	21	22	25

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (10-200)	M262FTS (10-200)	M282FTS (15-200)	HFPODA (10-169)	NMFM (10-179)	NEFM (10-185)	d5NPFSA (10-180)	d3NMFSA (10-175)
410-134256-1	AG-Sy1-070523	20	21	19	21	25	25	26	27
LCS 410-401405/2-B	Lab Control Sample	14	16	16	17	21	22	21	23
LCSD 410-401405/3-B	Lab Control Sample Dup	14	16	17	14	20	22	23	24
MB 410-401405/1-B	Method Blank	13	15	15	12	18	20	18	20

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	MFHEA (10-200)
410-134256-1	AG-Sy1-070523	17
LCS 410-401405/2-B	Lab Control Sample	17
LCSD 410-401405/3-B	Lab Control Sample Dup	16
MB 410-401405/1-B	Method Blank	14

Surrogate Legend

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

13C5PHA = 13C5 PFHxA

C4PFHA = 13C4 PFHpA

C8PFOA = 13C8 PFOA

C9PFNA = 13C9 PFNA

C6PFDA = 13C6 PFDA

13C7PUA = 13C7 PFUnA

PFDODA = 13C2-PFDODA

PFTDA = 13C2 PFTeDA

C3PFBS = 13C3 PFBS

C3PFHS = 13C3 PFHxS

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

C8PFOS = 13C8 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
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
MFHEA = 13C-6:2 FTCA

Job ID: 410-134256-1

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QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-404840/1-A

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 404840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorotetradecanoic acid	ND		0.50	0.11	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorooctanesulfonic acid	0.140	J	0.50	0.12	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		08/05/23 08:33	08/18/23 17:07	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.56	ng/g		08/05/23 08:33	08/18/23 17:07	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		08/05/23 08:33	08/18/23 17:07	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		08/05/23 08:33	08/18/23 17:07	1
NMeFOSA	ND		0.50	0.075	ng/g		08/05/23 08:33	08/18/23 17:07	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		08/05/23 08:33	08/18/23 17:07	1
NMeFOSAA	ND		0.50	0.21	ng/g		08/05/23 08:33	08/18/23 17:07	1
NEtFOSAA	ND		0.50	0.17	ng/g		08/05/23 08:33	08/18/23 17:07	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		08/05/23 08:33	08/18/23 17:07	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		08/05/23 08:33	08/18/23 17:07	1
HFPO-DA	ND		2.0	0.26	ng/g		08/05/23 08:33	08/18/23 17:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoro-3,6-dioxahexanoic acid	ND		1.0	0.39	ng/g		08/05/23 08:33	08/18/23 17:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		08/05/23 08:33	08/18/23 17:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		08/05/23 08:33	08/18/23 17:07	1
PFEESA	ND		1.0	0.23	ng/g		08/05/23 08:33	08/18/23 17:07	1
3:3 FTCA	ND		2.5	0.72	ng/g		08/05/23 08:33	08/18/23 17:07	1
5:3 FTCA	ND		13	2.1	ng/g		08/05/23 08:33	08/18/23 17:07	1
7:3 FTCA	ND		13	3.0	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		08/05/23 08:33	08/18/23 17:07	1
Perfluoro-3-methoxypropanoic acid	ND		1.0	0.12	ng/g		08/05/23 08:33	08/18/23 17:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	36.5		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C5 PFPeA	94.8		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C5 PFHxA	95.9		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C4 PFHpA	91.5		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C8 PFOA	81.7		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C9 PFNA	84.0		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C6 PFDA	87.7		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C7 PFUnA	84.7		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C2 PFTeDA	38.1		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C3 PFBS	100		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C3 PFHxS	95.3		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C8 PFOS	82.3		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C8 FOSA	102		20 - 150	08/05/23 08:33	08/18/23 17:07	1
d3-NMeFOSAA	92.0		20 - 150	08/05/23 08:33	08/18/23 17:07	1
d5-NEtFOSAA	102		20 - 150	08/05/23 08:33	08/18/23 17:07	1
M2-4:2 FTS	94.4		20 - 150	08/05/23 08:33	08/18/23 17:07	1
M2-6:2 FTS	116		20 - 150	08/05/23 08:33	08/18/23 17:07	1
M2-8:2 FTS	117		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C3 HFPO-DA	82.5		20 - 150	08/05/23 08:33	08/18/23 17:07	1
d7-N-MeFOSE-M	88.5		20 - 150	08/05/23 08:33	08/18/23 17:07	1
d9-N-EtFOSE-M	83.5		20 - 150	08/05/23 08:33	08/18/23 17:07	1
d5-NEtPFOSA	44.5		20 - 150	08/05/23 08:33	08/18/23 17:07	1
d3-NMePFOSA	77.4		20 - 150	08/05/23 08:33	08/18/23 17:07	1
13C2-PFDoDA	76.9		20 - 150	08/05/23 08:33	08/18/23 17:07	1

Lab Sample ID: LCS 410-404840/2-A

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.0	22.4		ng/g		90	40 - 150
Perfluoropentanoic acid	12.5	11.7		ng/g		93	40 - 150
Perfluorohexanoic acid	6.26	5.85		ng/g		94	40 - 150
Perfluoroheptanoic acid	6.26	6.07		ng/g		97	40 - 150
Perfluorooctanoic acid	6.26	5.68		ng/g		91	40 - 150
Perfluorononanoic acid	6.26	5.73		ng/g		92	40 - 150
Perfluorodecanoic acid	6.26	5.25		ng/g		84	40 - 150
Perfluoroundecanoic acid	6.26	6.05		ng/g		97	40 - 150
Perfluorododecanoic acid	6.26	5.97		ng/g		95	40 - 150
Perfluorotridecanoic acid	6.26	5.64		ng/g		90	40 - 150
Perfluorotetradecanoic acid	6.26	5.89		ng/g		94	40 - 150
Perfluorobutanesulfonic acid	5.55	4.62		ng/g		83	40 - 150
Perfluoropentanesulfonic acid	5.89	4.76		ng/g		81	40 - 150
Perfluorohexanesulfonic acid	5.72	5.32		ng/g		93	40 - 150
Perfluoroheptanesulfonic acid	5.97	5.08		ng/g		85	40 - 150
Perfluorooctanesulfonic acid	5.81	5.25		ng/g		90	40 - 150
Perfluorononanesulfonic acid	6.02	5.20		ng/g		86	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	6.07	2.85		ng/g		47	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	23.5	26.9		ng/g		115	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	23.8	19.4		ng/g		82	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-404840/2-A

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	24.0	21.9		ng/g		91	40 - 150
Perfluorooctanesulfonamide	6.26	5.90		ng/g		94	40 - 150
NMeFOSA	6.26	5.95		ng/g		95	40 - 150
N-ethylperfluoro-1-octanesulfonamide	6.26	6.17		ng/g		99	40 - 150
NMeFOSAA	6.26	5.72		ng/g		91	40 - 150
NEtFOSAA	6.26	5.54		ng/g		88	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	62.6	59.5		ng/g		95	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	62.6	57.8		ng/g		92	40 - 150
HFPO-DA	25.0	22.6		ng/g		90	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	20.0		ng/g		85	40 - 150
Perfluoro(4-methoxybutanoic acid)	12.5	11.4		ng/g		91	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	12.5	11.2		ng/g		90	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	23.4	22.0		ng/g		94	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	23.6	20.2		ng/g		86	40 - 150
PFEESA	11.1	9.31		ng/g		84	40 - 150
3:3 FTCA	31.3	15.2		ng/g		49	40 - 150
5:3 FTCA	156	143		ng/g		92	40 - 150
7:3 FTCA	156	157		ng/g		100	40 - 150
Perfluorodecanesulfonic acid	6.04	4.34		ng/g		72	40 - 150
Perfluoro-3-methoxypropanoic acid	12.5	5.47		ng/g		44	40 - 150

LCS LCS			
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	30.5		20 - 150
13C5 PFPeA	104		20 - 150
13C5 PFHxA	112		20 - 150
13C4 PFHpA	104		20 - 150
13C8 PFOA	122		20 - 150
13C9 PFNA	98.9		20 - 150
13C6 PFDA	111		20 - 150
13C7 PFUnA	105		20 - 150
13C2 PFTeDA	53.9		20 - 150
13C3 PFBS	121		20 - 150
13C3 PFHxS	113		20 - 150
13C8 PFOS	113		20 - 150
13C8 FOSA	136		20 - 150
d3-NMeFOSAA	120		20 - 150
d5-NEtFOSAA	142		20 - 150
M2-4:2 FTS	137		20 - 150
M2-6:2 FTS	140		20 - 150

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-404840/2-A

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 404840

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-8:2 FTS	147		20 - 150
13C3 HFPO-DA	98.3		20 - 150
d7-N-MeFOSE-M	125		20 - 150
d9-N-EtFOSE-M	114		20 - 150
d5-NEtPFOSA	54.1		20 - 150
d3-NMePFOSA	102		20 - 150
13C2-PFDoDA	95.4		20 - 150

Lab Sample ID: LLCS 410-404840/3-A

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluorobutanoic acid	4.00	3.43		ng/g		86	40 - 150	
Perfluoropentanoic acid	2.00	1.80		ng/g		90	40 - 150	
Perfluorohexanoic acid	1.00	0.893		ng/g		89	40 - 150	
Perfluoroheptanoic acid	1.00	0.840		ng/g		84	40 - 150	
Perfluorooctanoic acid	1.00	0.997		ng/g		100	40 - 150	
Perfluorononanoic acid	1.00	0.944		ng/g		94	40 - 150	
Perfluorodecanoic acid	1.00	0.967		ng/g		97	40 - 150	
Perfluoroundecanoic acid	1.00	0.941		ng/g		94	40 - 150	
Perfluorododecanoic acid	1.00	0.832		ng/g		83	40 - 150	
Perfluorotridecanoic acid	1.00	0.897		ng/g		90	40 - 150	
Perfluorotetradecanoic acid	1.00	0.890		ng/g		89	40 - 150	
Perfluorobutanesulfonic acid	0.887	0.691		ng/g		78	40 - 150	
Perfluoropentanesulfonic acid	0.941	0.767		ng/g		81	40 - 150	
Perfluorohexanesulfonic acid	0.914	0.783		ng/g		86	40 - 150	
Perfluoroheptanesulfonic acid	0.953	0.746		ng/g		78	40 - 150	
Perfluorooctanesulfonic acid	0.928	0.846		ng/g		91	40 - 150	
Perfluorononanesulfonic acid	0.962	0.794		ng/g		83	40 - 150	
Perfluorododecanesulfonic acid (PFDoS)	0.970	0.421 J		ng/g		43	40 - 150	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.75	3.70		ng/g		99	40 - 150	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.80	3.02		ng/g		79	40 - 150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.84	3.47		ng/g		90	40 - 150	
Perfluorooctanesulfonamide	1.00	0.911		ng/g		91	40 - 150	
NMeFOSA	1.00	0.902		ng/g		90	40 - 150	
N-ethylperfluoro-1-octanesulfonamide	1.00	0.988		ng/g		99	40 - 150	
NMeFOSAA	1.00	0.945		ng/g		94	40 - 150	
NEtFOSAA	1.00	0.956		ng/g		96	40 - 150	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	10.0	8.57		ng/g		86	40 - 150	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	10.0	8.78		ng/g		88	40 - 150	
HFPO-DA	4.00	3.49		ng/g		87	40 - 150	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-404840/3-A

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.94		ng/g		104	40 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.58		ng/g		79	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.95		ng/g		97	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	3.16		ng/g		84	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.34		ng/g		88	40 - 150
PFEESA	1.78	1.48		ng/g		83	40 - 150
3:3 FTCA	5.01	3.71		ng/g		74	40 - 150
5:3 FTCA	25.0	21.4		ng/g		85	40 - 150
7:3 FTCA	25.0	22.8		ng/g		91	40 - 150
Perfluorodecanesulfonic acid	0.965	0.665		ng/g		69	40 - 150
Perfluoro-3-methoxypropanoic acid	2.00	1.40		ng/g		70	40 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	45.0		20 - 150
13C5 PFPeA	96.3		20 - 150
13C5 PFHxA	100		20 - 150
13C4 PFHpA	100		20 - 150
13C8 PFOA	91.2		20 - 150
13C9 PFNA	103		20 - 150
13C6 PFDA	95.1		20 - 150
13C7 PFUnA	91.3		20 - 150
13C2 PFTeDA	50.6		20 - 150
13C3 PFBS	104		20 - 150
13C3 PFHxS	90.1		20 - 150
13C8 PFOS	105		20 - 150
13C8 FOSA	126		20 - 150
d3-NMeFOSAA	106		20 - 150
d5-NEtFOSAA	119		20 - 150
M2-4:2 FTS	104		20 - 150
M2-6:2 FTS	125		20 - 150
M2-8:2 FTS	107		20 - 150
13C3 HFPO-DA	87.2		20 - 150
d7-N-MeFOSE-M	118		20 - 150
d9-N-EtFOSE-M	108		20 - 150
d5-NEtPFOSA	47.9		20 - 150
d3-NMePFOSA	94.0		20 - 150
13C2-PFDoDA	89.8		20 - 150

Lab Sample ID: 410-134256-4 MS

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Ag-Bf1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND		24.3	24.8		ng/g		102	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-134256-4 MS

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Ag-Bf1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid	ND		12.2	11.8		ng/g		97	40 - 150
Perfluorohexanoic acid	ND		6.08	5.57		ng/g		92	40 - 150
Perfluoroheptanoic acid	ND		6.08	6.29		ng/g		104	40 - 150
Perfluorooctanoic acid	ND		6.08	5.63		ng/g		93	40 - 150
Perfluorononanoic acid	ND		6.08	5.61		ng/g		92	40 - 150
Perfluorodecanoic acid	ND		6.08	5.74		ng/g		94	40 - 150
Perfluoroundecanoic acid	ND		6.08	5.56		ng/g		91	40 - 150
Perfluorododecanoic acid	ND		6.08	5.95		ng/g		98	40 - 150
Perfluorotridecanoic acid	ND		6.08	5.03		ng/g		83	40 - 150
Perfluorotetradecanoic acid	ND		6.08	5.54		ng/g		91	40 - 150
Perfluorobutanesulfonic acid	ND		5.39	4.75		ng/g		88	40 - 150
Perfluoropentanesulfonic acid	ND		5.72	4.45		ng/g		78	40 - 150
Perfluorohexanesulfonic acid	ND		5.55	4.41		ng/g		79	40 - 150
Perfluoroheptanesulfonic acid	ND		5.79	4.44		ng/g		77	40 - 150
Perfluorooctanesulfonic acid	ND		5.64	4.68		ng/g		83	40 - 150
Perfluorononanesulfonic acid	ND		5.85	5.01		ng/g		86	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND		5.90	2.91		ng/g		49	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		22.8	26.9		ng/g		118	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		23.1	20.2		ng/g		87	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		23.3	23.6		ng/g		101	40 - 150
Perfluorooctanesulfonamide	ND		6.08	5.95		ng/g		98	40 - 150
NMeFOSA	ND		6.08	6.08		ng/g		100	40 - 150
N-ethylperfluoro-1-octanesulfonamide	ND		6.08	6.14		ng/g		101	40 - 150
NMeFOSAA	ND		6.08	6.50		ng/g		107	40 - 150
NEtFOSAA	ND		6.08	5.52		ng/g		91	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		60.8	54.6		ng/g		90	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		60.8	52.2		ng/g		86	40 - 150
HFPO-DA	ND		24.3	24.0		ng/g		99	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		22.9	23.4		ng/g		102	40 - 150
Perfluoro(4-methoxybutanoic acid)	ND		12.2	11.1		ng/g		92	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND	F2	12.2	13.4		ng/g		110	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		22.7	23.5		ng/g		104	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		22.9	22.4		ng/g		98	40 - 150
PFEESA	ND		10.8	9.03		ng/g		83	40 - 150
3:3 FTCA	ND	F2	30.4	28.1		ng/g		93	40 - 150
5:3 FTCA	ND		152	137		ng/g		90	40 - 150
7:3 FTCA	ND		152	142		ng/g		93	40 - 150
Perfluorodecanesulfonic acid	ND		5.86	4.37		ng/g		75	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-134256-4 MS

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Ag-Bf1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-3-methoxypropanoic acid	ND	F2	12.2	12.5		ng/g		103	40 - 150
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
13C4 PFBA	65.2		20 - 150						
13C5 PFPeA	84.9		20 - 150						
13C5 PFHxA	94.0		20 - 150						
13C4 PFHpA	87.9		20 - 150						
13C8 PFOA	76.4		20 - 150						
13C9 PFNA	86.8		20 - 150						
13C6 PFDA	93.6		20 - 150						
13C7 PFUnA	100		20 - 150						
13C2 PFTeDA	55.0		20 - 150						
13C3 PFBS	88.6		20 - 150						
13C3 PFHxS	93.4		20 - 150						
13C8 PFOS	90.8		20 - 150						
13C8 FOSA	92.5		20 - 150						
d3-NMeFOSAA	95.1		20 - 150						
d5-NEtFOSAA	115		20 - 150						
M2-4:2 FTS	89.8		20 - 150						
M2-6:2 FTS	105		20 - 150						
M2-8:2 FTS	114		20 - 150						
13C3 HFPO-DA	75.4		20 - 150						
d7-N-MeFOSE-M	89.4		20 - 150						
d9-N-EtFOSE-M	85.5		20 - 150						
d5-NEtPFOSA	16.8	*5-	20 - 150						
d3-NMePFOSA	58.6		20 - 150						
13C2-PFDoDA	91.4		20 - 150						

Lab Sample ID: 410-134256-4 MSD

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Ag-Bf1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		24.4	22.9		ng/g		94	40 - 150	8	30
Perfluoropentanoic acid	ND		12.2	11.4		ng/g		93	40 - 150	4	30
Perfluorohexanoic acid	ND		6.11	5.84		ng/g		96	40 - 150	5	30
Perfluoroheptanoic acid	ND		6.11	4.97		ng/g		81	40 - 150	23	30
Perfluorooctanoic acid	ND		6.11	5.74		ng/g		94	40 - 150	2	30
Perfluorononanoic acid	ND		6.11	5.24		ng/g		86	40 - 150	7	30
Perfluorodecanoic acid	ND		6.11	5.81		ng/g		95	40 - 150	1	30
Perfluoroundecanoic acid	ND		6.11	6.48		ng/g		106	40 - 150	15	30
Perfluorododecanoic acid	ND		6.11	5.89		ng/g		96	40 - 150	1	30
Perfluorotridecanoic acid	ND		6.11	4.84		ng/g		79	40 - 150	4	30
Perfluorotetradecanoic acid	ND		6.11	6.01		ng/g		98	40 - 150	8	30
Perfluorobutanesulfonic acid	ND		5.42	4.62		ng/g		85	40 - 150	3	30
Perfluoropentanesulfonic acid	ND		5.75	4.89		ng/g		85	40 - 150	9	30
Perfluorohexanesulfonic acid	ND		5.58	4.54		ng/g		81	40 - 150	3	30
Perfluoroheptanesulfonic acid	ND		5.82	4.96		ng/g		85	40 - 150	11	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-134256-4 MSD

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Ag-Bf1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	ND		5.67	5.29		ng/g		93	40 - 150	12	30
Perfluorononanesulfonic acid	ND		5.88	5.57		ng/g		95	40 - 150	11	30
Perfluorododecanesulfonic acid (PFDoS)	ND		5.92	2.79		ng/g		47	40 - 150	4	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		22.9	25.0		ng/g		109	40 - 150	7	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		23.2	23.6		ng/g		102	40 - 150	16	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		23.5	23.3		ng/g		99	40 - 150	2	30
Perfluorooctanesulfonamide	ND		6.11	5.62		ng/g		92	40 - 150	6	30
NMeFOSA	ND		6.11	6.40		ng/g		105	40 - 150	5	30
N-ethylperfluoro-1-octanesulfonamide	ND		6.11	6.84		ng/g		112	40 - 150	11	30
NMeFOSAA	ND		6.11	6.25		ng/g		102	40 - 150	4	30
NEtFOSAA	ND		6.11	5.58		ng/g		91	40 - 150	1	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		61.1	56.5		ng/g		93	40 - 150	4	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		61.1	54.0		ng/g		88	40 - 150	3	30
HFPO-DA	ND		24.4	21.7		ng/g		89	40 - 150	10	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		23.0	22.6		ng/g		98	40 - 150	3	30
Perfluoro(4-methoxybutanoic acid)	ND		12.2	11.7		ng/g		96	40 - 150	5	30
Perfluoro-3,6-dioxaheptanoic acid	ND	F2	12.2	8.30	F2	ng/g		68	40 - 150	47	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		22.8	22.4		ng/g		98	40 - 150	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		23.0	21.1		ng/g		92	40 - 150	6	30
PFEESA	ND		10.9	9.47		ng/g		87	40 - 150	5	30
3:3 FTCA	ND	F2	30.5	20.0	F2	ng/g		66	40 - 150	34	30
5:3 FTCA	ND		153	142		ng/g		93	40 - 150	4	30
7:3 FTCA	ND		153	148		ng/g		97	40 - 150	4	30
Perfluorodecanesulfonic acid	ND		5.89	4.66		ng/g		79	40 - 150	7	30
Perfluoro-3-methoxypropanoic acid	ND	F2	12.2	7.16	F2	ng/g		59	40 - 150	55	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	28.0		20 - 150
13C5 PFPeA	84.0		20 - 150
13C5 PFHxA	90.2		20 - 150
13C4 PFHpA	97.8		20 - 150
13C8 PFOA	74.6		20 - 150
13C9 PFNA	93.6		20 - 150
13C6 PFDA	93.8		20 - 150
13C7 PFUnA	86.6		20 - 150
13C2 PFTeDA	44.4		20 - 150
13C3 PFBS	96.7		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-134256-4 MSD

Matrix: Tissue

Analysis Batch: 409967

Client Sample ID: Ag-Bf1-070723

Prep Type: Total/NA

Prep Batch: 404840

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 PFHxS	91.3		20 - 150
13C8 PFOS	87.5		20 - 150
13C8 FOSA	106		20 - 150
d3-NMeFOSAA	100		20 - 150
d5-NEtFOSAA	113		20 - 150
M2-4:2 FTS	101		20 - 150
M2-6:2 FTS	89.7		20 - 150
M2-8:2 FTS	114		20 - 150
13C3 HFPO-DA	79.9		20 - 150
d7-N-MeFOSE-M	91.9		20 - 150
d9-N-EtFOSE-M	90.2		20 - 150
d5-NEtPFOSA	17.2	*5-	20 - 150
d3-NMePFOSA	64.1		20 - 150
13C2-PFDoDA	90.6		20 - 150

Lab Sample ID: 410-134256-5 DU

Matrix: Tissue

Analysis Batch: 410572

Client Sample ID: X1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Sample		DU DU		Unit	D	RPD RPD	
	Result	Qualifier	Result	Qualifier			Limit	
Perfluorobutanoic acid	ND		ND		ng/g		NC	30
Perfluoropentanoic acid	ND		ND		ng/g		NC	30
Perfluorohexanoic acid	ND		ND		ng/g		NC	30
Perfluoroheptanoic acid	ND		ND		ng/g		NC	30
Perfluorooctanoic acid	ND		ND		ng/g		NC	30
Perfluorononanoic acid	ND		ND		ng/g		NC	30
Perfluorodecanoic acid	ND		ND		ng/g		NC	30
Perfluoroundecanoic acid	ND		ND		ng/g		NC	30
Perfluorododecanoic acid	ND		ND		ng/g		NC	30
Perfluorotridecanoic acid	ND		ND		ng/g		NC	30
Perfluorotetradecanoic acid	ND		ND		ng/g		NC	30
Perfluorobutanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoropentanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorohexanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoroheptanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorooctanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorononanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorododecanesulfonic acid (PFDoS)	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		ND		ng/g		NC	30
Perfluorooctanesulfonamide	ND		ND		ng/g		NC	30
NMeFOSA	ND		ND		ng/g		NC	30
N-ethylperfluoro-1-octanesulfonamide	ND		ND		ng/g		NC	30
NMeFOSAA	ND		ND		ng/g		NC	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-134256-5 DU

Matrix: Tissue

Analysis Batch: 410572

Client Sample ID: X1-070723

Prep Type: Total/NA

Prep Batch: 404840

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
NEtFOSAA	ND		ND		ng/g		NC	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		ND		ng/g		NC	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		ND		ng/g		NC	30
HFPO-DA	ND		ND		ng/g		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		ND		ng/g		NC	30
Perfluoro(4-methoxybutanoic acid)	ND		ND		ng/g		NC	30
Perfluoro-3,6-dioxaheptanoic acid	ND		ND		ng/g		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		ND		ng/g		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		ND		ng/g		NC	30
PFEESA	ND		ND		ng/g		NC	30
3:3 FTCA	ND		ND		ng/g		NC	30
5:3 FTCA	ND		ND		ng/g		NC	30
7:3 FTCA	ND		ND		ng/g		NC	30
Perfluorodecanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoro-3-methoxypropanoic acid	ND		ND		ng/g		NC	30

Isotope Dilution	%Recovery	DU Qualifier	Limits
13C4 PFBA	21.6		20 - 150
13C5 PFPeA	77.7		20 - 150
13C5 PFHxA	108		20 - 150
13C4 PFHpA	99.3		20 - 150
13C8 PFOA	106		20 - 150
13C9 PFNA	101		20 - 150
13C6 PFDA	118		20 - 150
13C7 PFUnA	123		20 - 150
13C2 PFTeDA	64.4		20 - 150
13C3 PFBS	129		20 - 150
13C3 PFHxS	99.3		20 - 150
13C8 PFOS	109		20 - 150
13C8 FOSA	112		20 - 150
d3-NMeFOSAA	127		20 - 150
d5-NEtFOSAA	112		20 - 150
M2-4:2 FTS	120		20 - 150
M2-6:2 FTS	113		20 - 150
M2-8:2 FTS	108		20 - 150
13C3 HFPO-DA	96.9		20 - 150
d7-N-MeFOSE-M	111		20 - 150
d9-N-EtFOSE-M	101		20 - 150
d5-NEtPFOSA	39.7		20 - 150
d3-NMePFOSA	70.9		20 - 150
13C2-PFDoDA	124		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-401405/1-B

Matrix: Solid

Analysis Batch: 410121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 401405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		0.20	0.080	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		07/27/23 09:20	08/19/23 13:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		07/27/23 09:20	08/19/23 13:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
NMeFOSA	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:00	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:00	1
NMeFOSAA	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
NEtFOSAA	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:00	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		07/27/23 09:20	08/19/23 13:00	1
HFPO-DA	ND		0.20	0.10	ng/g		07/27/23 09:20	08/19/23 13:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.20	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
PFEESA	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
3:3 FTCA	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
5:3 FTCA	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1
7:3 FTCA	ND		0.060	0.020	ng/g		07/27/23 09:20	08/19/23 13:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	15	*5-	28 - 153	07/27/23 09:20	08/19/23 13:00	1
13C5 PFPeA	15	*5-	24 - 161	07/27/23 09:20	08/19/23 13:00	1
13C5 PFHxA	18		10 - 174	07/27/23 09:20	08/19/23 13:00	1
13C4 PFHpA	19		10 - 178	07/27/23 09:20	08/19/23 13:00	1
13C8 PFOA	19	*5-	26 - 159	07/27/23 09:20	08/19/23 13:00	1
13C9 PFNA	19	*5-	26 - 165	07/27/23 09:20	08/19/23 13:00	1
13C6 PFDA	18	*5-	26 - 161	07/27/23 09:20	08/19/23 13:00	1
13C7 PFUnA	18		12 - 173	07/27/23 09:20	08/19/23 13:00	1
13C2-PFDoDA	16		11 - 166	07/27/23 09:20	08/19/23 13:00	1
13C2 PFTeDA	17		10 - 169	07/27/23 09:20	08/19/23 13:00	1
13C3 PFBS	21	*5-	27 - 179	07/27/23 09:20	08/19/23 13:00	1
13C3 PFHxS	23	*5-	24 - 171	07/27/23 09:20	08/19/23 13:00	1
13C8 PFOS	19	*5-	41 - 154	07/27/23 09:20	08/19/23 13:00	1
13C8 FOSA	21		14 - 163	07/27/23 09:20	08/19/23 13:00	1
d3-NMeFOSAA	22		10 - 178	07/27/23 09:20	08/19/23 13:00	1
d5-NEtFOSAA	25		10 - 193	07/27/23 09:20	08/19/23 13:00	1
M2-4:2 FTS	13		10 - 200	07/27/23 09:20	08/19/23 13:00	1
M2-6:2 FTS	15		10 - 200	07/27/23 09:20	08/19/23 13:00	1
M2-8:2 FTS	15		15 - 200	07/27/23 09:20	08/19/23 13:00	1
13C3 HFPO-DA	12		10 - 169	07/27/23 09:20	08/19/23 13:00	1
d7-N-MeFOSE-M	18		10 - 179	07/27/23 09:20	08/19/23 13:00	1
d9-N-EtFOSE-M	20		10 - 185	07/27/23 09:20	08/19/23 13:00	1
d5-NEtPFOSA	18		10 - 180	07/27/23 09:20	08/19/23 13:00	1
d3-NMePFOSA	20		10 - 175	07/27/23 09:20	08/19/23 13:00	1
13C-6:2 FTCA	14		10 - 200	07/27/23 09:20	08/19/23 13:00	1

Lab Sample ID: LCS 410-401405/2-B

Matrix: Solid

Analysis Batch: 410121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 401405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	1.28	1.13		ng/g		88	60 - 128
Perfluoropentanoic acid	1.28	1.14		ng/g		89	58 - 134
Perfluorohexanoic acid	1.28	1.11		ng/g		87	59 - 132
Perfluoroheptanoic acid	1.28	1.22		ng/g		95	59 - 137
Perfluorooctanoic acid	1.28	1.20		ng/g		94	59 - 131
Perfluorononanoic acid	1.28	1.27		ng/g		100	61 - 134
Perfluorodecanoic acid	1.28	1.29		ng/g		101	56 - 133
Perfluoroundecanoic acid	1.28	1.34		ng/g		104	60 - 134
Perfluorododecanoic acid	1.28	1.35		ng/g		106	60 - 135
Perfluorotridecanoic acid	1.28	1.45		ng/g		113	53 - 143
Perfluorotetradecanoic acid	1.28	1.27		ng/g		99	62 - 134
Perfluorobutanesulfonic acid	1.13	1.08		ng/g		95	54 - 130
Perfluoropentanesulfonic acid	1.20	1.19		ng/g		99	57 - 133
Perfluorohexanesulfonic acid	1.17	1.05		ng/g		90	59 - 129
Perfluoroheptanesulfonic acid	1.22	1.03		ng/g		84	59 - 132
Perfluorooctanesulfonic acid	1.18	1.36		ng/g		115	61 - 126
Perfluorononanesulfonic acid	1.23	1.45		ng/g		118	60 - 132
Perfluorodecanesulfonic acid	1.23	1.43		ng/g		116	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	1.24	1.51		ng/g		122	38 - 145

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-401405/2-B

Matrix: Solid

Analysis Batch: 410121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 401405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.20	1.29		ng/g		108	58 - 131
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.21	1.06		ng/g		87	59 - 135
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.23	1.11		ng/g		90	55 - 133
Perfluorooctanesulfonamide	1.28	1.23		ng/g		96	47 - 149
NMeFOSA	1.28	1.25		ng/g		97	60 - 129
N-ethylperfluoro-1-octanesulfonamide	1.28	1.27		ng/g		99	60 - 123
NMeFOSAA	1.28	1.42		ng/g		111	60 - 134
NEtFOSAA	1.28	1.21		ng/g		94	57 - 127
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.28	1.34		ng/g		104	60 - 130
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.28	1.30		ng/g		102	60 - 126
HFPO-DA	1.28	0.921		ng/g		72	49 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.21	1.00		ng/g		83	57 - 137
Perfluoro-3-methoxypropanoic acid	1.28	1.26		ng/g		98	70 - 130
Perfluoro(4-methoxybutanoic acid)	1.28	0.894		ng/g		70	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	1.28	0.931		ng/g		73	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.19	1.43		ng/g		120	62 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.19	1.49		ng/g		125	55 - 135
PFEESA	1.14	1.13		ng/g		99	70 - 130
3:3 FTCA	1.28	1.92	*+	ng/g		150	70 - 130
5:3 FTCA	1.28	1.54		ng/g		120	70 - 130
7:3 FTCA	1.28	1.79	*+	ng/g		140	70 - 130

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	16	*5-	28 - 153
13C5 PFPeA	17	*5-	24 - 161
13C5 PFHxA	19		10 - 174
13C4 PFHpA	21		10 - 178
13C8 PFOA	19	*5-	26 - 159
13C9 PFNA	20	*5-	26 - 165
13C6 PFDA	19	*5-	26 - 161
13C7 PFUnA	19		12 - 173
13C2-PFDoDA	17		11 - 166
13C2 PFTeDA	18		10 - 169
13C3 PFBS	23	*5-	27 - 179
13C3 PFHxS	26		24 - 171
13C8 PFOS	21	*5-	41 - 154
13C8 FOSA	25		14 - 163
d3-NMeFOSAA	22		10 - 178

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-401405/2-B

Matrix: Solid

Analysis Batch: 410121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 401405

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	26		10 - 193
M2-4:2 FTS	14		10 - 200
M2-6:2 FTS	16		10 - 200
M2-8:2 FTS	16		15 - 200
13C3 HFPO-DA	17		10 - 169
d7-N-MeFOSE-M	21		10 - 179
d9-N-EtFOSE-M	22		10 - 185
d5-NEtPFOSA	21		10 - 180
d3-NMePFOSA	23		10 - 175
13C-6:2 FTCA	17		10 - 200

Lab Sample ID: LCSD 410-401405/3-B

Matrix: Solid

Analysis Batch: 410121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 401405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid	1.28	1.13		ng/g		89	60 - 128	1	30	
Perfluoropentanoic acid	1.28	1.16		ng/g		91	58 - 134	2	30	
Perfluorohexanoic acid	1.28	1.16		ng/g		91	59 - 132	4	30	
Perfluoroheptanoic acid	1.28	1.27		ng/g		99	59 - 137	4	30	
Perfluorooctanoic acid	1.28	1.28		ng/g		100	59 - 131	6	30	
Perfluorononanoic acid	1.28	1.23		ng/g		96	61 - 134	4	30	
Perfluorodecanoic acid	1.28	1.17		ng/g		92	56 - 133	9	30	
Perfluoroundecanoic acid	1.28	1.26		ng/g		98	60 - 134	6	30	
Perfluorododecanoic acid	1.28	1.41		ng/g		110	60 - 135	4	30	
Perfluorotridecanoic acid	1.28	1.41		ng/g		110	53 - 143	3	30	
Perfluorotetradecanoic acid	1.28	1.18		ng/g		92	62 - 134	7	30	
Perfluorobutanesulfonic acid	1.13	1.04		ng/g		92	54 - 130	3	30	
Perfluoropentanesulfonic acid	1.20	1.10		ng/g		91	57 - 133	8	30	
Perfluorohexanesulfonic acid	1.17	1.08		ng/g		93	59 - 129	4	30	
Perfluoroheptanesulfonic acid	1.22	1.12		ng/g		92	59 - 132	8	30	
Perfluorooctanesulfonic acid	1.18	1.31		ng/g		111	61 - 126	3	30	
Perfluorononanesulfonic acid	1.23	1.35		ng/g		110	60 - 132	7	30	
Perfluorodecanesulfonic acid	1.23	1.40		ng/g		113	57 - 132	2	30	
Perfluorododecanesulfonic acid (PFDoS)	1.24	1.38		ng/g		112	38 - 145	9	30	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.20	1.26		ng/g		105	58 - 131	3	30	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.21	1.04		ng/g		86	59 - 135	2	30	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.23	0.965		ng/g		79	55 - 133	14	30	
Perfluorooctanesulfonamide	1.28	1.20		ng/g		94	47 - 149	3	30	
NMeFOSA	1.28	1.18		ng/g		92	60 - 129	6	30	
N-ethylperfluoro-1-octanesulfonamide	1.28	1.19		ng/g		93	60 - 123	6	30	
NMeFOSAA	1.28	1.22		ng/g		95	60 - 134	15	30	
NEtFOSAA	1.28	1.04		ng/g		81	57 - 127	15	30	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.28	1.36		ng/g		106	60 - 130	2	30	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-401405/3-B

Matrix: Solid

Analysis Batch: 410121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 401405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol HFPO-DA	1.28	1.26		ng/g		99	60 - 126	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.28	1.18		ng/g		92	49 - 135	25	30
Perfluoro-3-methoxypropanoic acid	1.21	1.01		ng/g		84	57 - 137	1	30
Perfluoro(4-methoxybutanoic acid)	1.28	1.20		ng/g		94	70 - 130	5	30
Perfluoro-3,6-dioxaheptanoic acid	1.28	0.843	*-	ng/g		66	70 - 130	6	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.28	0.844	*-	ng/g		66	70 - 130	10	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.19	1.29		ng/g		108	62 - 130	10	30
PFEESA	1.19	1.37		ng/g		115	55 - 135	8	30
3:3 FTCA	1.14	1.05		ng/g		92	70 - 130	8	30
5:3 FTCA	1.28	1.99	*+	ng/g		155	70 - 130	3	30
7:3 FTCA	1.28	1.57		ng/g		123	70 - 130	2	30
	1.28	1.97	*+	ng/g		154	70 - 130	10	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	17	*5-	28 - 153
13C5 PFPeA	18	*5-	24 - 161
13C5 PFHxA	19		10 - 174
13C4 PFHpA	20		10 - 178
13C8 PFOA	19	*5-	26 - 159
13C9 PFNA	19	*5-	26 - 165
13C6 PFDA	19	*5-	26 - 161
13C7 PFUnA	18		12 - 173
13C2-PFDoDA	16		11 - 166
13C2 PFTeDA	18		10 - 169
13C3 PFBS	26	*5-	27 - 179
13C3 PFHxS	26		24 - 171
13C8 PFOS	21	*5-	41 - 154
13C8 FOSA	26		14 - 163
d3-NMeFOSAA	23		10 - 178
d5-NEtFOSAA	30		10 - 193
M2-4:2 FTS	14		10 - 200
M2-6:2 FTS	16		10 - 200
M2-8:2 FTS	17		15 - 200
13C3 HFPO-DA	14		10 - 169
d7-N-MeFOSE-M	20		10 - 179
d9-N-EtFOSE-M	22		10 - 185
d5-NEtPFOSA	23		10 - 180
d3-NMePFOSA	24		10 - 175
13C-6:2 FTCA	16		10 - 200

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

LCMS

Prep Batch: 401405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-1	AG-Sy1-070523	Total/NA	Solid	FDA	
MB 410-401405/1-B	Method Blank	Total/NA	Solid	FDA	
LCS 410-401405/2-B	Lab Control Sample	Total/NA	Solid	FDA	
LCSD 410-401405/3-B	Lab Control Sample Dup	Total/NA	Solid	FDA	

Cleanup Batch: 402645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-1	AG-Sy1-070523	Total/NA	Solid	Extract Aliquot	401405
MB 410-401405/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	401405
LCS 410-401405/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	401405
LCSD 410-401405/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	401405

Prep Batch: 404840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-2 - RA	AG-Eg1-070623	Total/NA	Tissue	1633 Shake	
410-134256-2 - DL	AG-Eg1-070623	Total/NA	Tissue	1633 Shake	
410-134256-2	AG-Eg1-070623	Total/NA	Tissue	1633 Shake	
410-134256-3 - RA	AG-Eg2-070623	Total/NA	Tissue	1633 Shake	
410-134256-3 - DL	AG-Eg2-070623	Total/NA	Tissue	1633 Shake	
410-134256-3	AG-Eg2-070623	Total/NA	Tissue	1633 Shake	
410-134256-4	Ag-Bf1-070723	Total/NA	Tissue	1633 Shake	
410-134256-5	X1-070723	Total/NA	Tissue	1633 Shake	
MB 410-404840/1-A	Method Blank	Total/NA	Tissue	1633 Shake	
LCS 410-404840/2-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
LLCS 410-404840/3-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
410-134256-4 MS	Ag-Bf1-070723	Total/NA	Tissue	1633 Shake	
410-134256-4 MSD	Ag-Bf1-070723	Total/NA	Tissue	1633 Shake	
410-134256-5 DU	X1-070723	Total/NA	Tissue	1633 Shake	

Analysis Batch: 409967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-2	AG-Eg1-070623	Total/NA	Tissue	1633	404840
410-134256-3	AG-Eg2-070623	Total/NA	Tissue	1633	404840
MB 410-404840/1-A	Method Blank	Total/NA	Tissue	1633	404840
LCS 410-404840/2-A	Lab Control Sample	Total/NA	Tissue	1633	404840
LLCS 410-404840/3-A	Lab Control Sample	Total/NA	Tissue	1633	404840
410-134256-4 MS	Ag-Bf1-070723	Total/NA	Tissue	1633	404840
410-134256-4 MSD	Ag-Bf1-070723	Total/NA	Tissue	1633	404840

Analysis Batch: 410121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-1	AG-Sy1-070523	Total/NA	Solid	537 IDA	402645
MB 410-401405/1-B	Method Blank	Total/NA	Solid	537 IDA	402645
LCS 410-401405/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	402645
LCSD 410-401405/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	402645

Analysis Batch: 410572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-2 - RA	AG-Eg1-070623	Total/NA	Tissue	1633	404840
410-134256-2 - DL	AG-Eg1-070623	Total/NA	Tissue	1633	404840
410-134256-3 - RA	AG-Eg2-070623	Total/NA	Tissue	1633	404840

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

LCMS (Continued)

Analysis Batch: 410572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-3 - DL	AG-Eg2-070623	Total/NA	Tissue	1633	404840
410-134256-4	Ag-Bf1-070723	Total/NA	Tissue	1633	404840
410-134256-5	X1-070723	Total/NA	Tissue	1633	404840
410-134256-5 DU	X1-070723	Total/NA	Tissue	1633	404840

Prep Batch: 413744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-1 - RE	AG-Sy1-070523	Total/NA	Solid	FDA	
MB 410-413744/1-B	Method Blank	Total/NA	Solid	FDA	
LCS 410-413744/2-B	Lab Control Sample	Total/NA	Solid	FDA	
LCSD 410-413744/3-B	Lab Control Sample Dup	Total/NA	Solid	FDA	

Cleanup Batch: 414326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-1 - RE	AG-Sy1-070523	Total/NA	Solid	Extract Aliquot	413744
MB 410-413744/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	413744
LCS 410-413744/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	413744
LCSD 410-413744/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	413744

Analysis Batch: 416983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134256-1 - RE	AG-Sy1-070523	Total/NA	Solid	537 IDA	414326
MB 410-413744/1-B	Method Blank	Total/NA	Solid	537 IDA	414326
LCS 410-413744/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	414326
LCSD 410-413744/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	414326

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Client Sample ID: AG-Sy1-070523

Lab Sample ID: 410-134256-1

Date Collected: 07/05/23 16:00

Matrix: Solid

Date Received: 07/12/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			401405	D5VP	ELLE	07/27/23 09:20
Total/NA	Cleanup	Extract Aliquot			402645	D5VP	ELLE	07/31/23 12:15
Total/NA	Analysis	537 IDA		1	410121	JVK6	ELLE	08/19/23 13:33
Total/NA	Prep	FDA	RE		413744	D5VP	ELLE	08/29/23 09:57
Total/NA	Cleanup	Extract Aliquot	RE		414326	D5VP	ELLE	08/30/23 12:11
Total/NA	Analysis	537 IDA	RE	1	416983	I5JH	ELLE	09/07/23 16:21

Client Sample ID: AG-Eg1-070623

Lab Sample ID: 410-134256-2

Date Collected: 07/06/23 13:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake	RA		404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633	RA	1	410572	UUV6	ELLE	08/21/23 20:02
Total/NA	Prep	1633 Shake	DL		404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633	DL	10	410572	UUV6	ELLE	08/21/23 20:15
Total/NA	Prep	1633 Shake			404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633		1	409967	QY4X	ELLE	08/18/23 17:46

Client Sample ID: AG-Eg2-070623

Lab Sample ID: 410-134256-3

Date Collected: 07/06/23 13:30

Matrix: Tissue

Date Received: 07/12/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake	RA		404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633	RA	1	410572	UUV6	ELLE	08/21/23 20:28
Total/NA	Prep	1633 Shake	DL		404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633	DL	10	410572	UUV6	ELLE	08/21/23 20:41
Total/NA	Prep	1633 Shake			404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633		1	409967	QY4X	ELLE	08/18/23 17:59

Client Sample ID: Ag-Bf1-070723

Lab Sample ID: 410-134256-4

Date Collected: 07/07/23 10:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633		1	410572	UUV6	ELLE	08/21/23 20:54

Client Sample ID: X1-070723

Lab Sample ID: 410-134256-5

Date Collected: 07/07/23 00:00

Matrix: Tissue

Date Received: 07/12/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			404840	BX2W	ELLE	08/05/23 08:33
Total/NA	Analysis	1633		1	410572	UUV6	ELLE	08/21/23 21:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
1633	1633 Shake	Tissue	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	3:3 FTCA
1633	1633 Shake	Tissue	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633 Shake	Tissue	5:3 FTCA
1633	1633 Shake	Tissue	7:3 FTCA
1633	1633 Shake	Tissue	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
1633	1633 Shake	Tissue	HFPO-DA
1633	1633 Shake	Tissue	NEtFOSAA
1633	1633 Shake	Tissue	N-ethylperfluoro-1-octanesulfonamide
1633	1633 Shake	Tissue	NMeFOSA
1633	1633 Shake	Tissue	NMeFOSAA
1633	1633 Shake	Tissue	Perfluoro(4-methoxybutanoic acid)
1633	1633 Shake	Tissue	Perfluoro-3,6-dioxaheptanoic acid
1633	1633 Shake	Tissue	Perfluoro-3-methoxypropanoic acid
1633	1633 Shake	Tissue	Perfluorobutanesulfonic acid
1633	1633 Shake	Tissue	Perfluorobutanoic acid
1633	1633 Shake	Tissue	Perfluorodecanesulfonic acid
1633	1633 Shake	Tissue	Perfluorodecanoic acid
1633	1633 Shake	Tissue	Perfluorododecanesulfonic acid (PFDoS)
1633	1633 Shake	Tissue	Perfluorododecanoic acid
1633	1633 Shake	Tissue	Perfluoroheptanesulfonic acid
1633	1633 Shake	Tissue	Perfluoroheptanoic acid
1633	1633 Shake	Tissue	Perfluorohexanesulfonic acid
1633	1633 Shake	Tissue	Perfluorohexanoic acid
1633	1633 Shake	Tissue	Perfluorononanesulfonic acid
1633	1633 Shake	Tissue	Perfluorononanoic acid
1633	1633 Shake	Tissue	Perfluorooctanesulfonamide
1633	1633 Shake	Tissue	Perfluorooctanesulfonic acid
1633	1633 Shake	Tissue	Perfluorooctanoic acid
1633	1633 Shake	Tissue	Perfluoropentanesulfonic acid
1633	1633 Shake	Tissue	Perfluoropentanoic acid
1633	1633 Shake	Tissue	Perfluorotetradecanoic acid
1633	1633 Shake	Tissue	Perfluorotridecanoic acid
1633	1633 Shake	Tissue	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	PFEESA
537 IDA	FDA	Solid	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
537 IDA	FDA	Solid	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 IDA	FDA	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
537 IDA	FDA	Solid	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 IDA	FDA	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
537 IDA	FDA	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
537 IDA	FDA	Solid	3:3 FTCA
537 IDA	FDA	Solid	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 IDA	FDA	Solid	5:3 FTCA
537 IDA	FDA	Solid	7:3 FTCA
537 IDA	FDA	Solid	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537 IDA	FDA	Solid	HFPO-DA
537 IDA	FDA	Solid	NEtFOSAA
537 IDA	FDA	Solid	N-ethylperfluoro-1-octanesulfonamide
537 IDA	FDA	Solid	NMeFOSA
537 IDA	FDA	Solid	NMeFOSAA
537 IDA	FDA	Solid	Perfluoro(4-methoxybutanoic acid)
537 IDA	FDA	Solid	Perfluoro-3,6-dioxaheptanoic acid
537 IDA	FDA	Solid	Perfluoro-3-methoxypropanoic acid
537 IDA	FDA	Solid	Perfluorobutanesulfonic acid
537 IDA	FDA	Solid	Perfluorobutanoic acid
537 IDA	FDA	Solid	Perfluorodecanesulfonic acid
537 IDA	FDA	Solid	Perfluorodecanoic acid
537 IDA	FDA	Solid	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	FDA	Solid	Perfluorododecanoic acid
537 IDA	FDA	Solid	Perfluoroheptanesulfonic acid
537 IDA	FDA	Solid	Perfluoroheptanoic acid
537 IDA	FDA	Solid	Perfluorohexanesulfonic acid
537 IDA	FDA	Solid	Perfluorohexanoic acid
537 IDA	FDA	Solid	Perfluorononanesulfonic acid
537 IDA	FDA	Solid	Perfluorononanoic acid
537 IDA	FDA	Solid	Perfluorooctanesulfonamide
537 IDA	FDA	Solid	Perfluorooctanesulfonic acid
537 IDA	FDA	Solid	Perfluorooctanoic acid
537 IDA	FDA	Solid	Perfluoropentanesulfonic acid
537 IDA	FDA	Solid	Perfluoropentanoic acid
537 IDA	FDA	Solid	Perfluorotetradecanoic acid
537 IDA	FDA	Solid	Perfluorotridecanoic acid
537 IDA	FDA	Solid	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	FDA	Solid	PFEESA

Method Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
FDA	Shake Extraction with Ultrasonic Bath Extraction	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-134256-1	AG-Sy1-070523	Solid	07/05/23 16:00	07/12/23 09:48
410-134256-2	AG-Eg1-070623	Tissue	07/06/23 13:00	07/12/23 09:48
410-134256-3	AG-Eg2-070623	Tissue	07/06/23 13:30	07/12/23 09:48
410-134256-4	Ag-Bf1-070723	Tissue	07/07/23 10:00	07/12/23 09:48
410-134256-5	X1-070723	Tissue	07/07/23 00:00	07/12/23 09:48

Albair
#22



410-134256 Chain of Custody

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Taconic						Matrix		Analyses Requested										For Lab Use Only		
Project Name/#: Phase 2b RI				Site ID #: 442047		Food- Agricultural Products MS/MSD Total # of Containers PFAS EPA 1633/FDA		Preservation and Filtration Codes										SF #: _____		
Project Manager: Jeff Mirarchi				P.O. #:														SCR #: _____		
Sampler: Taconic-J. Mirarchi				PWSID #:																
Phone #: 518.658.3202				Quote #:																
State where samples were collected: NY				For Compliance: Yes ☐ No ☒																
Sample Identification					Collection															
Sample ID	Loc.	Type	Date	Time	Grab	Composite														
Ag-Sy1-070523	Sy1	N	7/5/2023	1600	X		TP		1	X										
Ag-Eg1-070623	Eg1	N	7/6/2023	1300		X	TA		2	X										
Ag-Eg2-070623	Eg2	N	7/6/2023	1330		X	TA		2	X										
Ag-Bf1-070723	Bf1	N	7/7/2023	1000	X		TA	X	3	X										
X1-070723		FD	7/7/2023		X		TA		1	X										
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐								Relinquished by: <i>Debra A. Byer</i>		Date: 7/11/23		Time: 11:00 AM		Received by: <i>Tim Krollmeyer</i>		Date: 7-11-23		Time: 11:00		
(Rush TAT is subject to laboratory approval and surcharges.)								Relinquished by: <i>Tim Krollmeyer</i>		Date: 7-11-23		Time: 12:00		Received by:		Date:		Time:		
Date results are needed:								Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
Rush results requested by (please check): E-Mail ☐ Phone ☐								Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
E-mail Address: jeffm@4taconic.com								Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
Phone: 518.658.3202 ext 328								Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
Data Package Options (please check if required) Level 2 Cat B., EDD, pdf								Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
Type I (Validation/non-CLP)		☐		MA MCP		☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
Type III (Reduced non-CLP)		☐		CT RCP		☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
Type VI (Raw Data Only)		☐		TX TRRP-13		☐		Relinquished by:		Date:		Time:		Received by:		Date:		Time:		
NJ DKQP		☐		NYSDEC Category		☐ A or ☒ B		Relinquished by Commercial Carrier:		Date:		Time:		Received by:		Date:		Time:		
EDD Required?		Yes ☒ No ☐		If yes, format: <i>NYSDEC As Per Example</i>				UPS ☐ FedEx ☒ Other ☐		Date:		Time:		Received by:		Date:		Time:		
								Temperature upon receipt		11.1		11.2		°C						

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7045 0717

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-134256-1

Login Number: 134256

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is 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 ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 10/18/2023 4:19:57 AM

JOB DESCRIPTION

Phase 2b RI

JOB NUMBER

410-141095-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/18/2023 4:19:57 AM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

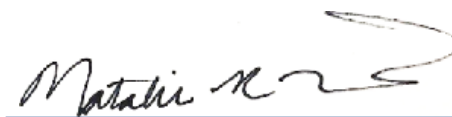


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Job ID: 410-141095-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-141095-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/31/2023 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: X2-082423 (410-141095-13) and X3-082423 (410-141095-27). Entered as 00:00.

ID date entered based on collection date - COC has 082523, sample collected 08/24/23.

Ag-Fr3-082423 (410-141095-12)

PFAS

Method 1633: The LCS/LCSD labeled isotope(s) M2-4:2 FTS recovery associated with samples: Ag-Vg1-082523 (410-141095-3), Ag-Vg2-082523 (410-141095-4), Ag-Vg3-082423 (410-141095-6), Ag-Vg4-082423 (410-141095-7), Ag-Vg5-082423 (410-141095-8), Ag-Vg5-082423 (410-141095-8[MS]), Ag-Vg5-082423 (410-141095-8[MSD]), Ag-Vg6-082423 (410-141095-9), Ag-Vg7-082423 (410-141095-10), Ag-Vg8-082423 (410-141095-11), X2-082423 (410-141095-13), Ag-Vg9-082423 (410-141095-17), Ag-Vg10-082423 (410-141095-18), Ag-Vg11-082423 (410-141095-19), Ag-Vg12-082423 (410-141095-20), Ag-Vg13-082423 (410-141095-21), Ag-Vg13-082423 (410-141095-21[MS]), Ag-Vg13-082423 (410-141095-21[MSD]), Ag-Vg14-082423 (410-141095-22), Ag-Vg15-082423 (410-141095-23), Ag-Vg16-082423 (410-141095-25), Ag-Vg17-082423 (410-141095-26), X3-082423 (410-141095-27), Ag-Vg18-082423 (410-141095-28), Ag-Vg19-082423 (410-141095-30), (410-141095-A-17-C DU) and (410-141095-A-30-C DU) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

Method 1633: The recovery for the labeled isotope(s) 13C4 PFBA and 13C5 PFPeA in the method blank and laboratory control spike samples associated with the following samples: Ag-Vg1-082523 (410-141095-3), Ag-Vg2-082523 (410-141095-4), Ag-Vg3-082423 (410-141095-6), Ag-Vg4-082423 (410-141095-7), Ag-Vg5-082423 (410-141095-8), Ag-Vg5-082423 (410-141095-8[MS]), Ag-Vg5-082423 (410-141095-8[MSD]), Ag-Vg6-082423 (410-141095-9), Ag-Vg7-082423 (410-141095-10), Ag-Vg8-082423 (410-141095-11), X2-082423 (410-141095-13), Ag-Vg9-082423 (410-141095-17), Ag-Vg10-082423 (410-141095-18), Ag-Vg11-082423 (410-141095-19), Ag-Vg12-082423 (410-141095-20), Ag-Vg13-082423 (410-141095-21), Ag-Vg13-082423 (410-141095-21[MS]), Ag-Vg13-082423 (410-141095-21[MSD]), Ag-Vg14-082423 (410-141095-22), Ag-Vg15-082423 (410-141095-23), Ag-Vg16-082423 (410-141095-25), Ag-Vg17-082423 (410-141095-26), X3-082423 (410-141095-27), Ag-Vg18-082423 (410-141095-28), Ag-Vg19-082423 (410-141095-30), (410-141095-A-17-C DU) and (410-141095-A-30-C DU) is outside the QC acceptance limits. Client was contacted and data is reported.

Method 1633: The recovery for a target analyte(s) Perfluoro-3-methoxypropanoic acid and 3:3 FTCA in the laboratory control spike samples associated with the following samples: Ag-Vg1-082523 (410-141095-3), Ag-Vg2-082523 (410-141095-4), Ag-Vg3-082423 (410-141095-6), Ag-Vg4-082423 (410-141095-7), Ag-Vg5-082423 (410-141095-8), Ag-Vg5-082423 (410-141095-8[MS]), Ag-Vg5-082423 (410-141095-8[MSD]), Ag-Vg6-082423 (410-141095-9), Ag-Vg7-082423 (410-141095-10), Ag-Vg8-082423 (410-141095-11), X2-082423 (410-141095-13), Ag-Vg9-082423 (410-141095-17), Ag-Vg10-082423 (410-141095-18), Ag-Vg11-082423 (410-141095-19), Ag-Vg12-082423 (410-141095-20), Ag-Vg13-082423 (410-141095-21), Ag-Vg13-082423 (410-141095-21[MS]), Ag-Vg13-082423 (410-141095-21[MSD]), Ag-Vg14-082423 (410-141095-22), Ag-Vg15-082423 (410-141095-23), Ag-Vg16-082423 (410-141095-25),

Case Narrative

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Job ID: 410-141095-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Ag-Vg17-082423 (410-141095-26), X3-082423 (410-141095-27), Ag-Vg18-082423 (410-141095-28), Ag-Vg19-082423 (410-141095-30), (410-141095-A-17-C DU) and (410-141095-A-30-C DU) is outside the QC acceptance limits. Client was contacted and data is reported.

Method 1633: The recovery for the labeled isotope(s) M2-4:2 FTS in the method blank associated with samples: Ag-Vg1-082523 (410-141095-3), Ag-Vg2-082523 (410-141095-4), Ag-Vg3-082423 (410-141095-6), Ag-Vg4-082423 (410-141095-7), Ag-Vg5-082423 (410-141095-8), Ag-Vg5-082423 (410-141095-8[MS]), Ag-Vg5-082423 (410-141095-8[MSD]), Ag-Vg6-082423 (410-141095-9), Ag-Vg7-082423 (410-141095-10), Ag-Vg8-082423 (410-141095-11), X2-082423 (410-141095-13), Ag-Vg9-082423 (410-141095-17), Ag-Vg10-082423 (410-141095-18), Ag-Vg11-082423 (410-141095-19), Ag-Vg12-082423 (410-141095-20), Ag-Vg13-082423 (410-141095-21), Ag-Vg14-082423 (410-141095-22), Ag-Vg15-082423 (410-141095-23), Ag-Vg16-082423 (410-141095-25), Ag-Vg17-082423 (410-141095-26), X3-082423 (410-141095-27), Ag-Vg18-082423 (410-141095-28) and Ag-Vg19-082423 (410-141095-30) is outside the QC acceptance limits. Since the recovery is high and the associated native analyte is not detected in the method blank, the data is reported.

Method 1633: The recovery for labeled isotope: M2-4:2 FTS, M2-6:2 FTS and M2-8:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: Ag-Vg2-082523 (410-141095-4) and Ag-Vg4-082423 (410-141095-7), the data is reported.

Method 1633: The recovery for labeled isotope: N-ethylperfluoro-1-octanesulfonamide, M2-4:2 FTS and M2-8:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: Ag-Vg2-082523 (410-141095-4) and Ag-Vg4-082423 (410-141095-7), the data is reported.

Method 1633: The recovery for labeled isotope: M2-4:2 FTS and M2-8:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following samples: Ag-Vg5-082423 (410-141095-8), X2-082423 (410-141095-13) and Ag-Vg9-082423 (410-141095-17), the data is reported.

Method 1633: The recovery for the labeled isotope(s): M2-4:2 FTS and M2-8:2 FTS in the following sample: Ag-Vg1-082523 (410-141095-3) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method 1633: The recovery for the labeled isotope(s): 13C4 PFBA in the following sample: Ag-Vg2-082523 (410-141095-4), Ag-Vg3-082423 (410-141095-6), Ag-Vg5-082423 (410-141095-8) and X2-082423 (410-141095-13) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method 1633: The recovery for the labeled isotope(s): M2-4:2 FTS and M2-6:2 FTS in the following sample: Ag-Vg6-082423 (410-141095-9) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method 1633: The recovery for the labeled isotope(s): 13C4 PFBA, 13C5 PFPeA and M2-8:2 FTS in the following sample: Ag-Vg7-082423 (410-141095-10) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method 1633: The recoveries for the labeled isotopes 13C4 PFBA in the following sample: Ag-Vg5-082423 (410-141095-8), Ag-Vg5-082423 (410-141095-8[MS]) and Ag-Vg5-082423 (410-141095-8[MSD]) are outside the QC acceptance limits. The recoveries for labeled isotopes are confirmed in the associated matrix spike and matrix spike duplicate, therefore the data is reported.

Method 1633: The recovery for the labeled isotope(s) 13C4 PFBA, M2-4:2 FTS and M2-6:2 FTS in the following sample: Ag-Vg12-082423 (410-141095-20) is outside the QC acceptance limits. The following action was taken: The client was contacted and the data is reported.

Method 1633: The recovery for the labeled isotope(s) 13C4 PFBA in the following sample: Ag-Vg13-082423 (410-141095-21), Ag-Vg14-082423 (410-141095-22), Ag-Vg17-082423 (410-141095-26), X3-082423 (410-141095-27) and Ag-Vg18-082423 (410-141095-28) is outside the QC acceptance limits. The following action was taken: The client was contacted and the data is reported.

Method 1633: The recovery for the labeled isotope(s) 13C4 PFBA and 13C5 PFPeA in the following sample: Ag-Vg19-082423 (410-141095-30) is outside the QC acceptance limits. The following action was taken: The client was contacted and the data is reported.

Case Narrative

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Job ID: 410-141095-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Method 1633: The recovery for the labeled isotope(s) $^{13}\text{C}_4$ PFBA and M2-4:2 FTS in the following sample: Ag-Vg10-082423 (410-141095-18) is outside the QC acceptance limits. The client was contacted and the data is reported.

Method 1633: The recovery for the labeled isotope(s) $^{13}\text{C}_4$ PFBA in the following sample: Ag-Vg11-082423 (410-141095-19) is outside the QC acceptance limits. The client was contacted and the data is reported.

Method 1633: The recovery for the labeled isotope(s): $^{13}\text{C}_4$ PFBA and M2-4:2 FTS in the following sample: Ag-Vg10-082423 (410-141095-18) is outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method PFC_IDA: The sample injection standard peak areas in the following samples: Ag-Fr1-082523 (410-141095-1), Ag-Fr2-082523 (410-141095-2), Ag-Fr3-082423 (410-141095-12) and Ag-Fr8-082423 (410-141095-29) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

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

Detection Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr1-082523

Lab Sample ID: 410-141095-1

No Detections.

Client Sample ID: Ag-Fr2-082523

Lab Sample ID: 410-141095-2

No Detections.

Client Sample ID: Ag-Vg1-082523

Lab Sample ID: 410-141095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	0.12	J I	0.50	0.076	ng/g	1		1633	Total/NA
Perfluoroheptanesulfonic acid	0.20	J I	0.50	0.12	ng/g	1		1633	Total/NA
NMeFOSA	0.11	J	0.50	0.074	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg2-082523

Lab Sample ID: 410-141095-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid	0.29	J I	0.49	0.091	ng/g	1		1633	Total/NA
Perfluorooctanesulfonic acid	0.26	J I	0.49	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Fr3-082523

Lab Sample ID: 410-141095-5

No Detections.

Client Sample ID: Ag-Vg3-082423

Lab Sample ID: 410-141095-6

No Detections.

Client Sample ID: Ag-Vg4-082423

Lab Sample ID: 410-141095-7

No Detections.

Client Sample ID: Ag-Vg5-082423

Lab Sample ID: 410-141095-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	2.0		0.50	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg6-082423

Lab Sample ID: 410-141095-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.27	J	0.49	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg7-082423

Lab Sample ID: 410-141095-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.51	J	1.9	0.35	ng/g	1		1633	Total/NA
Perfluorooctanesulfonic acid	0.26	J	0.48	0.12	ng/g	1		1633	Total/NA
3:3 FTCA	3.6	I *- cn	2.4	0.70	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg8-082423

Lab Sample ID: 410-141095-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.51		0.48	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Fr3-082423

Lab Sample ID: 410-141095-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: X2-082423

Lab Sample ID: 410-141095-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.19	J	0.50	0.12	ng/g	1		1633	Total/NA
Perfluorooctanesulfonamide	0.44	J	0.50	0.094	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Fr4-082423

Lab Sample ID: 410-141095-14

No Detections.

Client Sample ID: Ag-Fr5-082423

Lab Sample ID: 410-141095-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.11	J	0.20	0.079	ng/g	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.028	J	0.059	0.020	ng/g	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.021	J	0.059	0.020	ng/g	1		537 IDA	Total/NA

Client Sample ID: Ag-Fr6-082423

Lab Sample ID: 410-141095-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.026	J	0.060	0.020	ng/g	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.025	J	0.060	0.020	ng/g	1		537 IDA	Total/NA

Client Sample ID: Ag-Vg9-082423

Lab Sample ID: 410-141095-17

No Detections.

Client Sample ID: Ag-Vg10-082423

Lab Sample ID: 410-141095-18

No Detections.

Client Sample ID: Ag-Vg11-082423

Lab Sample ID: 410-141095-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.40	J	2.0	0.36	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg12-082423

Lab Sample ID: 410-141095-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.8	J	2.0	0.36	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg13-082423

Lab Sample ID: 410-141095-21

No Detections.

Client Sample ID: Ag-Vg14-082423

Lab Sample ID: 410-141095-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.1	J	2.0	0.36	ng/g	1		1633	Total/NA
Perfluoro-3-methoxypropanoic acid	0.14	J *- cn	0.99	0.12	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Vg15-082423

Lab Sample ID: 410-141095-23

No Detections.

Client Sample ID: Ag-Fr7-082423

Lab Sample ID: 410-141095-24

No Detections.

Client Sample ID: Ag-Vg16-082423

Lab Sample ID: 410-141095-25

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg17-082423

Lab Sample ID: 410-141095-26

No Detections.

Client Sample ID: X3-082423

Lab Sample ID: 410-141095-27

No Detections.

Client Sample ID: Ag-Vg18-082423

Lab Sample ID: 410-141095-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid	0.63	J I	0.97	0.13	ng/g	1		1633	Total/NA

Client Sample ID: Ag-Fr8-082423

Lab Sample ID: 410-141095-29

No Detections.

Client Sample ID: Ag-Vg19-082423

Lab Sample ID: 410-141095-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.1	J	1.9	0.35	ng/g	1		1633	Total/NA
Perfluoropentanoic acid	0.55	J I	0.97	0.13	ng/g	1		1633	Total/NA
Perfluorooctanoic acid	0.20	J	0.49	0.20	ng/g	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr1-082523

Lab Sample ID: 410-141095-1

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	0.20	0.060	ng/g		09/06/23 09:10	10/03/23 19:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	0.20	0.060	ng/g		09/06/23 09:10	10/03/23 19:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	0.30	0.060	ng/g		09/06/23 09:10	10/03/23 19:58	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	0.30	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
HFPO-DA	ND	cn	0.20	0.099	ng/g		09/06/23 09:10	10/03/23 19:58	1
NEtFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 19:58	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 19:58	1
NMeFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
NMeFOSA	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 19:58	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorobutanesulfonic acid	ND	cn	0.20	0.040	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorobutanoic acid	ND	cn	0.20	0.080	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorodecanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorodecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorododecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoroheptanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoroheptanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorohexanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorohexanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorononanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorononanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorooctanesulfonamide	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorooctanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorooctanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoropentanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoropentanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorotetradecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluorotridecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoroundecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
PFEESA	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
3:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
7:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
5:3 FTCA	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 19:58	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr1-082523

Lab Sample ID: 410-141095-1

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	78	cn	10 - 200	09/06/23 09:10	10/03/23 19:58	1
M2-6:2 FTS	86	cn	10 - 200	09/06/23 09:10	10/03/23 19:58	1
M2-8:2 FTS	86	cn	15 - 200	09/06/23 09:10	10/03/23 19:58	1
13C2 PFTeDA	48	cn	10 - 169	09/06/23 09:10	10/03/23 19:58	1
13C3 HFPO-DA	33	cn	10 - 169	09/06/23 09:10	10/03/23 19:58	1
13C3 PFBS	78	cn	27 - 179	09/06/23 09:10	10/03/23 19:58	1
13C4 PFBA	44	cn	28 - 153	09/06/23 09:10	10/03/23 19:58	1
13C4 PFHpA	41	cn	10 - 178	09/06/23 09:10	10/03/23 19:58	1
13C5 PFPeA	74	cn	24 - 161	09/06/23 09:10	10/03/23 19:58	1
13C8 PFOA	49	cn	26 - 159	09/06/23 09:10	10/03/23 19:58	1
13C8 PFOS	57	cn	41 - 154	09/06/23 09:10	10/03/23 19:58	1
d3-NMeFOSAA	47	cn	10 - 178	09/06/23 09:10	10/03/23 19:58	1
d5-NEtFOSAA	63	cn	10 - 193	09/06/23 09:10	10/03/23 19:58	1
d7-N-MeFOSE-M	51	cn	10 - 179	09/06/23 09:10	10/03/23 19:58	1
d9-N-EtFOSE-M	47	cn	10 - 185	09/06/23 09:10	10/03/23 19:58	1
13C3 PFHxS	48	cn	24 - 171	09/06/23 09:10	10/03/23 19:58	1
13C5 PFHxA	47	cn	10 - 174	09/06/23 09:10	10/03/23 19:58	1
13C6 PFDA	49	cn	26 - 161	09/06/23 09:10	10/03/23 19:58	1
13C7 PFUnA	52	cn	12 - 173	09/06/23 09:10	10/03/23 19:58	1
d3-NMePFOSA	48	cn	10 - 175	09/06/23 09:10	10/03/23 19:58	1
d5-NEtPFOSA	39	cn	10 - 180	09/06/23 09:10	10/03/23 19:58	1
13C8 FOSA	47	cn	14 - 163	09/06/23 09:10	10/03/23 19:58	1
13C2-PFDoDA	50	cn	11 - 166	09/06/23 09:10	10/03/23 19:58	1
13C9 PFNA	57	cn	26 - 165	09/06/23 09:10	10/03/23 19:58	1
13C-6:2 FTCA	25	cn	10 - 200	09/06/23 09:10	10/03/23 19:58	1

Client Sample ID: Ag-Fr2-082523

Lab Sample ID: 410-141095-2

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	0.20	0.059	ng/g		09/06/23 09:10	10/03/23 20:10	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	0.20	0.059	ng/g		09/06/23 09:10	10/03/23 20:10	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	0.30	0.059	ng/g		09/06/23 09:10	10/03/23 20:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	0.30	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
HFPO-DA	ND	cn	0.20	0.099	ng/g		09/06/23 09:10	10/03/23 20:10	1
NEtFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.20	0.049	ng/g		09/06/23 09:10	10/03/23 20:10	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND	cn	0.20	0.049	ng/g		09/06/23 09:10	10/03/23 20:10	1
NMeFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
NMeFOSA	ND	cn	0.20	0.049	ng/g		09/06/23 09:10	10/03/23 20:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr2-082523

Lab Sample ID: 410-141095-2

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	0.20	0.049	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorobutanesulfonic acid	ND	cn	0.20	0.039	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorobutanoic acid	ND	cn	0.20	0.079	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorodecanesulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorodecanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorododecanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoroheptanesulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoroheptanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorohexanesulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorohexanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorononanesulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorononanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorooctanesulfonamide	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorooctanesulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorooctanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoropentanesulfonic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoropentanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorotetradecanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluorotridecanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoroundecanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
PFEESA	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
3:3 FTCA	ND	*+ cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
7:3 FTCA	ND	*+ cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
5:3 FTCA	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	61	cn	10 - 200				09/06/23 09:10	10/03/23 20:10	1
M2-6:2 FTS	53	cn	10 - 200				09/06/23 09:10	10/03/23 20:10	1
M2-8:2 FTS	38	cn	15 - 200				09/06/23 09:10	10/03/23 20:10	1
13C2 PFTeDA	33	cn	10 - 169				09/06/23 09:10	10/03/23 20:10	1
13C3 HFPO-DA	31	cn	10 - 169				09/06/23 09:10	10/03/23 20:10	1
13C3 PFBS	77	cn	27 - 179				09/06/23 09:10	10/03/23 20:10	1
13C4 PFBA	36	cn	28 - 153				09/06/23 09:10	10/03/23 20:10	1
13C4 PFHpA	38	cn	10 - 178				09/06/23 09:10	10/03/23 20:10	1
13C5 PFPeA	58	cn	24 - 161				09/06/23 09:10	10/03/23 20:10	1
13C8 PFOA	42	cn	26 - 159				09/06/23 09:10	10/03/23 20:10	1
13C8 PFOS	46	cn	41 - 154				09/06/23 09:10	10/03/23 20:10	1
d3-NMeFOSAA	35	cn	10 - 178				09/06/23 09:10	10/03/23 20:10	1
d5-NEtFOSAA	41	cn	10 - 193				09/06/23 09:10	10/03/23 20:10	1
d7-N-MeFOSE-M	36	cn	10 - 179				09/06/23 09:10	10/03/23 20:10	1
d9-N-EtFOSE-M	33	cn	10 - 185				09/06/23 09:10	10/03/23 20:10	1
13C3 PFHxS	44	cn	24 - 171				09/06/23 09:10	10/03/23 20:10	1
13C5 PFHxA	36	cn	10 - 174				09/06/23 09:10	10/03/23 20:10	1
13C6 PFDA	40	cn	26 - 161				09/06/23 09:10	10/03/23 20:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr2-082523

Lab Sample ID: 410-141095-2

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C7 PFOA	39	cn	12 - 173	09/06/23 09:10	10/03/23 20:10	1
d3-NMePFOSA	32	cn	10 - 175	09/06/23 09:10	10/03/23 20:10	1
d5-NEtPFOSA	29	cn	10 - 180	09/06/23 09:10	10/03/23 20:10	1
13C8 FOSA	39	cn	14 - 163	09/06/23 09:10	10/03/23 20:10	1
13C2-PFDoDA	36	cn	11 - 166	09/06/23 09:10	10/03/23 20:10	1
13C9 PFNA	43	cn	26 - 165	09/06/23 09:10	10/03/23 20:10	1
13C-6:2 FTCA	25	cn	10 - 200	09/06/23 09:10	10/03/23 20:10	1

Client Sample ID: Ag-Vg1-082523

Lab Sample ID: 410-141095-3

Date Collected: 08/25/23 10:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorohexanoic acid	ND		0.50	0.16	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorododecanoic acid	ND		0.50	0.078	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorotridecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoropentanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorohexanesulfonic acid	0.12	J I	0.50	0.076	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoroheptanesulfonic acid	0.20	J I	0.50	0.12	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorononanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:41	10/02/23 23:56	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.55	ng/g		09/18/23 14:41	10/02/23 23:56	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluorooctanesulfonamide	ND		0.50	0.093	ng/g		09/18/23 14:41	10/02/23 23:56	1
NMeFOSA	0.11	J	0.50	0.074	ng/g		09/18/23 14:41	10/02/23 23:56	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:41	10/02/23 23:56	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:41	10/02/23 23:56	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:41	10/02/23 23:56	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.67	ng/g		09/18/23 14:41	10/02/23 23:56	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.8	ng/g		09/18/23 14:41	10/02/23 23:56	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:41	10/02/23 23:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:41	10/02/23 23:56	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg1-082523

Lab Sample ID: 410-141095-3

Date Collected: 08/25/23 10:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.99	0.12	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:41	10/02/23 23:56	1
Perfluoro-3,6-dioxahexanoic acid	ND		0.99	0.39	ng/g		09/18/23 14:41	10/02/23 23:56	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:41	10/02/23 23:56	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/02/23 23:56	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:41	10/02/23 23:56	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:41	10/02/23 23:56	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:41	10/02/23 23:56	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/02/23 23:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	33.0	cn	20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C5 PFPeA	86.8	cn	20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C5 PFHxA	90.6		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C4 PFHpA	93.0		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C8 PFOA	87.4		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C9 PFNA	110		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C6 PFDA	111		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C7 PFUnA	120		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C2-PFDoDA	117		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C2 PFTeDA	105		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C3 PFBS	109		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C3 PFHxS	97.7		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C8 PFOS	98.0		20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C8 FOSA	115		20 - 150	09/18/23 14:41	10/02/23 23:56	1
d3-NMeFOSAA	110		20 - 150	09/18/23 14:41	10/02/23 23:56	1
d5-NEtFOSAA	96.0		20 - 150	09/18/23 14:41	10/02/23 23:56	1
M2-4:2 FTS	231	*5+ cn	20 - 150	09/18/23 14:41	10/02/23 23:56	1
M2-8:2 FTS	302	*5+ cn	20 - 150	09/18/23 14:41	10/02/23 23:56	1
13C3 HFPO-DA	92.8		20 - 150	09/18/23 14:41	10/02/23 23:56	1
d7-N-MeFOSE-M	93.3		20 - 150	09/18/23 14:41	10/02/23 23:56	1
d9-N-EtFOSE-M	87.5		20 - 150	09/18/23 14:41	10/02/23 23:56	1
d5-NEtPFOSA	73.6		20 - 150	09/18/23 14:41	10/02/23 23:56	1
d3-NMePFOSA	29.1		20 - 150	09/18/23 14:41	10/02/23 23:56	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:41	10/06/23 21:08	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	129		20 - 150				09/18/23 14:41	10/06/23 21:08	10

Client Sample ID: Ag-Vg2-082523

Lab Sample ID: 410-141095-4

Date Collected: 08/25/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:41	10/03/23 00:09	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg2-082523

Lab Sample ID: 410-141095-4

Date Collected: 08/25/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorooctanoic acid	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorododecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorotridecanoic acid	ND		0.49	0.079	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoropentanesulfonic acid	0.29	J I	0.49	0.091	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorohexanesulfonic acid	ND		0.49	0.076	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorooctanesulfonic acid	0.26	J I	0.49	0.12	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorononanesulfonic acid	ND		0.49	0.091	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluorooctanesulfonamide	ND		0.49	0.093	ng/g		09/18/23 14:41	10/03/23 00:09	1
NMeFOSA	ND		0.49	0.074	ng/g		09/18/23 14:41	10/03/23 00:09	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.49	0.10	ng/g		09/18/23 14:41	10/03/23 00:09	1
NMeFOSAA	ND		0.49	0.21	ng/g		09/18/23 14:41	10/03/23 00:09	1
NEtFOSAA	ND		0.49	0.17	ng/g		09/18/23 14:41	10/03/23 00:09	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.67	ng/g		09/18/23 14:41	10/03/23 00:09	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:41	10/03/23 00:09	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:41	10/03/23 00:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.39	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.99	0.12	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:41	10/03/23 00:09	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.99	0.38	ng/g		09/18/23 14:41	10/03/23 00:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/03/23 00:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/03/23 00:09	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:41	10/03/23 00:09	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:41	10/03/23 00:09	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:41	10/03/23 00:09	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 00:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	8.07	*5- cn	20 - 150				09/18/23 14:41	10/03/23 00:09	1
13C5 PFPeA	51.9	cn	20 - 150				09/18/23 14:41	10/03/23 00:09	1
13C5 PFHxA	97.8		20 - 150				09/18/23 14:41	10/03/23 00:09	1
13C4 PFHpA	40.0		20 - 150				09/18/23 14:41	10/03/23 00:09	1
13C8 PFOA	87.0		20 - 150				09/18/23 14:41	10/03/23 00:09	1
13C9 PFNA	102		20 - 150				09/18/23 14:41	10/03/23 00:09	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg2-082523

Lab Sample ID: 410-141095-4

Date Collected: 08/25/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	111		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C7 PFUnA	133		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C2-PFDoDA	127		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C2 PFTeDA	107		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C3 PFBS	146		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C3 PFHxS	104		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C8 PFOS	109		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C8 FOSA	104		20 - 150	09/18/23 14:41	10/03/23 00:09	1
d3-NMeFOSAA	95.9		20 - 150	09/18/23 14:41	10/03/23 00:09	1
d5-NEtFOSAA	113		20 - 150	09/18/23 14:41	10/03/23 00:09	1
13C3 HFPO-DA	95.1		20 - 150	09/18/23 14:41	10/03/23 00:09	1
d7-N-MeFOSE-M	92.9		20 - 150	09/18/23 14:41	10/03/23 00:09	1
d9-N-EtFOSE-M	93.5		20 - 150	09/18/23 14:41	10/03/23 00:09	1
d5-NEtPFOSA	89.4		20 - 150	09/18/23 14:41	10/03/23 00:09	1
d3-NMePFOSA	91.5		20 - 150	09/18/23 14:41	10/03/23 00:09	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		09/18/23 14:41	10/05/23 20:06	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:41	10/05/23 20:06	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.7	ng/g		09/18/23 14:41	10/05/23 20:06	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	146	cn	20 - 150				09/18/23 14:41	10/05/23 20:06	10
M2-6:2 FTS	138	cn	20 - 150				09/18/23 14:41	10/05/23 20:06	10
M2-8:2 FTS	146	cn	20 - 150				09/18/23 14:41	10/05/23 20:06	10

Client Sample ID: Ag-Fr3-082523

Lab Sample ID: 410-141095-5

Date Collected: 08/25/23 10:00

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 20:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 20:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		09/06/23 09:10	10/03/23 20:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
HFPO-DA	ND		0.20	0.099	ng/g		09/06/23 09:10	10/03/23 20:22	1
NEtFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:22	1
2-(N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:22	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr3-082523

Lab Sample ID: 410-141095-5

Date Collected: 08/25/23 10:00

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
NMeFOSA	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:22	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorobutanoic acid	ND		0.20	0.080	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
PFEESA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
3:3 FTCA	ND	+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
7:3 FTCA	ND	+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
5:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	75		10 - 200	09/06/23 09:10	10/03/23 20:22	1
M2-6:2 FTS	56		10 - 200	09/06/23 09:10	10/03/23 20:22	1
M2-8:2 FTS	101		15 - 200	09/06/23 09:10	10/03/23 20:22	1
13C2 PFTeDA	60		10 - 169	09/06/23 09:10	10/03/23 20:22	1
13C3 HFPO-DA	33		10 - 169	09/06/23 09:10	10/03/23 20:22	1
13C3 PFBS	51		27 - 179	09/06/23 09:10	10/03/23 20:22	1
13C4 PFBA	33		28 - 153	09/06/23 09:10	10/03/23 20:22	1
13C4 PFHpA	49		10 - 178	09/06/23 09:10	10/03/23 20:22	1
13C5 PFPeA	35		24 - 161	09/06/23 09:10	10/03/23 20:22	1
13C8 PFOA	36		26 - 159	09/06/23 09:10	10/03/23 20:22	1
13C8 PFOS	49		41 - 154	09/06/23 09:10	10/03/23 20:22	1
d3-NMeFOSAA	65		10 - 178	09/06/23 09:10	10/03/23 20:22	1
d5-NEtFOSAA	119		10 - 193	09/06/23 09:10	10/03/23 20:22	1
d7-N-MeFOSE-M	67		10 - 179	09/06/23 09:10	10/03/23 20:22	1
d9-N-EtFOSE-M	74		10 - 185	09/06/23 09:10	10/03/23 20:22	1
13C3 PFHxS	61		24 - 171	09/06/23 09:10	10/03/23 20:22	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr3-082523

Lab Sample ID: 410-141095-5

Date Collected: 08/25/23 10:00

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	40		10 - 174	09/06/23 09:10	10/03/23 20:22	1
13C6 PFDA	41		26 - 161	09/06/23 09:10	10/03/23 20:22	1
13C7 PFUnA	66		12 - 173	09/06/23 09:10	10/03/23 20:22	1
d3-NMePFOSA	68		10 - 175	09/06/23 09:10	10/03/23 20:22	1
d5-NEtPFOSA	55		10 - 180	09/06/23 09:10	10/03/23 20:22	1
13C8 FOSA	59		14 - 163	09/06/23 09:10	10/03/23 20:22	1
13C2-PFDoDA	57		11 - 166	09/06/23 09:10	10/03/23 20:22	1
13C9 PFNA	42		26 - 165	09/06/23 09:10	10/03/23 20:22	1
13C-6:2 FTCA	12		10 - 200	09/06/23 09:10	10/03/23 20:22	1

Client Sample ID: Ag-Vg3-082423

Lab Sample ID: 410-141095-6

Date Collected: 08/24/23 13:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorooctanoic acid	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorododecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorotridecanoic acid	ND		0.49	0.079	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoropentanesulfonic acid	ND		0.49	0.091	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorohexanesulfonic acid	ND		0.49	0.076	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorononanesulfonic acid	ND		0.49	0.091	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorododecanesulfonic acid	ND		0.49	0.11	ng/g		09/18/23 14:41	10/03/23 00:22	1
(PFDoS)									
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.67	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluorooctanesulfonamide	ND		0.49	0.093	ng/g		09/18/23 14:41	10/03/23 00:22	1
NMeFOSA	ND		0.49	0.074	ng/g		09/18/23 14:41	10/03/23 00:22	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.10	ng/g		09/18/23 14:41	10/03/23 00:22	1
NMeFOSAA	ND		0.49	0.21	ng/g		09/18/23 14:41	10/03/23 00:22	1
NEtFOSAA	ND		0.49	0.17	ng/g		09/18/23 14:41	10/03/23 00:22	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.67	ng/g		09/18/23 14:41	10/03/23 00:22	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:41	10/03/23 00:22	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:41	10/03/23 00:22	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg3-082423

Lab Sample ID: 410-141095-6

Date Collected: 08/24/23 13:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.39	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.99	0.12	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:41	10/03/23 00:22	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.99	0.38	ng/g		09/18/23 14:41	10/03/23 00:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/03/23 00:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/03/23 00:22	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:41	10/03/23 00:22	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:41	10/03/23 00:22	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:41	10/03/23 00:22	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 00:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	9.99	*5- cn	20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C5 PFPeA	65.0	cn	20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C5 PFHxA	102		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C4 PFHpA	107		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C8 PFOA	108		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C9 PFNA	108		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C6 PFDA	102		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C7 PFUnA	110		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C2-PFDoDA	108		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C2 PFTeDA	80.8		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C3 PFBS	126		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C3 PFHxS	108		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C8 PFOS	107		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C8 FOSA	96.4		20 - 150	09/18/23 14:41	10/03/23 00:22	1
d3-NMeFOSAA	107		20 - 150	09/18/23 14:41	10/03/23 00:22	1
d5-NEtFOSAA	127		20 - 150	09/18/23 14:41	10/03/23 00:22	1
M2-8:2 FTS	120		20 - 150	09/18/23 14:41	10/03/23 00:22	1
13C3 HFPO-DA	98.0		20 - 150	09/18/23 14:41	10/03/23 00:22	1
d7-N-MeFOSE-M	97.7		20 - 150	09/18/23 14:41	10/03/23 00:22	1
d9-N-EtFOSE-M	100		20 - 150	09/18/23 14:41	10/03/23 00:22	1
d5-NEtPFOSA	87.3		20 - 150	09/18/23 14:41	10/03/23 00:22	1
d3-NMePFOSA	97.7		20 - 150	09/18/23 14:41	10/03/23 00:22	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		09/18/23 14:41	10/06/23 21:21	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:41	10/06/23 21:21	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	125	cn	20 - 150				09/18/23 14:41	10/06/23 21:21	10
M2-6:2 FTS	105		20 - 150				09/18/23 14:41	10/06/23 21:21	10

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg4-082423

Lab Sample ID: 410-141095-7

Date Collected: 08/24/23 13:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoropentanoic acid	ND		0.97	0.13	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorooctanoic acid	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoropentanesulfonic acid	ND		0.48	0.089	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorooctanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorononanesulfonic acid	ND		0.48	0.089	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorodecanesulfonic acid	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.11	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluorooctanesulfonamide	ND		0.48	0.091	ng/g		09/18/23 14:41	10/03/23 00:35	1
NMeFOSA	ND		0.48	0.072	ng/g		09/18/23 14:41	10/03/23 00:35	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.48	0.099	ng/g		09/18/23 14:41	10/03/23 00:35	1
NMeFOSAA	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 00:35	1
NEtFOSAA	ND		0.48	0.17	ng/g		09/18/23 14:41	10/03/23 00:35	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.66	ng/g		09/18/23 14:41	10/03/23 00:35	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		09/18/23 14:41	10/03/23 00:35	1
HFPO-DA	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 00:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.39	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.97	0.12	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoro(4-methoxybutanoic acid)	ND		0.97	0.19	ng/g		09/18/23 14:41	10/03/23 00:35	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.97	0.38	ng/g		09/18/23 14:41	10/03/23 00:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 00:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:41	10/03/23 00:35	1
PFEESA	ND		0.97	0.22	ng/g		09/18/23 14:41	10/03/23 00:35	1
3:3 FTCA	ND	*- cn	2.4	0.70	ng/g		09/18/23 14:41	10/03/23 00:35	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:41	10/03/23 00:35	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 00:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98.5	cn	20 - 150				09/18/23 14:41	10/03/23 00:35	1
13C5 PFPeA	105	cn	20 - 150				09/18/23 14:41	10/03/23 00:35	1
13C5 PFHxA	109		20 - 150				09/18/23 14:41	10/03/23 00:35	1
13C4 PFHpA	114		20 - 150				09/18/23 14:41	10/03/23 00:35	1
13C8 PFOA	99.8		20 - 150				09/18/23 14:41	10/03/23 00:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg4-082423

Lab Sample ID: 410-141095-7

Date Collected: 08/24/23 13:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	104		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C6 PFDA	99.9		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C7 PFUnA	109		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C2-PFDoDA	109		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C2 PFTeDA	94.6		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C3 PFBS	110		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C3 PFHxS	104		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C8 PFOS	95.1		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C8 FOSA	88.0		20 - 150	09/18/23 14:41	10/03/23 00:35	1
d3-NMeFOSAA	94.6		20 - 150	09/18/23 14:41	10/03/23 00:35	1
d5-NEtFOSAA	102		20 - 150	09/18/23 14:41	10/03/23 00:35	1
13C3 HFPO-DA	104		20 - 150	09/18/23 14:41	10/03/23 00:35	1
d7-N-MeFOSE-M	84.7		20 - 150	09/18/23 14:41	10/03/23 00:35	1
d9-N-EtFOSE-M	83.0		20 - 150	09/18/23 14:41	10/03/23 00:35	1
d5-NEtPFOSA	79.4		20 - 150	09/18/23 14:41	10/03/23 00:35	1
d3-NMePFOSA	84.0		20 - 150	09/18/23 14:41	10/03/23 00:35	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.4	ng/g		09/18/23 14:41	10/05/23 20:32	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:41	10/05/23 20:32	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	6.6	ng/g		09/18/23 14:41	10/05/23 20:32	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	149	cn	20 - 150				09/18/23 14:41	10/05/23 20:32	10
M2-6:2 FTS	105	cn	20 - 150				09/18/23 14:41	10/05/23 20:32	10
M2-8:2 FTS	108	cn	20 - 150				09/18/23 14:41	10/05/23 20:32	10

Client Sample ID: Ag-Vg5-082423

Lab Sample ID: 410-141095-8

Date Collected: 08/24/23 13:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorohexanoic acid	ND		0.50	0.16	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorododecanoic acid	ND		0.50	0.078	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorotridecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoropentanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorohexanesulfonic acid	ND		0.50	0.076	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/03/23 00:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg5-082423

Lab Sample ID: 410-141095-8

Date Collected: 08/24/23 13:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	2.0		0.50	0.12	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorononanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:41	10/03/23 00:48	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		09/18/23 14:41	10/03/23 00:48	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluorooctanesulfonamide	ND		0.50	0.093	ng/g		09/18/23 14:41	10/03/23 00:48	1
NMeFOSA	ND		0.50	0.074	ng/g		09/18/23 14:41	10/03/23 00:48	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:41	10/03/23 00:48	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:41	10/03/23 00:48	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:41	10/03/23 00:48	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.67	ng/g		09/18/23 14:41	10/03/23 00:48	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.8	ng/g		09/18/23 14:41	10/03/23 00:48	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:41	10/03/23 00:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoro-3-methoxypropanoic acid	ND	F1 *- cn	0.99	0.12	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:41	10/03/23 00:48	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.99	0.39	ng/g		09/18/23 14:41	10/03/23 00:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:41	10/03/23 00:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/03/23 00:48	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:41	10/03/23 00:48	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:41	10/03/23 00:48	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:41	10/03/23 00:48	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 00:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	8.80	*5- cn	20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C5 PFPeA	54.0	cn	20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C5 PFHxA	108		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C4 PFHpA	108		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C8 PFOA	105		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C9 PFNA	110		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C6 PFDA	99.0		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C7 PFUnA	111		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C2-PFDoDA	108		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C2 PFTeDA	87.1		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C3 PFBS	125		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C3 PFHxS	114		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C8 PFOS	101		20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C8 FOSA	102		20 - 150	09/18/23 14:41	10/03/23 00:48	1
d3-NMeFOSAA	116		20 - 150	09/18/23 14:41	10/03/23 00:48	1
d5-NEtFOSAA	109		20 - 150	09/18/23 14:41	10/03/23 00:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg5-082423

Lab Sample ID: 410-141095-8

Date Collected: 08/24/23 13:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	119		20 - 150	09/18/23 14:41	10/03/23 00:48	1
M2-8:2 FTS	119	cn	20 - 150	09/18/23 14:41	10/03/23 00:48	1
13C3 HFPO-DA	102		20 - 150	09/18/23 14:41	10/03/23 00:48	1
d7-N-MeFOSE-M	94.2		20 - 150	09/18/23 14:41	10/03/23 00:48	1
d9-N-EtFOSE-M	86.7		20 - 150	09/18/23 14:41	10/03/23 00:48	1
d5-NEtPFOSA	92.3		20 - 150	09/18/23 14:41	10/03/23 00:48	1
d3-NMePFOSA	93.9		20 - 150	09/18/23 14:41	10/03/23 00:48	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		09/18/23 14:41	10/05/23 21:11	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	129	cn	20 - 150				09/18/23 14:41	10/05/23 21:11	10

Client Sample ID: Ag-Vg6-082423

Lab Sample ID: 410-141095-9

Date Collected: 08/24/23 13:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoropentanoic acid	ND		0.97	0.13	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorooctanoic acid	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorododecanoic acid	ND		0.49	0.077	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorotridecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoropentanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorohexanesulfonic acid	ND		0.49	0.075	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorooctanesulfonic acid	0.27	J	0.49	0.12	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorononanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		09/18/23 14:41	10/03/23 01:01	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		1.9	0.54	ng/g		09/18/23 14:41	10/03/23 01:01	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	1.3	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluorooctanesulfonamide	ND		0.49	0.091	ng/g		09/18/23 14:41	10/03/23 01:01	1
NMeFOSA	ND		0.49	0.073	ng/g		09/18/23 14:41	10/03/23 01:01	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.099	ng/g		09/18/23 14:41	10/03/23 01:01	1
NMeFOSAA	ND		0.49	0.20	ng/g		09/18/23 14:41	10/03/23 01:01	1
NEtFOSAA	ND		0.49	0.17	ng/g		09/18/23 14:41	10/03/23 01:01	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg6-082423

Lab Sample ID: 410-141095-9

Date Collected: 08/24/23 13:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.66	ng/g		09/18/23 14:41	10/03/23 01:01	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:41	10/03/23 01:01	1
HFPO-DA	ND		1.9	0.26	ng/g		09/18/23 14:41	10/03/23 01:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.39	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.97	0.12	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoro(4-methoxybutanoic acid)	ND		0.97	0.19	ng/g		09/18/23 14:41	10/03/23 01:01	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.97	0.38	ng/g		09/18/23 14:41	10/03/23 01:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 01:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:41	10/03/23 01:01	1
PFEESA	ND		0.97	0.22	ng/g		09/18/23 14:41	10/03/23 01:01	1
3:3 FTCA	ND	*- cn	2.4	0.70	ng/g		09/18/23 14:41	10/03/23 01:01	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:41	10/03/23 01:01	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 01:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72.0	cn	20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C5 PFPeA	72.7	cn	20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C5 PFHxA	99.5		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C4 PFHpA	118		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C8 PFOA	78.7		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C9 PFNA	104		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C6 PFDA	104		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C7 PFUnA	116		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C2-PFDoDA	106		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C2 PFTeDA	89.9		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C3 PFBS	83.0		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C3 PFHxS	99.5		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C8 PFOS	99.2		20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C8 FOSA	87.7		20 - 150	09/18/23 14:41	10/03/23 01:01	1
d3-NMeFOSAA	83.6		20 - 150	09/18/23 14:41	10/03/23 01:01	1
d5-NEtFOSAA	98.1		20 - 150	09/18/23 14:41	10/03/23 01:01	1
M2-4:2 FTS	154	*5+ cn	20 - 150	09/18/23 14:41	10/03/23 01:01	1
M2-6:2 FTS	160	*5+ cn	20 - 150	09/18/23 14:41	10/03/23 01:01	1
13C3 HFPO-DA	76.2		20 - 150	09/18/23 14:41	10/03/23 01:01	1
d7-N-MeFOSE-M	86.7		20 - 150	09/18/23 14:41	10/03/23 01:01	1
d9-N-EtFOSE-M	88.0		20 - 150	09/18/23 14:41	10/03/23 01:01	1
d5-NEtPFOSA	76.4		20 - 150	09/18/23 14:41	10/03/23 01:01	1
d3-NMePFOSA	84.7		20 - 150	09/18/23 14:41	10/03/23 01:01	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	6.6	ng/g		09/18/23 14:41	10/06/23 21:34	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-8:2 FTS	103		20 - 150				09/18/23 14:41	10/06/23 21:34	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg7-082423

Lab Sample ID: 410-141095-10

Date Collected: 08/24/23 13:45

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	0.51	J	1.9	0.35	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoropentanoic acid	ND		0.97	0.13	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorooctanoic acid	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoropentanesulfonic acid	ND		0.48	0.089	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorooctanesulfonic acid	0.26	J	0.48	0.12	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorononanesulfonic acid	ND		0.48	0.089	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorodecanesulfonic acid	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.11	ng/g		09/18/23 14:41	10/03/23 01:14	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.66	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluorooctanesulfonamide	ND		0.48	0.091	ng/g		09/18/23 14:41	10/03/23 01:14	1
NMeFOSA	ND		0.48	0.072	ng/g		09/18/23 14:41	10/03/23 01:14	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.099	ng/g		09/18/23 14:41	10/03/23 01:14	1
NMeFOSAA	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 01:14	1
NEtFOSAA	ND		0.48	0.17	ng/g		09/18/23 14:41	10/03/23 01:14	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.66	ng/g		09/18/23 14:41	10/03/23 01:14	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		09/18/23 14:41	10/03/23 01:14	1
HFPO-DA	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 01:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.39	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.97	0.12	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoro(4-methoxybutanoic acid)	ND		0.97	0.19	ng/g		09/18/23 14:41	10/03/23 01:14	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.97	0.38	ng/g		09/18/23 14:41	10/03/23 01:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 01:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:41	10/03/23 01:14	1
PFEESA	ND		0.97	0.22	ng/g		09/18/23 14:41	10/03/23 01:14	1
3:3 FTCA	3.6	I *- cn	2.4	0.70	ng/g		09/18/23 14:41	10/03/23 01:14	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:41	10/03/23 01:14	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 01:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	2.04	*5- cn	20 - 150				09/18/23 14:41	10/03/23 01:14	1
13C5 PFPeA	16.3	*5- cn	20 - 150				09/18/23 14:41	10/03/23 01:14	1
13C5 PFHxA	97.4		20 - 150				09/18/23 14:41	10/03/23 01:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg7-082423

Lab Sample ID: 410-141095-10

Date Collected: 08/24/23 13:45

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	101		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C8 PFOA	96.4		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C9 PFNA	105		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C6 PFDA	113		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C7 PFUnA	122		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C2-PFDoDA	120		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C2 PFTeDA	102		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C3 PFBS	121		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C3 PFHxS	100		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C8 PFOS	98.4		20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C8 FOSA	119		20 - 150	09/18/23 14:41	10/03/23 01:14	1
d3-NMeFOSAA	94.6		20 - 150	09/18/23 14:41	10/03/23 01:14	1
d5-NEtFOSAA	119		20 - 150	09/18/23 14:41	10/03/23 01:14	1
M2-8:2 FTS	225	*5+ cn	20 - 150	09/18/23 14:41	10/03/23 01:14	1
13C3 HFPO-DA	95.7		20 - 150	09/18/23 14:41	10/03/23 01:14	1
d7-N-MeFOSE-M	95.4		20 - 150	09/18/23 14:41	10/03/23 01:14	1
d9-N-EtFOSE-M	94.8		20 - 150	09/18/23 14:41	10/03/23 01:14	1
d5-NEtPFOSA	87.3		20 - 150	09/18/23 14:41	10/03/23 01:14	1
d3-NMePFOSA	44.5		20 - 150	09/18/23 14:41	10/03/23 01:14	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.4	ng/g		09/18/23 14:41	10/06/23 21:47	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:41	10/06/23 21:47	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	107	cn	20 - 150				09/18/23 14:41	10/06/23 21:47	10
M2-6:2 FTS	121		20 - 150				09/18/23 14:41	10/06/23 21:47	10

Client Sample ID: Ag-Vg8-082423

Lab Sample ID: 410-141095-11

Date Collected: 08/24/23 13:50

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoropentanoic acid	ND		0.96	0.13	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorooctanoic acid	ND		0.48	0.19	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoropentanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		09/18/23 14:41	10/03/23 01:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg8-082423

Lab Sample ID: 410-141095-11

Date Collected: 08/24/23 13:50

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorooctanesulfonic acid	0.51		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorononanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorodecanesulfonic acid	ND		0.48	0.19	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.10	ng/g		09/18/23 14:41	10/03/23 01:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	1.3	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluorooctanesulfonamide	ND		0.48	0.090	ng/g		09/18/23 14:41	10/03/23 01:27	1
NMeFOSA	ND		0.48	0.072	ng/g		09/18/23 14:41	10/03/23 01:27	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.098	ng/g		09/18/23 14:41	10/03/23 01:27	1
NMeFOSAA	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 01:27	1
NEtFOSAA	ND		0.48	0.16	ng/g		09/18/23 14:41	10/03/23 01:27	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.65	ng/g		09/18/23 14:41	10/03/23 01:27	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		09/18/23 14:41	10/03/23 01:27	1
HFPO-DA	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 01:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.96	0.12	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoro(4-methoxybutanoic acid)	ND		0.96	0.19	ng/g		09/18/23 14:41	10/03/23 01:27	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.96	0.37	ng/g		09/18/23 14:41	10/03/23 01:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 01:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:41	10/03/23 01:27	1
PFEESA	ND		0.96	0.22	ng/g		09/18/23 14:41	10/03/23 01:27	1
3:3 FTCA	ND	*- cn	2.4	0.69	ng/g		09/18/23 14:41	10/03/23 01:27	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:41	10/03/23 01:27	1
7:3 FTCA	ND		12	2.8	ng/g		09/18/23 14:41	10/03/23 01:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	33.1	cn	20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C5 PFPeA	104	cn	20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C5 PFHxA	99.0		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C4 PFHpA	105		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C8 PFOA	98.2		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C9 PFNA	100		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C6 PFDA	111		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C7 PFUnA	120		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C2-PFDoDA	120		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C2 PFTeDA	98.2		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C3 PFBS	110		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C3 PFHxS	104		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C8 PFOS	102		20 - 150	09/18/23 14:41	10/03/23 01:27	1
13C8 FOSA	103		20 - 150	09/18/23 14:41	10/03/23 01:27	1
d3-NMeFOSAA	101		20 - 150	09/18/23 14:41	10/03/23 01:27	1
d5-NEtFOSAA	109		20 - 150	09/18/23 14:41	10/03/23 01:27	1
M2-6:2 FTS	144		20 - 150	09/18/23 14:41	10/03/23 01:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg8-082423

Lab Sample ID: 410-141095-11

Date Collected: 08/24/23 13:50

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99.2		20 - 150	09/18/23 14:41	10/03/23 01:27	1
d7-N-MeFOSE-M	90.2		20 - 150	09/18/23 14:41	10/03/23 01:27	1
d9-N-EtFOSE-M	96.8		20 - 150	09/18/23 14:41	10/03/23 01:27	1
d5-NEtPFOSA	82.4		20 - 150	09/18/23 14:41	10/03/23 01:27	1
d3-NMePFOSA	84.9		20 - 150	09/18/23 14:41	10/03/23 01:27	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.3	ng/g		09/18/23 14:41	10/06/23 22:00	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	6.5	ng/g		09/18/23 14:41	10/06/23 22:00	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	140	cn	20 - 150				09/18/23 14:41	10/06/23 22:00	10
M2-8:2 FTS	132		20 - 150				09/18/23 14:41	10/06/23 22:00	10

Client Sample ID: Ag-Fr3-082423

Lab Sample ID: 410-141095-12

Date Collected: 08/24/23 13:55

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	0.20	0.060	ng/g		09/06/23 09:10	10/03/23 20:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	0.20	0.060	ng/g		09/06/23 09:10	10/03/23 20:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	0.30	0.060	ng/g		09/06/23 09:10	10/03/23 20:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	0.30	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
HFPO-DA	ND	cn	0.20	0.10	ng/g		09/06/23 09:10	10/03/23 20:35	1
NEtFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:35	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:35	1
NMeFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
NMeFOSA	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:35	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorobutanesulfonic acid	ND	cn	0.20	0.040	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorobutanoic acid	ND	cn	0.20	0.080	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorodecanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorodecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorododecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoroheptanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr3-082423

Lab Sample ID: 410-141095-12

Date Collected: 08/24/23 13:55

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorohexanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorohexanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorononanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorononanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorooctanesulfonamide	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorooctanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorooctanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoropentanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoropentanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorotetradecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluorotridecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoroundecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
PFEESA	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
3:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
7:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
5:3 FTCA	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	70	cn	10 - 200	09/06/23 09:10	10/03/23 20:35	1
M2-6:2 FTS	63	cn	10 - 200	09/06/23 09:10	10/03/23 20:35	1
M2-8:2 FTS	65	cn	15 - 200	09/06/23 09:10	10/03/23 20:35	1
13C2 PFTeDA	40	cn	10 - 169	09/06/23 09:10	10/03/23 20:35	1
13C3 HFPO-DA	29	cn	10 - 169	09/06/23 09:10	10/03/23 20:35	1
13C3 PFBS	116	cn	27 - 179	09/06/23 09:10	10/03/23 20:35	1
13C4 PFBA	40	cn	28 - 153	09/06/23 09:10	10/03/23 20:35	1
13C4 PFHpA	44	cn	10 - 178	09/06/23 09:10	10/03/23 20:35	1
13C5 PFPeA	89	cn	24 - 161	09/06/23 09:10	10/03/23 20:35	1
13C8 PFOA	45	cn	26 - 159	09/06/23 09:10	10/03/23 20:35	1
13C8 PFOS	54	cn	41 - 154	09/06/23 09:10	10/03/23 20:35	1
d3-NMeFOSAA	54	cn	10 - 178	09/06/23 09:10	10/03/23 20:35	1
d5-NEtFOSAA	58	cn	10 - 193	09/06/23 09:10	10/03/23 20:35	1
d7-N-MeFOSE-M	45	cn	10 - 179	09/06/23 09:10	10/03/23 20:35	1
d9-N-EtFOSE-M	44	cn	10 - 185	09/06/23 09:10	10/03/23 20:35	1
13C3 PFHxS	50	cn	24 - 171	09/06/23 09:10	10/03/23 20:35	1
13C5 PFHxA	42	cn	10 - 174	09/06/23 09:10	10/03/23 20:35	1
13C6 PFDA	45	cn	26 - 161	09/06/23 09:10	10/03/23 20:35	1
13C7 PFUnA	49	cn	12 - 173	09/06/23 09:10	10/03/23 20:35	1
d3-NMePFOSA	40	cn	10 - 175	09/06/23 09:10	10/03/23 20:35	1
d5-NEtPFOSA	38	cn	10 - 180	09/06/23 09:10	10/03/23 20:35	1
13C8 FOSA	40	cn	14 - 163	09/06/23 09:10	10/03/23 20:35	1
13C2-PFDoDA	47	cn	11 - 166	09/06/23 09:10	10/03/23 20:35	1
13C9 PFNA	49	cn	26 - 165	09/06/23 09:10	10/03/23 20:35	1
13C-6:2 FTCA	25	cn	10 - 200	09/06/23 09:10	10/03/23 20:35	1

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: X2-082423

Lab Sample ID: 410-141095-13

Date Collected: 08/24/23 00:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorotetradecanoic acid	ND		0.50	0.11	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorooctanesulfonic acid	0.19	J	0.50	0.12	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluorooctanesulfonamide	0.44	J	0.50	0.094	ng/g		09/18/23 14:41	10/03/23 01:40	1
NMeFOSA	ND		0.50	0.075	ng/g		09/18/23 14:41	10/03/23 01:40	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:41	10/03/23 01:40	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:41	10/03/23 01:40	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:41	10/03/23 01:40	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		09/18/23 14:41	10/03/23 01:40	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		09/18/23 14:41	10/03/23 01:40	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:41	10/03/23 01:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	1.0	0.12	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		09/18/23 14:41	10/03/23 01:40	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		09/18/23 14:41	10/03/23 01:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:41	10/03/23 01:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/03/23 01:40	1
PFEESA	ND		1.0	0.23	ng/g		09/18/23 14:41	10/03/23 01:40	1
3:3 FTCA	ND	*- cn	2.5	0.72	ng/g		09/18/23 14:41	10/03/23 01:40	1
5:3 FTCA	ND		13	2.1	ng/g		09/18/23 14:41	10/03/23 01:40	1
7:3 FTCA	ND		13	3.0	ng/g		09/18/23 14:41	10/03/23 01:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	11.0	*5- cn	20 - 150				09/18/23 14:41	10/03/23 01:40	1
13C5 PFPeA	76.0	cn	20 - 150				09/18/23 14:41	10/03/23 01:40	1
13C5 PFHxA	106		20 - 150				09/18/23 14:41	10/03/23 01:40	1
13C4 PFHpA	111		20 - 150				09/18/23 14:41	10/03/23 01:40	1
13C8 PFOA	105		20 - 150				09/18/23 14:41	10/03/23 01:40	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: X2-082423

Lab Sample ID: 410-141095-13

Date Collected: 08/24/23 00:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	108		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C6 PFDA	109		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C7 PFUnA	120		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C2-PFDoDA	108		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C2 PFTeDA	101		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C3 PFBS	122		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C3 PFHxS	105		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C8 PFOS	104		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C8 FOSA	112		20 - 150	09/18/23 14:41	10/03/23 01:40	1
d3-NMeFOSAA	88.2		20 - 150	09/18/23 14:41	10/03/23 01:40	1
d5-NEtFOSAA	124		20 - 150	09/18/23 14:41	10/03/23 01:40	1
13C3 HFPO-DA	105		20 - 150	09/18/23 14:41	10/03/23 01:40	1
d7-N-MeFOSE-M	100		20 - 150	09/18/23 14:41	10/03/23 01:40	1
d9-N-EtFOSE-M	98.1		20 - 150	09/18/23 14:41	10/03/23 01:40	1
d5-NEtPFOSA	91.1		20 - 150	09/18/23 14:41	10/03/23 01:40	1
d3-NMePFOSA	70.9		20 - 150	09/18/23 14:41	10/03/23 01:40	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.6	ng/g		09/18/23 14:41	10/05/23 22:03	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:41	10/05/23 22:03	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.8	ng/g		09/18/23 14:41	10/05/23 22:03	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	143	cn	20 - 150				09/18/23 14:41	10/05/23 22:03	10
M2-6:2 FTS	104		20 - 150				09/18/23 14:41	10/05/23 22:03	10
M2-8:2 FTS	117	cn	20 - 150				09/18/23 14:41	10/05/23 22:03	10

Client Sample ID: Ag-Fr4-082423

Lab Sample ID: 410-141095-14

Date Collected: 08/24/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 20:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 20:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		09/06/23 09:10	10/03/23 20:47	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
HFPO-DA	ND		0.20	0.10	ng/g		09/06/23 09:10	10/03/23 20:47	1
NEtFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr4-082423

Lab Sample ID: 410-141095-14

Date Collected: 08/24/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:47	1
NMeFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
NMeFOSA	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:47	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorobutanoic acid	ND		0.20	0.080	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
PFEESA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
3:3 FTCA	ND	*+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
7:3 FTCA	ND	*+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoro-3,6-dioxahexanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
5:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 20:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	49		10 - 200				09/06/23 09:10	10/03/23 20:47	1
M2-6:2 FTS	57		10 - 200				09/06/23 09:10	10/03/23 20:47	1
M2-8:2 FTS	84		15 - 200				09/06/23 09:10	10/03/23 20:47	1
13C2 PFTeDA	40		10 - 169				09/06/23 09:10	10/03/23 20:47	1
13C3 HFPO-DA	40		10 - 169				09/06/23 09:10	10/03/23 20:47	1
13C3 PFBS	52		27 - 179				09/06/23 09:10	10/03/23 20:47	1
13C4 PFBA	38		28 - 153				09/06/23 09:10	10/03/23 20:47	1
13C4 PFHpA	43		10 - 178				09/06/23 09:10	10/03/23 20:47	1
13C5 PFPeA	45		24 - 161				09/06/23 09:10	10/03/23 20:47	1
13C8 PFOA	43		26 - 159				09/06/23 09:10	10/03/23 20:47	1
13C8 PFOS	50		41 - 154				09/06/23 09:10	10/03/23 20:47	1
d3-NMeFOSAA	52		10 - 178				09/06/23 09:10	10/03/23 20:47	1
d5-NEtFOSAA	80		10 - 193				09/06/23 09:10	10/03/23 20:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr4-082423

Lab Sample ID: 410-141095-14

Date Collected: 08/24/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	53		10 - 179	09/06/23 09:10	10/03/23 20:47	1
d9-N-EtFOSE-M	48		10 - 185	09/06/23 09:10	10/03/23 20:47	1
13C3 PFHxS	49		24 - 171	09/06/23 09:10	10/03/23 20:47	1
13C5 PFHxA	40		10 - 174	09/06/23 09:10	10/03/23 20:47	1
13C6 PFDA	43		26 - 161	09/06/23 09:10	10/03/23 20:47	1
13C7 PFUnA	55		12 - 173	09/06/23 09:10	10/03/23 20:47	1
d3-NMePFOSA	54		10 - 175	09/06/23 09:10	10/03/23 20:47	1
d5-NEtPFOSA	42		10 - 180	09/06/23 09:10	10/03/23 20:47	1
13C8 FOSA	48		14 - 163	09/06/23 09:10	10/03/23 20:47	1
13C2-PFDoDA	51		11 - 166	09/06/23 09:10	10/03/23 20:47	1
13C9 PFNA	44		26 - 165	09/06/23 09:10	10/03/23 20:47	1
13C-6:2 FTCA	24		10 - 200	09/06/23 09:10	10/03/23 20:47	1

Client Sample ID: Ag-Fr5-082423

Lab Sample ID: 410-141095-15

Date Collected: 08/24/23 10:35

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.059	ng/g		09/06/23 09:10	10/03/23 20:59	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.059	ng/g		09/06/23 09:10	10/03/23 20:59	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.059	ng/g		09/06/23 09:10	10/03/23 20:59	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
HFPO-DA	ND		0.20	0.099	ng/g		09/06/23 09:10	10/03/23 20:59	1
NEtFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:59	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:59	1
NMeFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
NMeFOSA	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:59	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorobutanoic acid	0.11 J		0.20	0.079	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorodecanesulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorodecanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorododecanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoroheptanesulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoroheptanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorohexanesulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr5-082423

Lab Sample ID: 410-141095-15

Date Collected: 08/24/23 10:35

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorononanesulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorononanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorooctanesulfonamide	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorooctanesulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorooctanoic acid	0.028	J	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoropentanesulfonic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoropentanoic acid	0.021	J	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorotetradecanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluorotridecanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoroundecanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
PFEESA	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
3:3 FTCA	ND	*+	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoro-3-methoxypropanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
7:3 FTCA	ND	*+	0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
5:3 FTCA	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Perfluoro(4-methoxybutanoic acid)	ND		0.059	0.020	ng/g		09/06/23 09:10	10/03/23 20:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	80		10 - 200				09/06/23 09:10	10/03/23 20:59	1
M2-6:2 FTS	87		10 - 200				09/06/23 09:10	10/03/23 20:59	1
M2-8:2 FTS	88		15 - 200				09/06/23 09:10	10/03/23 20:59	1
13C2 PFTeDA	42		10 - 169				09/06/23 09:10	10/03/23 20:59	1
13C3 HFPO-DA	39		10 - 169				09/06/23 09:10	10/03/23 20:59	1
13C3 PFBS	67		27 - 179				09/06/23 09:10	10/03/23 20:59	1
13C4 PFBA	42		28 - 153				09/06/23 09:10	10/03/23 20:59	1
13C4 PFHpA	47		10 - 178				09/06/23 09:10	10/03/23 20:59	1
13C5 PFPeA	51		24 - 161				09/06/23 09:10	10/03/23 20:59	1
13C8 PFOA	48		26 - 159				09/06/23 09:10	10/03/23 20:59	1
13C8 PFOS	55		41 - 154				09/06/23 09:10	10/03/23 20:59	1
d3-NMeFOSAA	54		10 - 178				09/06/23 09:10	10/03/23 20:59	1
d5-NEtFOSAA	67		10 - 193				09/06/23 09:10	10/03/23 20:59	1
d7-N-MeFOSE-M	47		10 - 179				09/06/23 09:10	10/03/23 20:59	1
d9-N-EtFOSE-M	45		10 - 185				09/06/23 09:10	10/03/23 20:59	1
13C3 PFHxS	55		24 - 171				09/06/23 09:10	10/03/23 20:59	1
13C5 PFHxA	36		10 - 174				09/06/23 09:10	10/03/23 20:59	1
13C6 PFDA	47		26 - 161				09/06/23 09:10	10/03/23 20:59	1
13C7 PFUnA	47		12 - 173				09/06/23 09:10	10/03/23 20:59	1
d3-NMePFOSA	43		10 - 175				09/06/23 09:10	10/03/23 20:59	1
d5-NEtPFOSA	39		10 - 180				09/06/23 09:10	10/03/23 20:59	1
13C8 FOSA	48		14 - 163				09/06/23 09:10	10/03/23 20:59	1
13C2-PFDoDA	44		11 - 166				09/06/23 09:10	10/03/23 20:59	1
13C9 PFNA	48		26 - 165				09/06/23 09:10	10/03/23 20:59	1
13C-6:2 FTCA	30		10 - 200				09/06/23 09:10	10/03/23 20:59	1

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr6-082423

Lab Sample ID: 410-141095-16

Date Collected: 08/24/23 10:40

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 21:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 21:11	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		09/06/23 09:10	10/03/23 21:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
HFPO-DA	ND		0.20	0.10	ng/g		09/06/23 09:10	10/03/23 21:11	1
NEtFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:11	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:11	1
NMeFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
NMeFOSA	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:11	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorobutanoic acid	ND		0.20	0.080	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorooctanoic acid	0.026	J	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoropentanoic acid	0.025	J	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
PFEESA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
3:3 FTCA	ND	*+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
7:3 FTCA	ND	*+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
5:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr6-082423

Lab Sample ID: 410-141095-16

Date Collected: 08/24/23 10:40

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	84		10 - 200	09/06/23 09:10	10/03/23 21:11	1
M2-6:2 FTS	57		10 - 200	09/06/23 09:10	10/03/23 21:11	1
M2-8:2 FTS	53		15 - 200	09/06/23 09:10	10/03/23 21:11	1
13C2 PFTeDA	43		10 - 169	09/06/23 09:10	10/03/23 21:11	1
13C3 HFPO-DA	41		10 - 169	09/06/23 09:10	10/03/23 21:11	1
13C3 PFBS	99		27 - 179	09/06/23 09:10	10/03/23 21:11	1
13C4 PFBA	44		28 - 153	09/06/23 09:10	10/03/23 21:11	1
13C4 PFHpA	50		10 - 178	09/06/23 09:10	10/03/23 21:11	1
13C5 PFPeA	74		24 - 161	09/06/23 09:10	10/03/23 21:11	1
13C8 PFOA	52		26 - 159	09/06/23 09:10	10/03/23 21:11	1
13C8 PFOS	58		41 - 154	09/06/23 09:10	10/03/23 21:11	1
d3-NMeFOSAA	48		10 - 178	09/06/23 09:10	10/03/23 21:11	1
d5-NEtFOSAA	60		10 - 193	09/06/23 09:10	10/03/23 21:11	1
d7-N-MeFOSE-M	46		10 - 179	09/06/23 09:10	10/03/23 21:11	1
d9-N-EtFOSE-M	45		10 - 185	09/06/23 09:10	10/03/23 21:11	1
13C3 PFHxS	61		24 - 171	09/06/23 09:10	10/03/23 21:11	1
13C5 PFHxA	48		10 - 174	09/06/23 09:10	10/03/23 21:11	1
13C6 PFDA	51		26 - 161	09/06/23 09:10	10/03/23 21:11	1
13C7 PFUnA	53		12 - 173	09/06/23 09:10	10/03/23 21:11	1
d3-NMePFOSA	41		10 - 175	09/06/23 09:10	10/03/23 21:11	1
d5-NEtPFOSA	36		10 - 180	09/06/23 09:10	10/03/23 21:11	1
13C8 FOSA	48		14 - 163	09/06/23 09:10	10/03/23 21:11	1
13C2-PFDODA	52		11 - 166	09/06/23 09:10	10/03/23 21:11	1
13C9 PFNA	49		26 - 165	09/06/23 09:10	10/03/23 21:11	1
13C-6:2 FTCA	32		10 - 200	09/06/23 09:10	10/03/23 21:11	1

Client Sample ID: Ag-Vg9-082423

Lab Sample ID: 410-141095-17

Date Collected: 08/24/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoropentanoic acid	ND		0.96	0.13	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorooctanoic acid	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoropentanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorooctanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorononanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorodecanesulfonic acid	ND		0.48	0.19	ng/g		09/18/23 14:41	10/03/23 02:45	1

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg9-082423

Lab Sample ID: 410-141095-17

Date Collected: 08/24/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.10	ng/g		09/18/23 14:41	10/03/23 02:45	1
1H,1H,2H,2H-perfluorododecanesulfonic acid (8:2)	ND		1.9	0.66	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluorooctanesulfonamide	ND		0.48	0.090	ng/g		09/18/23 14:41	10/03/23 02:45	1
NMeFOSA	ND		0.48	0.072	ng/g		09/18/23 14:41	10/03/23 02:45	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.098	ng/g		09/18/23 14:41	10/03/23 02:45	1
NMeFOSAA	ND		0.48	0.20	ng/g		09/18/23 14:41	10/03/23 02:45	1
NEtFOSAA	ND		0.48	0.16	ng/g		09/18/23 14:41	10/03/23 02:45	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.65	ng/g		09/18/23 14:41	10/03/23 02:45	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		09/18/23 14:41	10/03/23 02:45	1
HFPO-DA	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 02:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.96	0.12	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoro(4-methoxybutanoic acid)	ND		0.96	0.19	ng/g		09/18/23 14:41	10/03/23 02:45	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.96	0.37	ng/g		09/18/23 14:41	10/03/23 02:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:41	10/03/23 02:45	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:41	10/03/23 02:45	1
PFEESA	ND		0.96	0.22	ng/g		09/18/23 14:41	10/03/23 02:45	1
3:3 FTCA	ND	*- cn	2.4	0.69	ng/g		09/18/23 14:41	10/03/23 02:45	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:41	10/03/23 02:45	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:41	10/03/23 02:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98.4	cn	20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C5 PFPeA	105	cn	20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C5 PFHxA	101		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C4 PFHpA	106		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C8 PFOA	111		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C9 PFNA	106		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C6 PFDA	114		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C7 PFUnA	118		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C2-PFDoDA	110		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C2 PFTeDA	90.4		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C3 PFBS	117		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C3 PFHxS	100		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C8 PFOS	102		20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C8 FOSA	94.8		20 - 150	09/18/23 14:41	10/03/23 02:45	1
d3-NMeFOSAA	105		20 - 150	09/18/23 14:41	10/03/23 02:45	1
d5-NEtFOSAA	105		20 - 150	09/18/23 14:41	10/03/23 02:45	1
M2-8:2 FTS	115	cn	20 - 150	09/18/23 14:41	10/03/23 02:45	1
13C3 HFPO-DA	102		20 - 150	09/18/23 14:41	10/03/23 02:45	1
d7-N-MeFOSE-M	89.3		20 - 150	09/18/23 14:41	10/03/23 02:45	1
d9-N-EtFOSE-M	84.0		20 - 150	09/18/23 14:41	10/03/23 02:45	1
d5-NEtPFOSA	86.5		20 - 150	09/18/23 14:41	10/03/23 02:45	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg9-082423

Lab Sample ID: 410-141095-17

Date Collected: 08/24/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	92.5		20 - 150	09/18/23 14:41	10/03/23 02:45	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.3	ng/g		09/18/23 14:41	10/05/23 22:16	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:41	10/05/23 22:16	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	121	cn	20 - 150				09/18/23 14:41	10/05/23 22:16	10
M2-6:2 FTS	117		20 - 150				09/18/23 14:41	10/05/23 22:16	10

Client Sample ID: Ag-Vg10-082423

Lab Sample ID: 410-141095-18

Date Collected: 08/24/23 15:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorohexanoic acid	ND		0.50	0.16	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorododecanoic acid	ND		0.50	0.078	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorotridecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoropentanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorohexanesulfonic acid	ND		0.50	0.076	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorononanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorododecanesulfonic acid	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 04:16	1
(PFDoS)									
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.55	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluorooctanesulfonamide	ND		0.50	0.093	ng/g		09/18/23 14:23	10/03/23 04:16	1
NMeFOSA	ND		0.50	0.074	ng/g		09/18/23 14:23	10/03/23 04:16	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:16	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:16	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:16	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.67	ng/g		09/18/23 14:23	10/03/23 04:16	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.8	ng/g		09/18/23 14:23	10/03/23 04:16	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:16	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg10-082423

Lab Sample ID: 410-141095-18

Date Collected: 08/24/23 15:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.99	0.12	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:23	10/03/23 04:16	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.99	0.39	ng/g		09/18/23 14:23	10/03/23 04:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:16	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 04:16	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:23	10/03/23 04:16	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:23	10/03/23 04:16	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:23	10/03/23 04:16	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 04:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	15.8	*5- cn	20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C5 PFPeA	135	cn	20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C5 PFHxA	102		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C8 PFOA	102		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C9 PFNA	110		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C6 PFDA	110		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C7 PFUnA	111		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C2-PFDoDA	118		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C2 PFTeDA	98.1		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C3 PFBS	82.5		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C3 PFHxS	111		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C8 PFOS	106		20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C8 FOSA	97.7		20 - 150	09/18/23 14:23	10/03/23 04:16	1
d3-NMeFOSAA	109		20 - 150	09/18/23 14:23	10/03/23 04:16	1
d5-NEtFOSAA	111		20 - 150	09/18/23 14:23	10/03/23 04:16	1
M2-4:2 FTS	258	*5+ cn	20 - 150	09/18/23 14:23	10/03/23 04:16	1
13C7 HFPO-DA	124		20 - 150	09/18/23 14:23	10/03/23 04:16	1
d7-N-MeFOSE-M	99.1		20 - 150	09/18/23 14:23	10/03/23 04:16	1
d9-N-EtFOSE-M	99.7		20 - 150	09/18/23 14:23	10/03/23 04:16	1
d5-NEtPFOSA	86.0		20 - 150	09/18/23 14:23	10/03/23 04:16	1
d3-NMePFOSA	86.1		20 - 150	09/18/23 14:23	10/03/23 04:16	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	ND		5.0	1.2	ng/g		09/18/23 14:23	10/16/23 11:27	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:23	10/16/23 11:27	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.8	ng/g		09/18/23 14:23	10/16/23 11:27	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	82.7		20 - 150				09/18/23 14:23	10/16/23 11:27	10
M2-6:2 FTS	134		20 - 150				09/18/23 14:23	10/16/23 11:27	10
M2-8:2 FTS	104		20 - 150				09/18/23 14:23	10/16/23 11:27	10

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg11-082423

Lab Sample ID: 410-141095-19

Date Collected: 08/24/23 15:05

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	0.40	J	2.0	0.36	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoropentanoic acid	ND		0.98	0.13	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorooctanoic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorododecanoic acid	ND		0.49	0.077	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorotridecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoropentanesulfonic acid	ND		0.49	0.090	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorohexanesulfonic acid	ND		0.49	0.075	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorononanesulfonic acid	ND		0.49	0.090	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluorooctanesulfonamide	ND		0.49	0.092	ng/g		09/18/23 14:23	10/03/23 03:50	1
NMeFOSA	ND		0.49	0.074	ng/g		09/18/23 14:23	10/03/23 03:50	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.10	ng/g		09/18/23 14:23	10/03/23 03:50	1
NMeFOSAA	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 03:50	1
NEtFOSAA	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 03:50	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.67	ng/g		09/18/23 14:23	10/03/23 03:50	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:23	10/03/23 03:50	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 03:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.39	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.98	0.12	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoro(4-methoxybutanoic acid)	ND		0.98	0.20	ng/g		09/18/23 14:23	10/03/23 03:50	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.98	0.38	ng/g		09/18/23 14:23	10/03/23 03:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 03:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 03:50	1
PFEESA	ND		0.98	0.23	ng/g		09/18/23 14:23	10/03/23 03:50	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:23	10/03/23 03:50	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:23	10/03/23 03:50	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 03:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	10.5	*5- cn	20 - 150				09/18/23 14:23	10/03/23 03:50	1
13C5 PFPeA	61.3	cn	20 - 150				09/18/23 14:23	10/03/23 03:50	1
13C5 PFHxA	99.8		20 - 150				09/18/23 14:23	10/03/23 03:50	1
13C4 PFHpA	113		20 - 150				09/18/23 14:23	10/03/23 03:50	1
13C8 PFOA	101		20 - 150				09/18/23 14:23	10/03/23 03:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg11-082423

Lab Sample ID: 410-141095-19

Date Collected: 08/24/23 15:05

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	106		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C6 PFDA	109		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C7 PFUnA	124		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C2-PFDoDA	117		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C2 PFTeDA	96.5		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C3 PFBS	119		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C3 PFHxS	111		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C8 PFOS	108		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C8 FOSA	99.4		20 - 150	09/18/23 14:23	10/03/23 03:50	1
d3-NMeFOSAA	106		20 - 150	09/18/23 14:23	10/03/23 03:50	1
d5-NEtFOSAA	96.9		20 - 150	09/18/23 14:23	10/03/23 03:50	1
13C3 HFPO-DA	99.9		20 - 150	09/18/23 14:23	10/03/23 03:50	1
d7-N-MeFOSE-M	91.2		20 - 150	09/18/23 14:23	10/03/23 03:50	1
d9-N-EtFOSE-M	89.7		20 - 150	09/18/23 14:23	10/03/23 03:50	1
d5-NEtPFOSA	79.6		20 - 150	09/18/23 14:23	10/03/23 03:50	1
d3-NMePFOSA	82.7		20 - 150	09/18/23 14:23	10/03/23 03:50	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.4	ng/g		09/18/23 14:23	10/16/23 11:40	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	14	ng/g		09/18/23 14:23	10/16/23 11:40	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.7	ng/g		09/18/23 14:23	10/16/23 11:40	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	104	cn	20 - 150				09/18/23 14:23	10/16/23 11:40	10
M2-6:2 FTS	97.9		20 - 150				09/18/23 14:23	10/16/23 11:40	10
M2-8:2 FTS	96.0		20 - 150				09/18/23 14:23	10/16/23 11:40	10

Client Sample ID: Ag-Vg12-082423

Lab Sample ID: 410-141095-20

Date Collected: 08/24/23 15:10

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	1.8	J	2.0	0.36	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg12-082423

Lab Sample ID: 410-141095-20

Date Collected: 08/24/23 15:10

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 04:03	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.55	ng/g		09/18/23 14:23	10/03/23 04:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		09/18/23 14:23	10/03/23 04:03	1
NMeFOSA	ND		0.50	0.075	ng/g		09/18/23 14:23	10/03/23 04:03	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:03	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:03	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:03	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		09/18/23 14:23	10/03/23 04:03	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		09/18/23 14:23	10/03/23 04:03	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	1.0	0.12	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		09/18/23 14:23	10/03/23 04:03	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		09/18/23 14:23	10/03/23 04:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 04:03	1
PFEESA	ND		1.0	0.23	ng/g		09/18/23 14:23	10/03/23 04:03	1
3:3 FTCA	ND	*- cn	2.5	0.72	ng/g		09/18/23 14:23	10/03/23 04:03	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:23	10/03/23 04:03	1
7:3 FTCA	ND		12	3.0	ng/g		09/18/23 14:23	10/03/23 04:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	12.8	*5- cn	20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C5 PFPeA	74.4	cn	20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C5 PFHxA	104		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C4 PFHpA	110		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C8 PFOA	93.3		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C9 PFNA	106		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C6 PFDA	110		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C7 PFUnA	108		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C2-PFDoDA	120		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C2 PFTeDA	92.5		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C3 PFBS	123		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C3 PFHxS	110		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C8 PFOS	108		20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C8 FOSA	98.7		20 - 150	09/18/23 14:23	10/03/23 04:03	1
d3-NMeFOSAA	97.8		20 - 150	09/18/23 14:23	10/03/23 04:03	1
d5-NEtFOSAA	104		20 - 150	09/18/23 14:23	10/03/23 04:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg12-082423

Lab Sample ID: 410-141095-20

Date Collected: 08/24/23 15:10

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	270	*5+ cn	20 - 150	09/18/23 14:23	10/03/23 04:03	1
M2-6:2 FTS	239	*5+ cn	20 - 150	09/18/23 14:23	10/03/23 04:03	1
13C3 HFPO-DA	103		20 - 150	09/18/23 14:23	10/03/23 04:03	1
d7-N-MeFOSE-M	91.9		20 - 150	09/18/23 14:23	10/03/23 04:03	1
d9-N-EtFOSE-M	82.1		20 - 150	09/18/23 14:23	10/03/23 04:03	1
d5-NEtPFOSA	84.8		20 - 150	09/18/23 14:23	10/03/23 04:03	1
d3-NMePFOSA	91.7		20 - 150	09/18/23 14:23	10/03/23 04:03	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.8	ng/g		09/18/23 14:23	10/16/23 11:53	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-8:2 FTS	93.3		20 - 150				09/18/23 14:23	10/16/23 11:53	10

Client Sample ID: Ag-Vg13-082423

Lab Sample ID: 410-141095-21

Date Collected: 08/24/23 15:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoropentanoic acid	ND		0.96	0.13	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorooctanoic acid	ND		0.48	0.20	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoropentanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorooctanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorononanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorodecanesulfonic acid	ND		0.48	0.19	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.10	ng/g		09/18/23 14:23	10/03/23 04:29	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.66	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluorooctanesulfonamide	ND		0.48	0.090	ng/g		09/18/23 14:23	10/03/23 04:29	1
NMeFOSA	ND		0.48	0.072	ng/g		09/18/23 14:23	10/03/23 04:29	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.098	ng/g		09/18/23 14:23	10/03/23 04:29	1
NMeFOSAA	ND		0.48	0.20	ng/g		09/18/23 14:23	10/03/23 04:29	1
NEtFOSAA	ND		0.48	0.16	ng/g		09/18/23 14:23	10/03/23 04:29	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.65	ng/g		09/18/23 14:23	10/03/23 04:29	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg13-082423

Lab Sample ID: 410-141095-21

Date Collected: 08/24/23 15:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		09/18/23 14:23	10/03/23 04:29	1
HFPO-DA	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 04:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoro-3-methoxypropanoic acid	ND	F2 F1 *- cn	0.96	0.12	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoro(4-methoxybutanoic acid)	ND	F2	0.96	0.19	ng/g		09/18/23 14:23	10/03/23 04:29	1
Perfluoro-3,6-dioxaheptanoic acid	ND	F2	0.96	0.37	ng/g		09/18/23 14:23	10/03/23 04:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 04:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:23	10/03/23 04:29	1
PFEESA	ND		0.96	0.22	ng/g		09/18/23 14:23	10/03/23 04:29	1
3:3 FTCA	ND	F2 *- cn	2.4	0.69	ng/g		09/18/23 14:23	10/03/23 04:29	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:23	10/03/23 04:29	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 04:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	10.1	*5- cn	20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C5 PFPeA	61.7	cn	20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C5 PFHxA	98.8		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C4 PFHpA	124		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C8 PFOA	106		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C9 PFNA	107		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C6 PFDA	117		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C7 PFUnA	124		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C2-PFDoDA	125		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C2 PFTeDA	100		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C3 PFBS	106		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C3 PFHxS	111		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C8 PFOS	109		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C8 FOSA	97.3		20 - 150	09/18/23 14:23	10/03/23 04:29	1
d3-NMeFOSAA	102		20 - 150	09/18/23 14:23	10/03/23 04:29	1
d5-NEtFOSAA	107		20 - 150	09/18/23 14:23	10/03/23 04:29	1
M2-8:2 FTS	146		20 - 150	09/18/23 14:23	10/03/23 04:29	1
13C3 HFPO-DA	86.3		20 - 150	09/18/23 14:23	10/03/23 04:29	1
d7-N-MeFOSE-M	94.5		20 - 150	09/18/23 14:23	10/03/23 04:29	1
d9-N-EtFOSE-M	87.6		20 - 150	09/18/23 14:23	10/03/23 04:29	1
d5-NEtPFOSA	83.9		20 - 150	09/18/23 14:23	10/03/23 04:29	1
d3-NMePFOSA	92.8		20 - 150	09/18/23 14:23	10/03/23 04:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.3	ng/g		09/18/23 14:23	10/16/23 12:06	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:23	10/16/23 12:06	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	122	cn	20 - 150				09/18/23 14:23	10/16/23 12:06	10
M2-6:2 FTS	106		20 - 150				09/18/23 14:23	10/16/23 12:06	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg14-082423

Lab Sample ID: 410-141095-22

Date Collected: 08/24/23 15:20

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	1.1	J	2.0	0.36	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorohexanoic acid	ND		0.50	0.16	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorododecanoic acid	ND		0.50	0.078	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorotridecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoropentanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorohexanesulfonic acid	ND		0.50	0.076	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorononanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluorooctanesulfonamide	ND		0.50	0.093	ng/g		09/18/23 14:23	10/03/23 04:42	1
NMeFOSA	ND		0.50	0.074	ng/g		09/18/23 14:23	10/03/23 04:42	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:42	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:42	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:42	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.67	ng/g		09/18/23 14:23	10/03/23 04:42	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.8	ng/g		09/18/23 14:23	10/03/23 04:42	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoro-3-methoxypropanoic acid	0.14	J *- cn	0.99	0.12	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:23	10/03/23 04:42	1
Perfluoro-3,6-dioxahexanoic acid	ND		0.99	0.39	ng/g		09/18/23 14:23	10/03/23 04:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:42	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 04:42	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:23	10/03/23 04:42	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:23	10/03/23 04:42	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:23	10/03/23 04:42	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 04:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	9.29	*5- cn	20 - 150				09/18/23 14:23	10/03/23 04:42	1
13C5 PFPeA	53.2	cn	20 - 150				09/18/23 14:23	10/03/23 04:42	1
13C5 PFHxA	102		20 - 150				09/18/23 14:23	10/03/23 04:42	1
13C4 PFHpA	110		20 - 150				09/18/23 14:23	10/03/23 04:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg14-082423

Lab Sample ID: 410-141095-22

Date Collected: 08/24/23 15:20

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	94.5		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C9 PFNA	107		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C6 PFDA	116		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C7 PFUnA	114		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C2-PFDoDA	119		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C2 PFTeDA	97.9		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C3 PFBS	107		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C3 PFHxS	107		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C8 PFOS	103		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C8 FOSA	101		20 - 150	09/18/23 14:23	10/03/23 04:42	1
d3-NMeFOSAA	101		20 - 150	09/18/23 14:23	10/03/23 04:42	1
d5-NEtFOSAA	108		20 - 150	09/18/23 14:23	10/03/23 04:42	1
13C3 HFPO-DA	97.7		20 - 150	09/18/23 14:23	10/03/23 04:42	1
d7-N-MeFOSE-M	97.5		20 - 150	09/18/23 14:23	10/03/23 04:42	1
d9-N-EtFOSE-M	98.3		20 - 150	09/18/23 14:23	10/03/23 04:42	1
d5-NEtPFOSA	90.0		20 - 150	09/18/23 14:23	10/03/23 04:42	1
d3-NMePFOSA	82.4		20 - 150	09/18/23 14:23	10/03/23 04:42	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		09/18/23 14:23	10/16/23 12:19	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:23	10/16/23 12:19	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.8	ng/g		09/18/23 14:23	10/16/23 12:19	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	140	cn	20 - 150				09/18/23 14:23	10/16/23 12:19	10
M2-6:2 FTS	109		20 - 150				09/18/23 14:23	10/16/23 12:19	10
M2-8:2 FTS	108		20 - 150				09/18/23 14:23	10/16/23 12:19	10

Client Sample ID: Ag-Vg15-082423

Lab Sample ID: 410-141095-23

Date Collected: 08/24/23 15:25

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		09/18/23 14:23	10/03/23 04:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg15-082423

Lab Sample ID: 410-141095-23

Date Collected: 08/24/23 15:25

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 04:55	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		09/18/23 14:23	10/03/23 04:55	1
NMeFOSA	ND		0.50	0.075	ng/g		09/18/23 14:23	10/03/23 04:55	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 04:55	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 04:55	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 04:55	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		09/18/23 14:23	10/03/23 04:55	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		09/18/23 14:23	10/03/23 04:55	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	1.0	0.12	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		09/18/23 14:23	10/03/23 04:55	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		09/18/23 14:23	10/03/23 04:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 04:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 04:55	1
PFEESA	ND		1.0	0.23	ng/g		09/18/23 14:23	10/03/23 04:55	1
3:3 FTCA	ND	*- cn	2.5	0.72	ng/g		09/18/23 14:23	10/03/23 04:55	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:23	10/03/23 04:55	1
7:3 FTCA	ND		12	3.0	ng/g		09/18/23 14:23	10/03/23 04:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	108	cn	20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C5 PFPeA	106	cn	20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C5 PFHxA	103		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C4 PFHpA	101		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C8 PFOA	104		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C9 PFNA	104		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C6 PFDA	103		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C7 PFUnA	105		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C2-PFDoDA	111		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C2 PFTeDA	92.4		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C3 PFBS	109		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C3 PFHxS	111		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C8 PFOS	104		20 - 150	09/18/23 14:23	10/03/23 04:55	1
13C8 FOSA	96.0		20 - 150	09/18/23 14:23	10/03/23 04:55	1
d3-NMeFOSAA	101		20 - 150	09/18/23 14:23	10/03/23 04:55	1
d5-NEtFOSAA	109		20 - 150	09/18/23 14:23	10/03/23 04:55	1
M2-6:2 FTS	144		20 - 150	09/18/23 14:23	10/03/23 04:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg15-082423

Lab Sample ID: 410-141095-23

Date Collected: 08/24/23 15:25

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		20 - 150	09/18/23 14:23	10/03/23 04:55	1
d7-N-MeFOSE-M	100		20 - 150	09/18/23 14:23	10/03/23 04:55	1
d9-N-EtFOSE-M	93.5		20 - 150	09/18/23 14:23	10/03/23 04:55	1
d5-NEtPFOSA	87.2		20 - 150	09/18/23 14:23	10/03/23 04:55	1
d3-NMePFOSA	97.7		20 - 150	09/18/23 14:23	10/03/23 04:55	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		09/18/23 14:23	10/16/23 12:32	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.8	ng/g		09/18/23 14:23	10/16/23 12:32	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	98.4	cn	20 - 150				09/18/23 14:23	10/16/23 12:32	10
M2-8:2 FTS	82.1	cn	20 - 150				09/18/23 14:23	10/16/23 12:32	10

Client Sample ID: Ag-Fr7-082423

Lab Sample ID: 410-141095-24

Date Collected: 08/24/23 15:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 21:23	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/03/23 21:23	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		09/06/23 09:10	10/03/23 21:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
HFPO-DA	ND		0.20	0.099	ng/g		09/06/23 09:10	10/03/23 21:23	1
NEtFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:23	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:23	1
NMeFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
NMeFOSA	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:23	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorobutanoic acid	ND		0.20	0.079	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr7-082423

Lab Sample ID: 410-141095-24

Date Collected: 08/24/23 15:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
PFEESA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
3:3 FTCA	ND	*+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
7:3 FTCA	ND	*+	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
5:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	83		10 - 200	09/06/23 09:10	10/03/23 21:23	1
M2-6:2 FTS	61		10 - 200	09/06/23 09:10	10/03/23 21:23	1
M2-8:2 FTS	92		15 - 200	09/06/23 09:10	10/03/23 21:23	1
13C2 PFTeDA	29		10 - 169	09/06/23 09:10	10/03/23 21:23	1
13C3 HFPO-DA	38		10 - 169	09/06/23 09:10	10/03/23 21:23	1
13C3 PFBS	63		27 - 179	09/06/23 09:10	10/03/23 21:23	1
13C4 PFBA	42		28 - 153	09/06/23 09:10	10/03/23 21:23	1
13C4 PFHpA	48		10 - 178	09/06/23 09:10	10/03/23 21:23	1
13C5 PFPeA	52		24 - 161	09/06/23 09:10	10/03/23 21:23	1
13C8 PFOA	48		26 - 159	09/06/23 09:10	10/03/23 21:23	1
13C8 PFOS	54		41 - 154	09/06/23 09:10	10/03/23 21:23	1
d3-NMeFOSAA	66		10 - 178	09/06/23 09:10	10/03/23 21:23	1
d5-NEtFOSAA	92		10 - 193	09/06/23 09:10	10/03/23 21:23	1
d7-N-MeFOSE-M	52		10 - 179	09/06/23 09:10	10/03/23 21:23	1
d9-N-EtFOSE-M	48		10 - 185	09/06/23 09:10	10/03/23 21:23	1
13C3 PFHxS	54		24 - 171	09/06/23 09:10	10/03/23 21:23	1
13C5 PFHxA	47		10 - 174	09/06/23 09:10	10/03/23 21:23	1
13C6 PFDA	47		26 - 161	09/06/23 09:10	10/03/23 21:23	1
13C7 PFUnA	56		12 - 173	09/06/23 09:10	10/03/23 21:23	1
d3-NMePFOSA	51		10 - 175	09/06/23 09:10	10/03/23 21:23	1
d5-NEtPFOSA	41		10 - 180	09/06/23 09:10	10/03/23 21:23	1
13C8 FOSA	47		14 - 163	09/06/23 09:10	10/03/23 21:23	1
13C2-PFDoDA	56		11 - 166	09/06/23 09:10	10/03/23 21:23	1
13C9 PFNA	48		26 - 165	09/06/23 09:10	10/03/23 21:23	1
13C-6:2 FTCA	25		10 - 200	09/06/23 09:10	10/03/23 21:23	1

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg16-082423

Lab Sample ID: 410-141095-25

Date Collected: 08/24/23 15:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoropentanoic acid	ND		0.97	0.13	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorooctanoic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorododecanoic acid	ND		0.49	0.077	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorotridecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoropentanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorohexanesulfonic acid	ND		0.49	0.075	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorononanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluorooctanesulfonamide	ND		0.49	0.091	ng/g		09/18/23 14:23	10/03/23 05:08	1
NMeFOSA	ND		0.49	0.073	ng/g		09/18/23 14:23	10/03/23 05:08	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.099	ng/g		09/18/23 14:23	10/03/23 05:08	1
NMeFOSAA	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 05:08	1
NEtFOSAA	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 05:08	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.66	ng/g		09/18/23 14:23	10/03/23 05:08	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:23	10/03/23 05:08	1
HFPO-DA	ND		1.9	0.26	ng/g		09/18/23 14:23	10/03/23 05:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.39	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.97	0.12	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoro(4-methoxybutanoic acid)	ND		0.97	0.19	ng/g		09/18/23 14:23	10/03/23 05:08	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.97	0.38	ng/g		09/18/23 14:23	10/03/23 05:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 05:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:23	10/03/23 05:08	1
PFEESA	ND		0.97	0.22	ng/g		09/18/23 14:23	10/03/23 05:08	1
3:3 FTCA	ND	*- cn	2.4	0.70	ng/g		09/18/23 14:23	10/03/23 05:08	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:23	10/03/23 05:08	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 05:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	101	cn	20 - 150				09/18/23 14:23	10/03/23 05:08	1
13C5 PFPeA	94.1	cn	20 - 150				09/18/23 14:23	10/03/23 05:08	1
13C5 PFHxA	97.4		20 - 150				09/18/23 14:23	10/03/23 05:08	1
13C4 PFHpA	107		20 - 150				09/18/23 14:23	10/03/23 05:08	1
13C8 PFOA	101		20 - 150				09/18/23 14:23	10/03/23 05:08	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg16-082423

Lab Sample ID: 410-141095-25

Date Collected: 08/24/23 15:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	101		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C6 PFDA	110		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C7 PFUnA	114		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C2-PFDoDA	109		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C2 PFTeDA	103		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C3 PFBS	118		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C3 PFHxS	112		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C8 PFOS	94.7		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C8 FOSA	102		20 - 150	09/18/23 14:23	10/03/23 05:08	1
d3-NMeFOSAA	100		20 - 150	09/18/23 14:23	10/03/23 05:08	1
d5-NEtFOSAA	121		20 - 150	09/18/23 14:23	10/03/23 05:08	1
13C3 HFPO-DA	97.6		20 - 150	09/18/23 14:23	10/03/23 05:08	1
d7-N-MeFOSE-M	96.6		20 - 150	09/18/23 14:23	10/03/23 05:08	1
d9-N-EtFOSE-M	93.2		20 - 150	09/18/23 14:23	10/03/23 05:08	1
d5-NEtPFOSA	84.1		20 - 150	09/18/23 14:23	10/03/23 05:08	1
d3-NMePFOSA	73.9		20 - 150	09/18/23 14:23	10/03/23 05:08	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.4	ng/g		09/18/23 14:23	10/16/23 12:46	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:23	10/16/23 12:46	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	6.6	ng/g		09/18/23 14:23	10/16/23 12:46	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	137	cn	20 - 150				09/18/23 14:23	10/16/23 12:46	10
M2-6:2 FTS	117		20 - 150				09/18/23 14:23	10/16/23 12:46	10
M2-8:2 FTS	124		20 - 150				09/18/23 14:23	10/16/23 12:46	10

Client Sample ID: Ag-Vg17-082423

Lab Sample ID: 410-141095-26

Date Collected: 08/24/23 15:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorohexanoic acid	ND		0.50	0.16	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorodecanoic acid	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorododecanoic acid	ND		0.50	0.078	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorotridecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorotetradecanoic acid	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoropentanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorohexanesulfonic acid	ND		0.50	0.076	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 05:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg17-082423

Lab Sample ID: 410-141095-26

Date Collected: 08/24/23 15:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorononanesulfonic acid	ND		0.50	0.091	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluorooctanesulfonamide	ND		0.50	0.093	ng/g		09/18/23 14:23	10/03/23 05:21	1
NMeFOSA	ND		0.50	0.074	ng/g		09/18/23 14:23	10/03/23 05:21	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 05:21	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 05:21	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 05:21	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.67	ng/g		09/18/23 14:23	10/03/23 05:21	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.8	ng/g		09/18/23 14:23	10/03/23 05:21	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 05:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.99	0.12	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		09/18/23 14:23	10/03/23 05:21	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.99	0.39	ng/g		09/18/23 14:23	10/03/23 05:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 05:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 05:21	1
PFEESA	ND		0.99	0.23	ng/g		09/18/23 14:23	10/03/23 05:21	1
3:3 FTCA	ND	*- cn	2.5	0.71	ng/g		09/18/23 14:23	10/03/23 05:21	1
5:3 FTCA	ND		12	2.1	ng/g		09/18/23 14:23	10/03/23 05:21	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 05:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	10.8	*5- cn	20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C5 PFPeA	68.7	cn	20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C5 PFHxA	109		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C4 PFHpA	117		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C8 PFOA	107		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C9 PFNA	110		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C6 PFDA	113		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C7 PFUnA	124		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C2-PFDoDA	126		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C2 PFTeDA	94.9		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C3 PFBS	112		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C3 PFHxS	103		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C8 PFOS	103		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C8 FOSA	98.0		20 - 150				09/18/23 14:23	10/03/23 05:21	1
d3-NMeFOSAA	105		20 - 150				09/18/23 14:23	10/03/23 05:21	1
d5-NEtFOSAA	110		20 - 150				09/18/23 14:23	10/03/23 05:21	1
13C3 HFPO-DA	99.6		20 - 150				09/18/23 14:23	10/03/23 05:21	1
d7-N-MeFOSE-M	92.7		20 - 150				09/18/23 14:23	10/03/23 05:21	1
d9-N-EtFOSE-M	88.9		20 - 150				09/18/23 14:23	10/03/23 05:21	1
d5-NEtPFOSA	83.2		20 - 150				09/18/23 14:23	10/03/23 05:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg17-082423

Lab Sample ID: 410-141095-26

Date Collected: 08/24/23 15:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	81.7		20 - 150	09/18/23 14:23	10/03/23 05:21	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		09/18/23 14:23	10/16/23 12:59	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		09/18/23 14:23	10/16/23 12:59	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	6.8	ng/g		09/18/23 14:23	10/16/23 12:59	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	111	cn	20 - 150				09/18/23 14:23	10/16/23 12:59	10
M2-6:2 FTS	98.2		20 - 150				09/18/23 14:23	10/16/23 12:59	10
M2-8:2 FTS	89.5		20 - 150				09/18/23 14:23	10/16/23 12:59	10

Client Sample ID: X3-082423

Lab Sample ID: 410-141095-27

Date Collected: 08/24/23 00:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoropentanoic acid	ND		0.96	0.13	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorohexanoic acid	ND		0.48	0.16	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoroheptanoic acid	ND		0.48	0.11	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorooctanoic acid	ND		0.48	0.20	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorononanoic acid	ND		0.48	0.15	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorodecanoic acid	ND		0.48	0.21	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoroundecanoic acid	ND		0.48	0.12	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorododecanoic acid	ND		0.48	0.076	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorotridecanoic acid	ND		0.48	0.077	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorotetradecanoic acid	ND		0.48	0.10	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorobutanesulfonic acid	ND		0.48	0.17	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoropentanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorohexanesulfonic acid	ND		0.48	0.074	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoroheptanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorooctanesulfonic acid	ND		0.48	0.12	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorononanesulfonic acid	ND		0.48	0.088	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorodecanesulfonic acid	ND		0.48	0.19	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.48	0.10	ng/g		09/18/23 14:23	10/03/23 06:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.66	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluorooctanesulfonamide	ND		0.48	0.090	ng/g		09/18/23 14:23	10/03/23 06:00	1
NMeFOSA	ND		0.48	0.072	ng/g		09/18/23 14:23	10/03/23 06:00	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.48	0.098	ng/g		09/18/23 14:23	10/03/23 06:00	1
NMeFOSAA	ND		0.48	0.20	ng/g		09/18/23 14:23	10/03/23 06:00	1
NEtFOSAA	ND		0.48	0.16	ng/g		09/18/23 14:23	10/03/23 06:00	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	0.65	ng/g		09/18/23 14:23	10/03/23 06:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: X3-082423

Lab Sample ID: 410-141095-27

Date Collected: 08/24/23 00:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.8	1.8	ng/g		09/18/23 14:23	10/03/23 06:00	1
HFPO-DA	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 06:00	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.38	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.96	0.12	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoro(4-methoxybutanoic acid)	ND		0.96	0.19	ng/g		09/18/23 14:23	10/03/23 06:00	1
Perfluoro-3,6-dioxahexanoic acid	ND		0.96	0.37	ng/g		09/18/23 14:23	10/03/23 06:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 06:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:23	10/03/23 06:00	1
PFEESA	ND		0.96	0.22	ng/g		09/18/23 14:23	10/03/23 06:00	1
3:3 FTCA	ND	*- cn	2.4	0.69	ng/g		09/18/23 14:23	10/03/23 06:00	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:23	10/03/23 06:00	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 06:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	9.83	*5- cn	20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C5 PFPeA	61.6	cn	20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C5 PFHxA	102		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C4 PFHpA	114		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C8 PFOA	93.5		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C9 PFNA	108		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C6 PFDA	101		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C7 PFUnA	119		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C2-PFDoDA	112		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C2 PFTeDA	89.4		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C3 PFBS	106		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C3 PFHxS	113		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C8 PFOS	99.0		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C8 FOSA	91.0		20 - 150	09/18/23 14:23	10/03/23 06:00	1
d3-NMeFOSAA	96.7		20 - 150	09/18/23 14:23	10/03/23 06:00	1
d5-NEtFOSAA	104		20 - 150	09/18/23 14:23	10/03/23 06:00	1
M2-8:2 FTS	126		20 - 150	09/18/23 14:23	10/03/23 06:00	1
13C3 HFPO-DA	91.3		20 - 150	09/18/23 14:23	10/03/23 06:00	1
d7-N-MeFOSE-M	83.8		20 - 150	09/18/23 14:23	10/03/23 06:00	1
d9-N-EtFOSE-M	83.8		20 - 150	09/18/23 14:23	10/03/23 06:00	1
d5-NEtPFOSA	78.4		20 - 150	09/18/23 14:23	10/03/23 06:00	1
d3-NMePFOSA	82.6		20 - 150	09/18/23 14:23	10/03/23 06:00	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.3	ng/g		09/18/23 14:23	10/16/23 13:12	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:23	10/16/23 13:12	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	99.3	cn	20 - 150				09/18/23 14:23	10/16/23 13:12	10
M2-6:2 FTS	106		20 - 150				09/18/23 14:23	10/16/23 13:12	10

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg18-082423

Lab Sample ID: 410-141095-28

Date Collected: 08/24/23 13:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		1.9	0.35	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoropentanoic acid	0.63	J I	0.97	0.13	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorooctanoic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorododecanoic acid	ND		0.49	0.077	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorotridecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoropentanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorohexanesulfonic acid	ND		0.49	0.075	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorononanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		09/18/23 14:23	10/03/23 06:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.9	1.3	ng/g		09/18/23 14:23	10/03/23 06:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.66	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluorooctanesulfonamide	ND		0.49	0.091	ng/g		09/18/23 14:23	10/03/23 06:39	1
NMeFOSA	ND		0.49	0.073	ng/g		09/18/23 14:23	10/03/23 06:39	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.099	ng/g		09/18/23 14:23	10/03/23 06:39	1
NMeFOSAA	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 06:39	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.66	ng/g		09/18/23 14:23	10/03/23 06:39	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:23	10/03/23 06:39	1
HFPO-DA	ND		1.9	0.26	ng/g		09/18/23 14:23	10/03/23 06:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.39	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.97	0.12	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoro(4-methoxybutanoic acid)	ND		0.97	0.19	ng/g		09/18/23 14:23	10/03/23 06:39	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.97	0.38	ng/g		09/18/23 14:23	10/03/23 06:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 06:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:23	10/03/23 06:39	1
PFEESA	ND		0.97	0.22	ng/g		09/18/23 14:23	10/03/23 06:39	1
3:3 FTCA	ND	*- cn	2.4	0.70	ng/g		09/18/23 14:23	10/03/23 06:39	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:23	10/03/23 06:39	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 06:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	7.48	*5- cn	20 - 150				09/18/23 14:23	10/03/23 06:39	1
13C5 PFPeA	43.8	cn	20 - 150				09/18/23 14:23	10/03/23 06:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg18-082423

Lab Sample ID: 410-141095-28

Date Collected: 08/24/23 13:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	94.2		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C4 PFHpA	98.4		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C8 PFOA	97.1		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C9 PFNA	106		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C6 PFDA	115		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C7 PFUnA	111		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C2-PFDoDA	118		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C2 PFTeDA	95.1		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C3 PFBS	110		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C3 PFHxS	102		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C8 PFOS	100		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C8 FOSA	72.5		20 - 150	09/18/23 14:23	10/03/23 06:39	1
d3-NMeFOSAA	79.7		20 - 150	09/18/23 14:23	10/03/23 06:39	1
M2-6:2 FTS	86.9		20 - 150	09/18/23 14:23	10/03/23 06:39	1
M2-8:2 FTS	126		20 - 150	09/18/23 14:23	10/03/23 06:39	1
13C3 HFPO-DA	94.2		20 - 150	09/18/23 14:23	10/03/23 06:39	1
d7-N-MeFOSE-M	89.0		20 - 150	09/18/23 14:23	10/03/23 06:39	1
d9-N-EtFOSE-M	79.9		20 - 150	09/18/23 14:23	10/03/23 06:39	1
d5-NEtPFOSA	61.7		20 - 150	09/18/23 14:23	10/03/23 06:39	1
d3-NMePFOSA	88.3		20 - 150	09/18/23 14:23	10/03/23 06:39	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.4	ng/g		09/18/23 14:23	10/16/23 14:04	10
NEtFOSAA	ND		4.9	1.7	ng/g		09/18/23 14:23	10/16/23 14:04	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	49.5		20 - 150				09/18/23 14:23	10/16/23 14:04	10
M2-4:2 FTS	126	cn	20 - 150				09/18/23 14:23	10/16/23 14:04	10

Client Sample ID: Ag-Fr8-082423

Lab Sample ID: 410-141095-29

Date Collected: 08/24/23 13:15

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	0.20	0.060	ng/g		09/06/23 09:10	10/03/23 21:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	0.20	0.060	ng/g		09/06/23 09:10	10/03/23 21:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	0.30	0.060	ng/g		09/06/23 09:10	10/03/23 21:35	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	0.30	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
HFPO-DA	ND	cn	0.20	0.10	ng/g		09/06/23 09:10	10/03/23 21:35	1
NEtFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr8-082423

Lab Sample ID: 410-141095-29

Date Collected: 08/24/23 13:15

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:35	1
NMeFOSAA	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
NMeFOSA	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:35	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	ND	cn	0.20	0.050	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorobutanesulfonic acid	ND	cn	0.20	0.040	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorobutanoic acid	ND	cn	0.20	0.080	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorodecanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorodecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND	cn	0.20	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorododecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoroheptanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoroheptanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorohexanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorohexanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorononanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorononanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorooctanesulfonamide	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorooctanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorooctanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoropentanesulfonic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoropentanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorotetradecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluorotridecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoroundecanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
PFEESA	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
3:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
7:3 FTCA	ND	*+ cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
5:3 FTCA	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.060	0.020	ng/g		09/06/23 09:10	10/03/23 21:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	84	cn	10 - 200				09/06/23 09:10	10/03/23 21:35	1
M2-6:2 FTS	72	cn	10 - 200				09/06/23 09:10	10/03/23 21:35	1
M2-8:2 FTS	79	cn	15 - 200				09/06/23 09:10	10/03/23 21:35	1
13C2 PFTeDA	40	cn	10 - 169				09/06/23 09:10	10/03/23 21:35	1
13C3 HFPO-DA	34	cn	10 - 169				09/06/23 09:10	10/03/23 21:35	1
13C3 PFBS	108	cn	27 - 179				09/06/23 09:10	10/03/23 21:35	1
13C4 PFBA	42	cn	28 - 153				09/06/23 09:10	10/03/23 21:35	1
13C4 PFHpA	46	cn	10 - 178				09/06/23 09:10	10/03/23 21:35	1
13C5 PFPeA	82	cn	24 - 161				09/06/23 09:10	10/03/23 21:35	1
13C8 PFOA	49	cn	26 - 159				09/06/23 09:10	10/03/23 21:35	1
13C8 PFOS	50	cn	41 - 154				09/06/23 09:10	10/03/23 21:35	1
d3-NMeFOSAA	45	cn	10 - 178				09/06/23 09:10	10/03/23 21:35	1
d5-NEtFOSAA	53	cn	10 - 193				09/06/23 09:10	10/03/23 21:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr8-082423

Lab Sample ID: 410-141095-29

Date Collected: 08/24/23 13:15

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	38	cn	10 - 179	09/06/23 09:10	10/03/23 21:35	1
d9-N-EtFOSE-M	38	cn	10 - 185	09/06/23 09:10	10/03/23 21:35	1
13C3 PFHxS	51	cn	24 - 171	09/06/23 09:10	10/03/23 21:35	1
13C5 PFHxA	43	cn	10 - 174	09/06/23 09:10	10/03/23 21:35	1
13C6 PFDA	47	cn	26 - 161	09/06/23 09:10	10/03/23 21:35	1
13C7 PFUnA	49	cn	12 - 173	09/06/23 09:10	10/03/23 21:35	1
d3-NMePFOSA	35	cn	10 - 175	09/06/23 09:10	10/03/23 21:35	1
d5-NEtPFOSA	30	cn	10 - 180	09/06/23 09:10	10/03/23 21:35	1
13C8 FOSA	40	cn	14 - 163	09/06/23 09:10	10/03/23 21:35	1
13C2-PFDoDA	46	cn	11 - 166	09/06/23 09:10	10/03/23 21:35	1
13C9 PFNA	47	cn	26 - 165	09/06/23 09:10	10/03/23 21:35	1
13C-6:2 FTCA	28	cn	10 - 200	09/06/23 09:10	10/03/23 21:35	1

Client Sample ID: Ag-Vg19-082423

Lab Sample ID: 410-141095-30

Date Collected: 08/24/23 13:10

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	1.1	J	1.9	0.35	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoropentanoic acid	0.55	J I	0.97	0.13	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorooctanoic acid	0.20	J	0.49	0.20	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorododecanoic acid	ND		0.49	0.077	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorotridecanoic acid	ND		0.49	0.078	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoropentanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorohexanesulfonic acid	ND		0.49	0.075	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorononanesulfonic acid	ND		0.49	0.089	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluorooctanesulfonamide	ND		0.49	0.091	ng/g		09/18/23 14:23	10/03/23 06:52	1
NMeFOSA	ND		0.49	0.073	ng/g		09/18/23 14:23	10/03/23 06:52	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.099	ng/g		09/18/23 14:23	10/03/23 06:52	1
NMeFOSAA	ND		0.49	0.20	ng/g		09/18/23 14:23	10/03/23 06:52	1
NEtFOSAA	ND		0.49	0.17	ng/g		09/18/23 14:23	10/03/23 06:52	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.66	ng/g		09/18/23 14:23	10/03/23 06:52	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		09/18/23 14:23	10/03/23 06:52	1
HFPO-DA	ND		1.9	0.26	ng/g		09/18/23 14:23	10/03/23 06:52	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg19-082423

Lab Sample ID: 410-141095-30

Date Collected: 08/24/23 13:10

Matrix: Tissue

Date Received: 08/31/23 10:15

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.39	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoro-3-methoxypropanoic acid	ND	*- cn	0.97	0.12	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoro(4-methoxybutanoic acid)	ND		0.97	0.19	ng/g		09/18/23 14:23	10/03/23 06:52	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.97	0.38	ng/g		09/18/23 14:23	10/03/23 06:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.25	ng/g		09/18/23 14:23	10/03/23 06:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.24	ng/g		09/18/23 14:23	10/03/23 06:52	1
PFEESA	ND		0.97	0.22	ng/g		09/18/23 14:23	10/03/23 06:52	1
3:3 FTCA	ND	*- cn	2.4	0.70	ng/g		09/18/23 14:23	10/03/23 06:52	1
5:3 FTCA	ND		12	2.0	ng/g		09/18/23 14:23	10/03/23 06:52	1
7:3 FTCA	ND		12	2.9	ng/g		09/18/23 14:23	10/03/23 06:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	2.22	*5- cn	20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C5 PFPeA	18.3	*5- cn	20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C5 PFHxA	96.8		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C4 PFHpA	107		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C8 PFOA	96.8		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C9 PFNA	99.5		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C6 PFDA	114		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C7 PFUnA	115		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C2-PFDoDA	112		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C2 PFTeDA	85.0		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C3 PFBS	111		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C3 PFHxS	100		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C8 PFOS	97.5		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C8 FOSA	103		20 - 150	09/18/23 14:23	10/03/23 06:52	1
d3-NMeFOSAA	88.2		20 - 150	09/18/23 14:23	10/03/23 06:52	1
d5-NEtFOSAA	79.7		20 - 150	09/18/23 14:23	10/03/23 06:52	1
13C3 HFPO-DA	98.9		20 - 150	09/18/23 14:23	10/03/23 06:52	1
d7-N-MeFOSE-M	89.1		20 - 150	09/18/23 14:23	10/03/23 06:52	1
d9-N-EtFOSE-M	90.2		20 - 150	09/18/23 14:23	10/03/23 06:52	1
d5-NEtPFOSA	80.3		20 - 150	09/18/23 14:23	10/03/23 06:52	1
d3-NMePFOSA	86.5		20 - 150	09/18/23 14:23	10/03/23 06:52	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		19	5.4	ng/g		09/18/23 14:23	10/16/23 14:17	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29	13	ng/g		09/18/23 14:23	10/16/23 14:17	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	6.6	ng/g		09/18/23 14:23	10/16/23 14:17	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	110	cn	20 - 150				09/18/23 14:23	10/16/23 14:17	10
M2-6:2 FTS	103		20 - 150				09/18/23 14:23	10/16/23 14:17	10
M2-8:2 FTS	95.4		20 - 150				09/18/23 14:23	10/16/23 14:17	10

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-141095-28	Ag-Vg18-082423	7.48 *5- cn	43.8 cn	94.2	98.4	97.1	106	115	111
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	M262FTS (20-150)
410-141095-28	Ag-Vg18-082423	118	95.1	110	102	100	72.5	79.7	86.9
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)		
410-141095-28	Ag-Vg18-082423	126	94.2	89.0	79.9	61.7	88.3		
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFDODA = 13C2-PFDODA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
C8PFOS = 13C8 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOS = d3-NMeFOSAA									
M262FTS = M2-6:2 FTS									
M282FTS = M2-8:2 FTS									
HFPODA = 13C3 HFPO-DA									
NMFM = d7-N-MeFOSE-M									
NEFM = d9-N-EtFOSE-M									
d5NPFSA = d5-NEtPFOSA									
d3NMFSA = d3-NMePFOSA									

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	d5NEFOS (20-150)	M242FTS (20-150)
410-141095-28 - DL	Ag-Vg18-082423	49.5	126 cn
Surrogate Legend			
d5NEFOS = d5-NEtFOSAA			
M242FTS = M2-4:2 FTS			

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	M262FTS (20-150)
410-141095-3 - DL	Ag-Vg1-082523	129
Surrogate Legend		
M262FTS = M2-6:2 FTS		

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	M242FTS (20-150)
410-141095-8 - DL	Ag-Vg5-082423	129 cn
Surrogate Legend		
M242FTS = M2-4:2 FTS		

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-141095-4	Ag-Vg2-082523	8.07 *5- cn	51.9 cn	97.8	40.0	87.0	102	111	133
410-141095-6	Ag-Vg3-082423	9.99 *5- cn	65.0 cn	102	107	108	108	102	110
410-141095-7	Ag-Vg4-082423	98.5 cn	105 cn	109	114	99.8	104	99.9	109
410-141095-9 - DL	Ag-Vg6-082423								
410-141095-10	Ag-Vg7-082423	2.04 *5- cn	16.3 *5- cn	97.4	101	96.4	105	113	122
410-141095-13	X2-082423	11.0 *5- cn	76.0 cn	106	111	105	108	109	120
410-141095-17	Ag-Vg9-082423	98.4 cn	105 cn	101	106	111	106	114	118
410-141095-19	Ag-Vg11-082423	10.5 *5- cn	61.3 cn	99.8	113	101	106	109	124
410-141095-20 - DL	Ag-Vg12-082423								
410-141095-21	Ag-Vg13-082423	10.1 *5- cn	61.7 cn	98.8	124	106	107	117	124
410-141095-22	Ag-Vg14-082423	9.29 *5- cn	53.2 cn	102	110	94.5	107	116	114
410-141095-25	Ag-Vg16-082423	101 cn	94.1 cn	97.4	107	101	101	110	114
410-141095-26	Ag-Vg17-082423	10.8 *5- cn	68.7 cn	109	117	107	110	113	124
410-141095-27	X3-082423	9.83 *5- cn	61.6 cn	102	114	93.5	108	101	119
410-141095-30	Ag-Vg19-082423	2.22 *5- cn	18.3 *5- cn	96.8	107	96.8	99.5	114	115
Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-141095-4	Ag-Vg2-082523	127	107	146	104	109	104	95.9	113
410-141095-6	Ag-Vg3-082423	108	80.8	126	108	107	96.4	107	127
410-141095-7	Ag-Vg4-082423	109	94.6	110	104	95.1	88.0	94.6	102
410-141095-9 - DL	Ag-Vg6-082423								

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD _o DA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-141095-10	Ag-Vg7-082423	120	102	121	100	98.4	119	94.6	119
410-141095-13	X2-082423	108	101	122	105	104	112	88.2	124
410-141095-17	Ag-Vg9-082423	110	90.4	117	100	102	94.8	105	105
410-141095-19	Ag-Vg11-082423	117	96.5	119	111	108	99.4	106	96.9
410-141095-20 - DL	Ag-Vg12-082423								
410-141095-21	Ag-Vg13-082423	125	100	106	111	109	97.3	102	107
410-141095-22	Ag-Vg14-082423	119	97.9	107	107	103	101	101	108
410-141095-25	Ag-Vg16-082423	109	103	118	112	94.7	102	100	121
410-141095-26	Ag-Vg17-082423	126	94.9	112	103	103	98.0	105	110
410-141095-27	X3-082423	112	89.4	106	113	99.0	91.0	96.7	104
410-141095-30	Ag-Vg19-082423	112	85.0	111	100	97.5	103	88.2	79.7
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)		
410-141095-4	Ag-Vg2-082523		95.1	92.9	93.5	89.4	91.5		
410-141095-6	Ag-Vg3-082423	120	98.0	97.7	100	87.3	97.7		
410-141095-7	Ag-Vg4-082423		104	84.7	83.0	79.4	84.0		
410-141095-9 - DL	Ag-Vg6-082423	103							
410-141095-10	Ag-Vg7-082423	225 *5+ cn	95.7	95.4	94.8	87.3	44.5		
410-141095-13	X2-082423		105	100	98.1	91.1	70.9		
410-141095-17	Ag-Vg9-082423	115 cn	102	89.3	84.0	86.5	92.5		
410-141095-19	Ag-Vg11-082423		99.9	91.2	89.7	79.6	82.7		
410-141095-20 - DL	Ag-Vg12-082423	93.3							
410-141095-21	Ag-Vg13-082423	146	86.3	94.5	87.6	83.9	92.8		
410-141095-22	Ag-Vg14-082423		97.7	97.5	98.3	90.0	82.4		
410-141095-25	Ag-Vg16-082423		97.6	96.6	93.2	84.1	73.9		
410-141095-26	Ag-Vg17-082423		99.6	92.7	88.9	83.2	81.7		
410-141095-27	X3-082423	126	91.3	83.8	83.8	78.4	82.6		
410-141095-30	Ag-Vg19-082423		98.9	89.1	90.2	80.3	86.5		

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFD_oDA = 13C2-PFD_oDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: Taconic Inc
 Project/Site: Phase 2b RI
 NMFM = d7-N-MeFOSE-M
 NEFM = d9-N-EtFOSE-M
 d5NPFSA = d5-NEtPFOSA
 d3NMFSa = d3-NMePFOSA

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)
410-141095-6 - DL	Ag-Vg3-082423	125 cn	105
410-141095-10 - DL	Ag-Vg7-082423	107 cn	121
410-141095-17 - DL	Ag-Vg9-082423	121 cn	117
410-141095-21 - DL	Ag-Vg13-082423	122 cn	106
410-141095-27 - DL	X3-082423	99.3 cn	106
Surrogate Legend			
M242FTS = M2-4:2 FTS			
M262FTS = M2-6:2 FTS			

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-141095-11	Ag-Vg8-082423	33.1 cn	104 cn	99.0	105	98.2	100	111	120
410-141095-23	Ag-Vg15-082423	108 cn	106 cn	103	101	104	104	103	105
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-141095-11	Ag-Vg8-082423	120	98.2	110	104	102	103	101	109
410-141095-23	Ag-Vg15-082423	111	92.4	109	111	104	96.0	101	109
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSa (20-150)	
410-141095-11	Ag-Vg8-082423		144	99.2	90.2	96.8	82.4	84.9	
410-141095-23	Ag-Vg15-082423		144	104	100	93.5	87.2	97.7	
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFDODA = 13C2-PFDODA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
C8PFOS = 13C8 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOS = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-141095-1

Project/Site: Phase 2b RI

M262FTS = M2-6:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSa = d3-NMePFOSA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (20-150)	M282FTS (20-150)
410-141095-11 - DL	Ag-Vg8-082423	140 cn	132
410-141095-23 - DL	Ag-Vg15-082423	98.4 cn	82.1 cn

Surrogate Legend

M242FTS = M2-4:2 FTS

M282FTS = M2-8:2 FTS

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-141095-4 - DL	Ag-Vg2-082523	146 cn	138 cn	146 cn
410-141095-7 - DL	Ag-Vg4-082423	149 cn	105 cn	108 cn
410-141095-13 - DL	X2-082423	143 cn	104	117 cn
410-141095-19 - DL	Ag-Vg11-082423	104 cn	97.9	96.0
410-141095-22 - DL	Ag-Vg14-082423	140 cn	109	108
410-141095-25 - DL	Ag-Vg16-082423	137 cn	117	124
410-141095-26 - DL	Ag-Vg17-082423	111 cn	98.2	89.5
410-141095-30 - DL	Ag-Vg19-082423	110 cn	103	95.4

Surrogate Legend

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFDODA (20-150)
410-141095-18	Ag-Vg10-082423	15.8 *5- cn	135 cn	102	102	110	110	111	118

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
410-141095-18	Ag-Vg10-082423	98.1	82.5	111	106	97.7	109	111	258 *5+ cn

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSa (20-150)
410-141095-18	Ag-Vg10-082423	124	99.1	99.7	86.0	86.1

Surrogate Legend

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-141095-1

Project/Site: Phase 2b RI

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDODA = 13C2-PFDODA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C4PFHA (20-150)	M262FTS (20-150)	M282FTS (20-150)					
410-141095-18 - DL	Ag-Vg10-082423	82.7	134	104					
Surrogate Legend									
C4PFHA = 13C4 PFHpA									
M262FTS = M2-6:2 FTS									
M282FTS = M2-8:2 FTS									

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-141095-3	Ag-Vg1-082523	33.0 cn	86.8 cn	90.6	93.0	87.4	110	111	120
410-141095-8	Ag-Vg5-082423	8.80 *5- cn	54.0 cn	108	108	105	110	99.0	111
410-141095-8 MS	Ag-Vg5-082423	9.17 *5- cn	57.5 cn	106	111	104	106	106	110
410-141095-8 MSD	Ag-Vg5-082423	10.8 *5- cn	60.8 cn	102	98.6	102	108	110	111
410-141095-9	Ag-Vg6-082423	72.0 cn	72.7 cn	99.5	118	78.7	104	104	116
410-141095-20	Ag-Vg12-082423	12.8 *5- cn	74.4 cn	104	110	93.3	106	110	108
410-141095-21 MS	Ag-Vg13-082423	8.62 *5- cn	55.9 cn	99.2	114	96.3	107	114	121
410-141095-21 MSD	Ag-Vg13-082423	107 cn	112 cn	99.6	117	104	108	109	108
410-141095-30 DU	Ag-Vg19-082423	87.7 cn	75.9 cn	78.0	76.8	84.4	82.6	75.0	74.7
LCS 410-420715/2-A	Lab Control Sample	29.5	93.8	102	109	96.4	117	115	120
LCS 410-420723/2-A	Lab Control Sample	7.16 *5-	44.5	105	107	116	112	111	117
LLCS 410-420715/3-A	Lab Control Sample	9.35 *5-	51.4	104	105	106	102	119	125
LLCS 410-420723/3-A	Lab Control Sample	1.47 *5-	18.5 *5-	103	101	114	108	116	122

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
MB 410-420715/1-A	Method Blank	73.1	111	108	113	112	106	109	115
MB 410-420723/1-A	Method Blank	17.4 *5-	78.4	108	106	103	99.9	116	123
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-141095-3	Ag-Vg1-082523	117	105	109	97.7	98.0	115	110	96.0
410-141095-8	Ag-Vg5-082423	108	87.1	125	114	101	102	116	109
410-141095-8 MS	Ag-Vg5-082423	112	92.4	114	106	113	112	120	118
410-141095-8 MSD	Ag-Vg5-082423	116	99.2	125	113	106	102	118	115
410-141095-9	Ag-Vg6-082423	106	89.9	83.0	99.5	99.2	87.7	83.6	98.1
410-141095-20	Ag-Vg12-082423	120	92.5	123	110	108	98.7	97.8	104
410-141095-21 MS	Ag-Vg13-082423	114	82.5	112	107	102	93.6	102	103
410-141095-21 MSD	Ag-Vg13-082423	107	90.7	106	110	111	95.4	108	111
410-141095-30 DU	Ag-Vg19-082423	72.8	65.9	94.7	80.6	75.8	76.8	86.5	83.8
LCS 410-420715/2-A	Lab Control Sample	118	80.0	123	112	107	85.3	104	122
LCS 410-420723/2-A	Lab Control Sample	120	76.3	121	105	109	68.8	113	129
LLCS 410-420715/3-A	Lab Control Sample	129	80.8	126	112	102	78.1	101	109
LLCS 410-420723/3-A	Lab Control Sample	125	79.3	121	112	105	67.0	111	119
MB 410-420715/1-A	Method Blank	127	88.8	126	117	106	82.8	109	114
MB 410-420723/1-A	Method Blank	127	77.5	116	106	103	65.0	103	110
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
410-141095-3	Ag-Vg1-082523	231 *5+ cn		302 *5+ cn	92.8	93.3	87.5	73.6	29.1
410-141095-8	Ag-Vg5-082423		119	119 cn	102	94.2	86.7	92.3	93.9
410-141095-8 MS	Ag-Vg5-082423	130 cn	111	115	105	115	105	102	109
410-141095-8 MSD	Ag-Vg5-082423	144 cn	117	126	91.6	102	103	96.2	101
410-141095-9	Ag-Vg6-082423	154 *5+ cn	160 *5+ cn		76.2	86.7	88.0	76.4	84.7
410-141095-20	Ag-Vg12-082423	270 *5+ cn	239 *5+ cn		103	91.9	82.1	84.8	91.7
410-141095-21 MS	Ag-Vg13-082423	233 *5+ cn	196 *5+ cn	140	92.1	81.5	81.1	79.8	90.3
410-141095-21 MSD	Ag-Vg13-082423	229 *5+ cn	185 *5+ cn	152 *5+ cn	80.9	98.6	89.7	89.7	97.9
410-141095-30 DU	Ag-Vg19-082423	113 cn	114	89.1	80.7	76.6	73.3	72.4	75.6
LCS 410-420715/2-A	Lab Control Sample	160 *5+ cn	116	132	99.7	106	103	60.8	103
LCS 410-420723/2-A	Lab Control Sample	157 *5+ cn	120	145	107	99.0	96.7	54.0	103
LLCS 410-420715/3-A	Lab Control Sample	152 *5+ cn	132	148	102	104	101	53.3	94.2
LLCS 410-420723/3-A	Lab Control Sample	135	134	146	101	104	99.2	54.8	101
MB 410-420715/1-A	Method Blank	159 *5+ cn	124	122	107	104	96.6	56.7	94.2
MB 410-420723/1-A	Method Blank	156 *5+ cn	127	138	106	94.9	87.1	47.7	86.6

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-141095-1

Project/Site: Phase 2b RI

C6PFDA = 13C6 PFDA
 13C7PUA = 13C7 PFUnA
 PFDoDA = 13C2-PFDoDA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 C3PFHS = 13C3 PFHxS
 C8PFOS = 13C8 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
 NMFM = d7-N-MeFOSE-M
 NEFM = d9-N-EtFOSE-M
 d5NPFSA = d5-NEtPFOSA
 d3NMFSA = d3-NMePFOSA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Food & Feed

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M262FTS (10-200)	M282FTS (15-200)	PFTDA (10-169)	HFPODA (10-169)	C3PFBS (27-179)	PFBA (28-153)	C4PFHA (10-178)
410-141095-1	Ag-Fr1-082523	78 cn	86 cn	86 cn	48 cn	33 cn	78 cn	44 cn	41 cn
410-141095-2	Ag-Fr2-082523	61 cn	53 cn	38 cn	33 cn	31 cn	77 cn	36 cn	38 cn
410-141095-5	Ag-Fr3-082523	75	56	101	60	33	51	33	49
410-141095-12	Ag-Fr3-082423	70 cn	63 cn	65 cn	40 cn	29 cn	116 cn	40 cn	44 cn
410-141095-14	Ag-Fr4-082423	49	57	84	40	40	52	38	43
410-141095-15	Ag-Fr5-082423	80	87	88	42	39	67	42	47
410-141095-16	Ag-Fr6-082423	84	57	53	43	41	99	44	50
410-141095-24	Ag-Fr7-082423	83	61	92	29	38	63	42	48
410-141095-29	Ag-Fr8-082423	84 cn	72 cn	79 cn	40 cn	34 cn	108 cn	42 cn	46 cn
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (24-161)	C8PFOA (26-159)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)	NMFM (10-179)	NEFM (10-185)	C3PFHS (24-171)
410-141095-1	Ag-Fr1-082523	74 cn	49 cn	57 cn	47 cn	63 cn	51 cn	47 cn	48 cn
410-141095-2	Ag-Fr2-082523	58 cn	42 cn	46 cn	35 cn	41 cn	36 cn	33 cn	44 cn
410-141095-5	Ag-Fr3-082523	35	36	49	65	119	67	74	61
410-141095-12	Ag-Fr3-082423	89 cn	45 cn	54 cn	54 cn	58 cn	45 cn	44 cn	50 cn
410-141095-14	Ag-Fr4-082423	45	43	50	52	80	53	48	49
410-141095-15	Ag-Fr5-082423	51	48	55	54	67	47	45	55
410-141095-16	Ag-Fr6-082423	74	52	58	48	60	46	45	61
410-141095-24	Ag-Fr7-082423	52	48	54	66	92	52	48	54
410-141095-29	Ag-Fr8-082423	82 cn	49 cn	50 cn	45 cn	53 cn	38 cn	38 cn	51 cn
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C5PHA (10-174)	C6PFDA (26-161)	13C7PUA (12-173)	d3NMFSA (10-175)	d5NPFSA (10-180)	PFOSA (14-163)	PFDoDA (11-166)	C9PFNA (26-165)
410-141095-1	Ag-Fr1-082523	47 cn	49 cn	52 cn	48 cn	39 cn	47 cn	50 cn	57 cn
410-141095-2	Ag-Fr2-082523	36 cn	40 cn	39 cn	32 cn	29 cn	39 cn	36 cn	43 cn
410-141095-5	Ag-Fr3-082523	40	41	66	68	55	59	57	42
410-141095-12	Ag-Fr3-082423	42 cn	45 cn	49 cn	40 cn	38 cn	40 cn	47 cn	49 cn
410-141095-14	Ag-Fr4-082423	40	43	55	54	42	48	51	44
410-141095-15	Ag-Fr5-082423	36	47	47	43	39	48	44	48
410-141095-16	Ag-Fr6-082423	48	51	53	41	36	48	52	49

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Food & Feed

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C5PHA (10-174)	C6PFDA (26-161)	13C7PUA (12-173)	d3NMFSA (10-175)	d5NPFSA (10-180)	PFOSA (14-163)	PFDODA (11-166)	C9PFNA (26-165)
410-141095-24	Ag-Fr7-082423	47	47	56	51	41	47	56	48
410-141095-29	Ag-Fr8-082423	43 cn	47 cn	49 cn	35 cn	30 cn	40 cn	46 cn	47 cn
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	MFHEA (10-200)							
410-141095-1	Ag-Fr1-082523	25 cn							
410-141095-2	Ag-Fr2-082523	25 cn							
410-141095-5	Ag-Fr3-082523	12							
410-141095-12	Ag-Fr3-082423	25 cn							
410-141095-14	Ag-Fr4-082423	24							
410-141095-15	Ag-Fr5-082423	30							
410-141095-16	Ag-Fr6-082423	32							
410-141095-24	Ag-Fr7-082423	25							
410-141095-29	Ag-Fr8-082423	28 cn							
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									
C8PFOA = 13C8 PFOA									
C8PFOS = 13C8 PFOS									
d3NMFOS = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									
NMFM = d7-N-MeFOSE-M									
NEFM = d9-N-EtFOSE-M									
C3PFHS = 13C3 PFHxS									
13C5PHA = 13C5 PFHxA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
d3NMFSA = d3-NMePFOSA									
d5NPFSA = d5-NEtPFOSA									
PFOSA = 13C8 FOSA									
PFDODA = 13C2-PFDODA									
C9PFNA = 13C9 PFNA									
MFHEA = 13C-6:2 FTCA									

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Food and Feed

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M262FTS (10-200)	M282FTS (15-200)	PFTDA (10-169)	HFPODA (10-169)	C3PFBS (27-179)	PFBA (28-153)	C4PFHA (10-178)
LCS 410-416373/2-B	Lab Control Sample	44	51	45	49	58	67	51	56
LCSD 410-416373/3-B	Lab Control Sample Dup	59	55	54	56	56	78	57	66
MB 410-416373/1-B	Method Blank	61	64	68	56	64	79	61	69

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Food and Feed

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (24-161)	C8PFOA (26-159)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)	NMFM (10-179)	NEFM (10-185)	C3PFHS (24-171)
LCS 410-416373/2-B	Lab Control Sample	53	55	65	51	62	53	51	64
LCSD 410-416373/3-B	Lab Control Sample Dup	61	68	77	70	78	66	63	80
MB 410-416373/1-B	Method Blank	63	71	80	73	85	64	61	83
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C5PHA (10-174)	C6PFDA (26-161)	13C7PUA (12-173)	d3NMFSA (10-175)	d5NPFSA (10-180)	PFOSA (14-163)	PFDODA (11-166)	C9PFNA (26-165)
LCS 410-416373/2-B	Lab Control Sample	52	53	54	39	37	60	50	54
LCSD 410-416373/3-B	Lab Control Sample Dup	68	66	64	62	57	77	61	65
MB 410-416373/1-B	Method Blank	70	67	65	59	58	82	61	68
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	MFHEA (10-200)							
LCS 410-416373/2-B	Lab Control Sample	36							
LCSD 410-416373/3-B	Lab Control Sample Dup	46							
MB 410-416373/1-B	Method Blank	47							
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									
C8PFOA = 13C8 PFOA									
C8PFOS = 13C8 PFOS									
d3NMFOS = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									
NMFM = d7-N-MeFOSE-M									
NEFM = d9-N-EtFOSE-M									
C3PFHS = 13C3 PFHxS									
13C5PHA = 13C5 PFHxA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
d3NMFSA = d3-NMePFOSA									
d5NPFSA = d5-NEtPFOSA									
PFOSA = 13C8 FOSA									
PFDODA = 13C2-PFDODA									
C9PFNA = 13C9 PFNA									
MFHEA = 13C-6:2 FTCA									

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-420715/1-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 420715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorotetradecanoic acid	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:23	10/03/23 03:11	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.56	ng/g		09/18/23 14:23	10/03/23 03:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		09/18/23 14:23	10/03/23 03:11	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		09/18/23 14:23	10/03/23 03:11	1
NMeFOSA	ND		0.50	0.075	ng/g		09/18/23 14:23	10/03/23 03:11	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:23	10/03/23 03:11	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:23	10/03/23 03:11	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:23	10/03/23 03:11	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		09/18/23 14:23	10/03/23 03:11	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		09/18/23 14:23	10/03/23 03:11	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 03:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoro-3-methoxypropanoic acid	ND		1.0	0.12	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		09/18/23 14:23	10/03/23 03:11	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		09/18/23 14:23	10/03/23 03:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:23	10/03/23 03:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:23	10/03/23 03:11	1
PFEESA	ND		1.0	0.23	ng/g		09/18/23 14:23	10/03/23 03:11	1
3:3 FTCA	ND		2.5	0.72	ng/g		09/18/23 14:23	10/03/23 03:11	1
5:3 FTCA	ND		13	2.1	ng/g		09/18/23 14:23	10/03/23 03:11	1
7:3 FTCA	ND		13	3.0	ng/g		09/18/23 14:23	10/03/23 03:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	73.1		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C5 PFPeA	111		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C5 PFHxA	108		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C4 PFHpA	113		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C8 PFOA	112		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C9 PFNA	106		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C6 PFDA	109		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C7 PFUnA	115		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C2-PFDoDA	127		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C2 PFTeDA	88.8		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C3 PFBS	126		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C3 PFHxS	117		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C8 PFOS	106		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C8 FOSA	82.8		20 - 150	09/18/23 14:23	10/03/23 03:11	1
d3-NMeFOSAA	109		20 - 150	09/18/23 14:23	10/03/23 03:11	1
d5-NEtFOSAA	114		20 - 150	09/18/23 14:23	10/03/23 03:11	1
M2-4:2 FTS	159	*5+	20 - 150	09/18/23 14:23	10/03/23 03:11	1
M2-6:2 FTS	124		20 - 150	09/18/23 14:23	10/03/23 03:11	1
M2-8:2 FTS	122		20 - 150	09/18/23 14:23	10/03/23 03:11	1
13C3 HFPO-DA	107		20 - 150	09/18/23 14:23	10/03/23 03:11	1
d7-N-MeFOSE-M	104		20 - 150	09/18/23 14:23	10/03/23 03:11	1
d9-N-EtFOSE-M	96.6		20 - 150	09/18/23 14:23	10/03/23 03:11	1
d5-NEtPFOSA	56.7		20 - 150	09/18/23 14:23	10/03/23 03:11	1
d3-NMePFOSA	94.2		20 - 150	09/18/23 14:23	10/03/23 03:11	1

Lab Sample ID: LCS 410-420715/2-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid	25.0	20.9		ng/g		83	40 - 150
Perfluoropentanoic acid	12.5	10.6		ng/g		85	40 - 150
Perfluorohexanoic acid	6.26	5.20		ng/g		83	40 - 150
Perfluoroheptanoic acid	6.26	5.24		ng/g		84	40 - 150
Perfluorooctanoic acid	6.26	4.91		ng/g		78	40 - 150
Perfluorononanoic acid	6.26	5.26		ng/g		84	40 - 150
Perfluorodecanoic acid	6.26	5.44		ng/g		87	40 - 150
Perfluoroundecanoic acid	6.26	5.19		ng/g		83	40 - 150
Perfluorododecanoic acid	6.26	5.67		ng/g		91	40 - 150
Perfluorotridecanoic acid	6.26	5.66		ng/g		90	40 - 150
Perfluorotetradecanoic acid	6.26	5.18		ng/g		83	40 - 150
Perfluorobutanesulfonic acid	5.55	4.23		ng/g		76	40 - 150
Perfluoropentanesulfonic acid	5.89	4.61		ng/g		78	40 - 150
Perfluorohexanesulfonic acid	5.72	4.77		ng/g		83	40 - 150
Perfluoroheptanesulfonic acid	5.97	4.61		ng/g		77	40 - 150
Perfluorooctanesulfonic acid	5.81	4.58		ng/g		79	40 - 150
Perfluorononanesulfonic acid	6.02	4.64		ng/g		77	40 - 150
Perfluorodecanesulfonic acid	6.04	3.69		ng/g		61	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	6.07	3.12		ng/g		51	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	23.5	19.9		ng/g		85	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-420715/2-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	23.8	23.2		ng/g		98	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	24.0	20.5		ng/g		85	40 - 150
Perfluorooctanesulfonamide	6.26	5.42		ng/g		87	40 - 150
NMeFOSA	6.26	6.81		ng/g		109	40 - 150
N-ethylperfluoro-1-octanesulfonamide	6.26	7.74		ng/g		124	40 - 150
NMeFOSAA	6.26	6.05		ng/g		97	40 - 150
NEtFOSAA	6.26	5.36		ng/g		86	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	62.6	67.8		ng/g		108	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	62.6	65.0		ng/g		104	40 - 150
HFPO-DA	25.0	22.2		ng/g		89	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	24.1		ng/g		102	40 - 150
Perfluoro-3-methoxypropanoic acid	12.5	6.14		ng/g		49	40 - 150
Perfluoro(4-methoxybutanoic acid)	12.5	11.8		ng/g		94	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	12.5	13.0		ng/g		104	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	23.4	20.2		ng/g		86	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	23.6	19.0		ng/g		81	40 - 150
PFEESA	11.1	9.66		ng/g		87	40 - 150
3:3 FTCA	31.3	19.3		ng/g		62	40 - 150
5:3 FTCA	156	149		ng/g		95	40 - 150
7:3 FTCA	156	164		ng/g		105	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	29.5		20 - 150
13C5 PFPeA	93.8		20 - 150
13C5 PFHxA	102		20 - 150
13C4 PFHpA	109		20 - 150
13C8 PFOA	96.4		20 - 150
13C9 PFNA	117		20 - 150
13C6 PFDA	115		20 - 150
13C7 PFUnA	120		20 - 150
13C2-PFDoDA	118		20 - 150
13C2 PFTeDA	80.0		20 - 150
13C3 PFBS	123		20 - 150
13C3 PFHxS	112		20 - 150
13C8 PFOS	107		20 - 150
13C8 FOSA	85.3		20 - 150
d3-NMeFOSAA	104		20 - 150
d5-NEtFOSAA	122		20 - 150
M2-4:2 FTS	160	*5+	20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-420715/2-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420715

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	116		20 - 150
M2-8:2 FTS	132		20 - 150
13C3 HFPO-DA	99.7		20 - 150
d7-N-MeFOSE-M	106		20 - 150
d9-N-EtFOSE-M	103		20 - 150
d5-NEtPFOSA	60.8		20 - 150
d3-NMePFOSA	103		20 - 150

Lab Sample ID: LLCS 410-420715/3-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	4.00	3.10		ng/g		77	40 - 150
Perfluoropentanoic acid	2.00	1.71		ng/g		85	40 - 150
Perfluorohexanoic acid	1.00	0.875		ng/g		87	40 - 150
Perfluoroheptanoic acid	1.00	0.914		ng/g		91	40 - 150
Perfluorooctanoic acid	1.00	0.857		ng/g		86	40 - 150
Perfluorononanoic acid	1.00	0.897		ng/g		90	40 - 150
Perfluorodecanoic acid	1.00	0.895		ng/g		90	40 - 150
Perfluoroundecanoic acid	1.00	0.897		ng/g		90	40 - 150
Perfluorododecanoic acid	1.00	0.906		ng/g		91	40 - 150
Perfluorotridecanoic acid	1.00	0.894		ng/g		89	40 - 150
Perfluorotetradecanoic acid	1.00	0.926		ng/g		93	40 - 150
Perfluorobutanesulfonic acid	0.887	0.644		ng/g		73	40 - 150
Perfluoropentanesulfonic acid	0.941	0.752		ng/g		80	40 - 150
Perfluorohexanesulfonic acid	0.914	0.771		ng/g		84	40 - 150
Perfluoroheptanesulfonic acid	0.953	0.755		ng/g		79	40 - 150
Perfluorooctanesulfonic acid	0.928	0.863		ng/g		93	40 - 150
Perfluorononanesulfonic acid	0.962	0.738		ng/g		77	40 - 150
Perfluorodecanesulfonic acid	0.965	0.612		ng/g		63	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.970	0.470	J	ng/g		48	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.75	3.21		ng/g		85	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.80	3.09		ng/g		81	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.84	2.91		ng/g		76	40 - 150
Perfluorooctanesulfonamide	1.00	0.865		ng/g		86	40 - 150
NMeFOSA	1.00	0.926		ng/g		93	40 - 150
N-ethylperfluoro-1-octanesulfonamide	1.00	0.998		ng/g		100	40 - 150
NMeFOSAA	1.00	0.898		ng/g		90	40 - 150
NEtFOSAA	1.00	0.940		ng/g		94	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	10.0	8.12		ng/g		81	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	10.0	7.75		ng/g		77	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-420715/3-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	4.00	3.52		ng/g		88	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.93	I	ng/g		104	40 - 150
Perfluoro-3-methoxypropanoic acid	2.00	0.533	J *-	ng/g		27	40 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	2.31		ng/g		115	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.65		ng/g		82	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	3.25		ng/g		87	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.19		ng/g		84	40 - 150
PFEESA	1.78	1.47		ng/g		82	40 - 150
3:3 FTCA	5.01	1.82	J *-	ng/g		36	40 - 150
5:3 FTCA	25.0	22.5		ng/g		90	40 - 150
7:3 FTCA	25.0	24.9		ng/g		99	40 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	9.35	*5-	20 - 150
13C5 PFPeA	51.4		20 - 150
13C5 PFHxA	104		20 - 150
13C4 PFHpA	105		20 - 150
13C8 PFOA	106		20 - 150
13C9 PFNA	102		20 - 150
13C6 PFDA	119		20 - 150
13C7 PFUnA	125		20 - 150
13C2-PFDoDA	129		20 - 150
13C2 PFTeDA	80.8		20 - 150
13C3 PFBS	126		20 - 150
13C3 PFHxS	112		20 - 150
13C8 PFOS	102		20 - 150
13C8 FOSA	78.1		20 - 150
d3-NMeFOSAA	101		20 - 150
d5-NEtFOSAA	109		20 - 150
M2-4:2 FTS	152	*5+	20 - 150
M2-6:2 FTS	132		20 - 150
M2-8:2 FTS	148		20 - 150
13C3 HFPO-DA	102		20 - 150
d7-N-MeFOSE-M	104		20 - 150
d9-N-EtFOSE-M	101		20 - 150
d5-NEtPFOSA	53.3		20 - 150
d3-NMePFOSA	94.2		20 - 150

Lab Sample ID: 410-141095-21 MS

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg13-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND		23.8	18.4		ng/g		77	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-21 MS

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg13-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid	ND		11.9	9.85		ng/g		83	40 - 150
Perfluorohexanoic acid	ND		5.96	5.43		ng/g		91	40 - 150
Perfluoroheptanoic acid	ND		5.96	5.26		ng/g		88	40 - 150
Perfluorooctanoic acid	ND		5.96	4.61		ng/g		77	40 - 150
Perfluorononanoic acid	ND		5.96	5.27		ng/g		88	40 - 150
Perfluorodecanoic acid	ND		5.96	5.20		ng/g		87	40 - 150
Perfluoroundecanoic acid	ND		5.96	4.96		ng/g		83	40 - 150
Perfluorododecanoic acid	ND		5.96	5.49		ng/g		92	40 - 150
Perfluorotridecanoic acid	ND		5.96	4.94		ng/g		83	40 - 150
Perfluorotetradecanoic acid	ND		5.96	5.03		ng/g		84	40 - 150
Perfluorobutanesulfonic acid	ND		5.29	4.17		ng/g		79	40 - 150
Perfluoropentanesulfonic acid	ND		5.61	4.82		ng/g		86	40 - 150
Perfluorohexanesulfonic acid	ND		5.45	4.83		ng/g		89	40 - 150
Perfluoroheptanesulfonic acid	ND		5.68	4.90		ng/g		86	40 - 150
Perfluorooctanesulfonic acid	ND		5.53	4.39		ng/g		79	40 - 150
Perfluorononanesulfonic acid	ND		5.74	4.47		ng/g		78	40 - 150
Perfluorodecanesulfonic acid	ND		5.75	4.22		ng/g		73	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND		5.78	3.05		ng/g		53	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		22.4	19.6		ng/g		88	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		22.7	18.5		ng/g		82	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		22.9	20.4		ng/g		89	40 - 150
Perfluorooctanesulfonamide	ND		5.96	5.20		ng/g		87	40 - 150
NMeFOSA	ND		5.96	6.50		ng/g		109	40 - 150
N-ethylperfluoro-1-octanesulfonamide	ND		5.96	6.70		ng/g		112	40 - 150
NMeFOSAA	ND		5.96	5.31		ng/g		89	40 - 150
NEtFOSAA	ND		5.96	5.58		ng/g		94	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		59.6	66.9		ng/g		112	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		59.6	61.7		ng/g		103	40 - 150
HFPO-DA	ND		23.8	20.7		ng/g		87	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		22.5	19.4		ng/g		86	40 - 150
Perfluoro-3-methoxypropanoic acid	ND	F2 F1 *-cn	11.9	3.26	F1 cn	ng/g		27	40 - 150
Perfluoro(4-methoxybutanoic acid)	ND	F2	11.9	16.1		ng/g		135	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND	F2	11.9	12.3		ng/g		103	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		22.3	25.2		ng/g		113	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		22.5	20.1		ng/g		89	40 - 150
PFEESA	ND		10.6	10.8		ng/g		102	40 - 150
3:3 FTCA	ND	F2 *-cn	29.8	12.9	cn	ng/g		43	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-21 MS

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg13-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	ND		149	182		ng/g		122	40 - 150
7:3 FTCA	ND		149	190		ng/g		128	40 - 150
Isotope Dilution									
	%Recovery	MS Qualifier	Limits						
13C4 PFBA	8.62	*5- cn	20 - 150						
13C5 PFPeA	55.9	cn	20 - 150						
13C5 PFHxA	99.2		20 - 150						
13C4 PFHpA	114		20 - 150						
13C8 PFOA	96.3		20 - 150						
13C9 PFNA	107		20 - 150						
13C6 PFDA	114		20 - 150						
13C7 PFUnA	121		20 - 150						
13C2-PFDoDA	114		20 - 150						
13C2 PFTeDA	82.5		20 - 150						
13C3 PFBS	112		20 - 150						
13C3 PFHxS	107		20 - 150						
13C8 PFOS	102		20 - 150						
13C8 FOSA	93.6		20 - 150						
d3-NMeFOSAA	102		20 - 150						
d5-NEtFOSAA	103		20 - 150						
M2-4:2 FTS	233	*5+ cn	20 - 150						
M2-6:2 FTS	196	*5+	20 - 150						
M2-8:2 FTS	140		20 - 150						
13C3 HFPO-DA	92.1		20 - 150						
d7-N-MeFOSE-M	81.5		20 - 150						
d9-N-EtFOSE-M	81.1		20 - 150						
d5-NEtPFOSA	79.8		20 - 150						
d3-NMePFOSA	90.3		20 - 150						

Lab Sample ID: 410-141095-21 MSD

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg13-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorobutanoic acid	ND		24.3	20.0		ng/g		82	40 - 150	8	30
Perfluoropentanoic acid	ND		12.2	10.2		ng/g		84	40 - 150	4	30
Perfluorohexanoic acid	ND		6.08	5.13		ng/g		84	40 - 150	6	30
Perfluoroheptanoic acid	ND		6.08	5.28		ng/g		87	40 - 150	0	30
Perfluorooctanoic acid	ND		6.08	4.88		ng/g		80	40 - 150	6	30
Perfluorononanoic acid	ND		6.08	5.32		ng/g		87	40 - 150	1	30
Perfluorodecanoic acid	ND		6.08	5.47		ng/g		90	40 - 150	5	30
Perfluoroundecanoic acid	ND		6.08	5.21		ng/g		86	40 - 150	5	30
Perfluorododecanoic acid	ND		6.08	5.58		ng/g		92	40 - 150	2	30
Perfluorotridecanoic acid	ND		6.08	5.06		ng/g		83	40 - 150	2	30
Perfluorotetradecanoic acid	ND		6.08	5.38		ng/g		88	40 - 150	7	30
Perfluorobutanesulfonic acid	ND		5.39	4.44		ng/g		82	40 - 150	6	30
Perfluoropentanesulfonic acid	ND		5.72	4.63		ng/g		81	40 - 150	4	30
Perfluorohexanesulfonic acid	ND		5.55	4.62		ng/g		83	40 - 150	4	30
Perfluoroheptanesulfonic acid	ND		5.79	4.75		ng/g		82	40 - 150	3	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-21 MSD

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg13-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	ND		5.64	4.47		ng/g		79	40 - 150	2	30
Perfluorononanesulfonic acid	ND		5.85	4.61		ng/g		79	40 - 150	3	30
Perfluorodecanesulfonic acid	ND		5.86	4.20		ng/g		72	40 - 150	0	30
Perfluorododecanesulfonic acid (PFDoS)	ND		5.90	3.80		ng/g		65	40 - 150	22	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		22.8	18.9		ng/g		83	40 - 150	3	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		23.1	17.2		ng/g		75	40 - 150	7	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		23.3	17.6		ng/g		76	40 - 150	15	30
Perfluorooctanesulfonamide	ND		6.08	5.43		ng/g		89	40 - 150	4	30
NMeFOSA	ND		6.08	6.64		ng/g		109	40 - 150	2	30
N-ethylperfluoro-1-octanesulfonamide	ND		6.08	6.70		ng/g		110	40 - 150	0	30
NMeFOSAA	ND		6.08	5.65		ng/g		93	40 - 150	6	30
NEtFOSAA	ND		6.08	5.37		ng/g		88	40 - 150	4	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		60.8	66.4		ng/g		109	40 - 150	1	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		60.8	70.6		ng/g		116	40 - 150	13	30
HFPO-DA	ND		24.3	24.1		ng/g		99	40 - 150	15	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		22.9	21.5		ng/g		94	40 - 150	10	30
Perfluoro-3-methoxypropanoic acid	ND	F2 F1 *-cn	12.2	11.2	F2 cn	ng/g		92	40 - 150	110	30
Perfluoro(4-methoxybutanoic acid)	ND	F2	12.2	11.6	F2	ng/g		96	40 - 150	32	30
Perfluoro-3,6-dioxaheptanoic acid	ND	F2	12.2	8.38	F2	ng/g		69	40 - 150	38	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		22.7	26.4		ng/g		116	40 - 150	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		22.9	24.0		ng/g		105	40 - 150	18	30
PFEESA	ND		10.8	10.2		ng/g		94	40 - 150	6	30
3:3 FTCA	ND	F2 *-cn	30.4	33.4	F2 cn	ng/g		110	40 - 150	88	30
5:3 FTCA	ND		152	167		ng/g		110	40 - 150	9	30
7:3 FTCA	ND		152	184		ng/g		121	40 - 150	3	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	107	cn	20 - 150
13C5 PFPeA	112	cn	20 - 150
13C5 PFHxA	99.6		20 - 150
13C4 PFHpA	117		20 - 150
13C8 PFOA	104		20 - 150
13C9 PFNA	108		20 - 150
13C6 PFDA	109		20 - 150
13C7 PFUnA	108		20 - 150
13C2-PFDoDA	107		20 - 150
13C2 PFTeDA	90.7		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-21 MSD

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg13-082423

Prep Type: Total/NA

Prep Batch: 420715

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 PFBS	106		20 - 150
13C3 PFHxS	110		20 - 150
13C8 PFOS	111		20 - 150
13C8 FOSA	95.4		20 - 150
d3-NMeFOSAA	108		20 - 150
d5-NEtFOSAA	111		20 - 150
M2-4:2 FTS	229	*5+ cn	20 - 150
M2-6:2 FTS	185	*5+	20 - 150
M2-8:2 FTS	152	*5+	20 - 150
13C3 HFPO-DA	80.9		20 - 150
d7-N-MeFOSE-M	98.6		20 - 150
d9-N-EtFOSE-M	89.7		20 - 150
d5-NEtPFOSA	89.7		20 - 150
d3-NMePFOSA	97.9		20 - 150

Lab Sample ID: 410-141095-30 DU

Matrix: Tissue

Analysis Batch: 431781

Client Sample ID: Ag-Vg19-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Sample		DU DU		Unit	D	RPD RPD	
	Result	Qualifier	Result	Qualifier			Limit	Limit
Perfluorobutanoic acid	ND		ND		ng/g		NC	30
Perfluoropentanoic acid	ND		ND		ng/g		NC	30
Perfluorohexanoic acid	ND		ND		ng/g		NC	30
Perfluoroheptanoic acid	ND		ND		ng/g		NC	30
Perfluorooctanoic acid	ND		ND		ng/g		NC	30
Perfluorononanoic acid	ND		ND		ng/g		NC	30
Perfluorodecanoic acid	ND		ND		ng/g		NC	30
Perfluoroundecanoic acid	ND		ND		ng/g		NC	30
Perfluorododecanoic acid	ND		ND		ng/g		NC	30
Perfluorotridecanoic acid	ND		ND		ng/g		NC	30
Perfluorotetradecanoic acid	ND		ND		ng/g		NC	30
Perfluorobutanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoropentanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorohexanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoroheptanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorooctanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorononanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorodecanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorododecanesulfonic acid	ND		ND		ng/g		NC	30
(PFDoS)								
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		ND		ng/g		NC	30
Perfluorooctanesulfonamide	ND		ND		ng/g		NC	30
NMeFOSA	ND		ND		ng/g		NC	30
N-ethylperfluoro-1-octanesulfonamide	ND		ND		ng/g		NC	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-30 DU

Matrix: Tissue

Analysis Batch: 431781

Client Sample ID: Ag-Vg19-082423

Prep Type: Total/NA

Prep Batch: 420715

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
NMeFOSAA	ND		ND		ng/g		NC	30
NEtFOSAA	ND		ND		ng/g		NC	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		ND		ng/g		NC	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		ND		ng/g		NC	30
HFPO-DA	ND		ND		ng/g		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		ND		ng/g		NC	30
Perfluoro-3-methoxypropanoic acid	ND	*- cn	ND	*- cn	ng/g		NC	30
Perfluoro(4-methoxybutanoic acid)	ND		ND		ng/g		NC	30
Perfluoro-3,6-dioxaheptanoic acid	ND		ND		ng/g		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		ND		ng/g		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		ND		ng/g		NC	30
PFEESA	ND		ND		ng/g		NC	30
3:3 FTCA	ND	*- cn	ND	*- cn	ng/g		NC	30
5:3 FTCA	ND		ND		ng/g		NC	30
7:3 FTCA	ND		ND		ng/g		NC	30

Isotope Dilution	%Recovery	DU Qualifier	Limits
13C4 PFBA	87.7	cn	20 - 150
13C5 PFPeA	75.9	cn	20 - 150
13C5 PFHxA	78.0		20 - 150
13C4 PFHpA	76.8		20 - 150
13C8 PFOA	84.4		20 - 150
13C9 PFNA	82.6		20 - 150
13C6 PFDA	75.0		20 - 150
13C7 PFUnA	74.7		20 - 150
13C2-PFDoDA	72.8		20 - 150
13C2 PFTeDA	65.9		20 - 150
13C3 PFBS	94.7		20 - 150
13C3 PFHxS	80.6		20 - 150
13C8 PFOS	75.8		20 - 150
13C8 FOSA	76.8		20 - 150
d3-NMeFOSAA	86.5		20 - 150
d5-NEtFOSAA	83.8		20 - 150
M2-4:2 FTS	113	cn	20 - 150
M2-6:2 FTS	114		20 - 150
M2-8:2 FTS	89.1		20 - 150
13C3 HFPO-DA	80.7		20 - 150
d7-N-MeFOSE-M	76.6		20 - 150
d9-N-EtFOSE-M	73.3		20 - 150
d5-NEtPFOSA	72.4		20 - 150
d3-NMePFOSA	75.6		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-420723/1-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 420723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorotetradecanoic acid	ND		0.50	0.11	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		09/18/23 14:41	10/02/23 23:17	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.56	ng/g		09/18/23 14:41	10/02/23 23:17	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		09/18/23 14:41	10/02/23 23:17	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		09/18/23 14:41	10/02/23 23:17	1
NMeFOSA	ND		0.50	0.075	ng/g		09/18/23 14:41	10/02/23 23:17	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		09/18/23 14:41	10/02/23 23:17	1
NMeFOSAA	ND		0.50	0.21	ng/g		09/18/23 14:41	10/02/23 23:17	1
NEtFOSAA	ND		0.50	0.17	ng/g		09/18/23 14:41	10/02/23 23:17	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		09/18/23 14:41	10/02/23 23:17	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		09/18/23 14:41	10/02/23 23:17	1
HFPO-DA	ND		2.0	0.26	ng/g		09/18/23 14:41	10/02/23 23:17	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoro-3-methoxypropanoic acid	ND		1.0	0.12	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		09/18/23 14:41	10/02/23 23:17	1
Perfluoro-3,6-dioxahexanoic acid	ND		1.0	0.39	ng/g		09/18/23 14:41	10/02/23 23:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		09/18/23 14:41	10/02/23 23:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		09/18/23 14:41	10/02/23 23:17	1
PFEESA	ND		1.0	0.23	ng/g		09/18/23 14:41	10/02/23 23:17	1
3:3 FTCA	ND		2.5	0.72	ng/g		09/18/23 14:41	10/02/23 23:17	1
5:3 FTCA	ND		13	2.1	ng/g		09/18/23 14:41	10/02/23 23:17	1
7:3 FTCA	ND		13	3.0	ng/g		09/18/23 14:41	10/02/23 23:17	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	17.4	*5-	20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C5 PFPeA	78.4		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C5 PFHxA	108		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C4 PFHpA	106		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C8 PFOA	103		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C9 PFNA	99.9		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C6 PFDA	116		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C7 PFUnA	123		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C2-PFDoDA	127		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C2 PFTeDA	77.5		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C3 PFBS	116		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C3 PFHxS	106		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C8 PFOS	103		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C8 FOSA	65.0		20 - 150	09/18/23 14:41	10/02/23 23:17	1
d3-NMeFOSAA	103		20 - 150	09/18/23 14:41	10/02/23 23:17	1
d5-NEtFOSAA	110		20 - 150	09/18/23 14:41	10/02/23 23:17	1
M2-4:2 FTS	156	*5+	20 - 150	09/18/23 14:41	10/02/23 23:17	1
M2-6:2 FTS	127		20 - 150	09/18/23 14:41	10/02/23 23:17	1
M2-8:2 FTS	138		20 - 150	09/18/23 14:41	10/02/23 23:17	1
13C3 HFPO-DA	106		20 - 150	09/18/23 14:41	10/02/23 23:17	1
d7-N-MeFOSE-M	94.9		20 - 150	09/18/23 14:41	10/02/23 23:17	1
d9-N-EtFOSE-M	87.1		20 - 150	09/18/23 14:41	10/02/23 23:17	1
d5-NEtPFOSA	47.7		20 - 150	09/18/23 14:41	10/02/23 23:17	1
d3-NMePFOSA	86.6		20 - 150	09/18/23 14:41	10/02/23 23:17	1

Lab Sample ID: LCS 410-420723/2-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid	25.0	19.3		ng/g		77	40 - 150
Perfluoropentanoic acid	12.5	10.7		ng/g		86	40 - 150
Perfluorohexanoic acid	6.26	5.43		ng/g		87	40 - 150
Perfluoroheptanoic acid	6.26	5.23		ng/g		84	40 - 150
Perfluorooctanoic acid	6.26	4.81		ng/g		77	40 - 150
Perfluorononanoic acid	6.26	5.27		ng/g		84	40 - 150
Perfluorodecanoic acid	6.26	5.54		ng/g		88	40 - 150
Perfluoroundecanoic acid	6.26	5.66		ng/g		90	40 - 150
Perfluorododecanoic acid	6.26	5.79		ng/g		93	40 - 150
Perfluorotridecanoic acid	6.26	5.26		ng/g		84	40 - 150
Perfluorotetradecanoic acid	6.26	5.46		ng/g		87	40 - 150
Perfluorobutanesulfonic acid	5.55	4.13		ng/g		74	40 - 150
Perfluoropentanesulfonic acid	5.89	5.15		ng/g		87	40 - 150
Perfluorohexanesulfonic acid	5.72	4.94		ng/g		86	40 - 150
Perfluoroheptanesulfonic acid	5.97	4.94		ng/g		83	40 - 150
Perfluorooctanesulfonic acid	5.81	4.74		ng/g		82	40 - 150
Perfluorononanesulfonic acid	6.02	4.65		ng/g		77	40 - 150
Perfluorodecanesulfonic acid	6.04	3.48		ng/g		58	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	6.07	2.90		ng/g		48	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	23.5	19.5		ng/g		83	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-420723/2-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	23.8	22.4		ng/g		94	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	24.0	18.6		ng/g		77	40 - 150
Perfluorooctanesulfonamide	6.26	5.37		ng/g		86	40 - 150
NMeFOSA	6.26	7.07		ng/g		113	40 - 150
N-ethylperfluoro-1-octanesulfonamide	6.26	8.03		ng/g		128	40 - 150
NMeFOSAA	6.26	5.52		ng/g		88	40 - 150
NEtFOSAA	6.26	5.23		ng/g		84	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	62.6	69.3		ng/g		111	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	62.6	72.7		ng/g		116	40 - 150
HFPO-DA	25.0	21.7		ng/g		87	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	21.8		ng/g		92	40 - 150
Perfluoro-3-methoxypropanoic acid	12.5	3.41	*-	ng/g		27	40 - 150
Perfluoro(4-methoxybutanoic acid)	12.5	16.2		ng/g		129	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	12.5	10.3		ng/g		82	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	23.4	17.9		ng/g		77	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	23.6	19.6		ng/g		83	40 - 150
PFEESA	11.1	9.96		ng/g		89	40 - 150
3:3 FTCA	31.3	13.6		ng/g		44	40 - 150
5:3 FTCA	156	149		ng/g		95	40 - 150
7:3 FTCA	156	158		ng/g		101	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	7.16	*5-	20 - 150
13C5 PFPeA	44.5		20 - 150
13C5 PFHxA	105		20 - 150
13C4 PFHpA	107		20 - 150
13C8 PFOA	116		20 - 150
13C9 PFNA	112		20 - 150
13C6 PFDA	111		20 - 150
13C7 PFUnA	117		20 - 150
13C2-PFDoDA	120		20 - 150
13C2 PFTeDA	76.3		20 - 150
13C3 PFBS	121		20 - 150
13C3 PFHxS	105		20 - 150
13C8 PFOS	109		20 - 150
13C8 FOSA	68.8		20 - 150
d3-NMeFOSAA	113		20 - 150
d5-NEtFOSAA	129		20 - 150
M2-4:2 FTS	157	*5+	20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-420723/2-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420723

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	120		20 - 150
M2-8:2 FTS	145		20 - 150
13C3 HFPO-DA	107		20 - 150
d7-N-MeFOSE-M	99.0		20 - 150
d9-N-EtFOSE-M	96.7		20 - 150
d5-NEtPFOSA	54.0		20 - 150
d3-NMePFOSA	103		20 - 150

Lab Sample ID: LLCS 410-420723/3-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluorobutanoic acid	4.00	3.14		ng/g		79	40 - 150	
Perfluoropentanoic acid	2.00	1.65		ng/g		83	40 - 150	
Perfluorohexanoic acid	1.00	0.860		ng/g		86	40 - 150	
Perfluoroheptanoic acid	1.00	0.891		ng/g		89	40 - 150	
Perfluorooctanoic acid	1.00	0.796		ng/g		80	40 - 150	
Perfluorononanoic acid	1.00	0.885		ng/g		88	40 - 150	
Perfluorodecanoic acid	1.00	0.930		ng/g		93	40 - 150	
Perfluoroundecanoic acid	1.00	0.890		ng/g		89	40 - 150	
Perfluorododecanoic acid	1.00	0.931		ng/g		93	40 - 150	
Perfluorotridecanoic acid	1.00	0.915		ng/g		92	40 - 150	
Perfluorotetradecanoic acid	1.00	0.841		ng/g		84	40 - 150	
Perfluorobutanesulfonic acid	0.887	0.683		ng/g		77	40 - 150	
Perfluoropentanesulfonic acid	0.941	0.749		ng/g		80	40 - 150	
Perfluorohexanesulfonic acid	0.914	0.711		ng/g		78	40 - 150	
Perfluoroheptanesulfonic acid	0.953	0.810		ng/g		85	40 - 150	
Perfluorooctanesulfonic acid	0.928	0.929		ng/g		100	40 - 150	
Perfluorononanesulfonic acid	0.962	0.753		ng/g		78	40 - 150	
Perfluorodecanesulfonic acid	0.965	0.573		ng/g		59	40 - 150	
Perfluorododecanesulfonic acid (PFDoS)	0.970	0.485	J	ng/g		50	40 - 150	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.75	3.25		ng/g		87	40 - 150	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.80	3.28		ng/g		86	40 - 150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.84	3.18		ng/g		83	40 - 150	
Perfluorooctanesulfonamide	1.00	0.854		ng/g		85	40 - 150	
NMeFOSA	1.00	0.865		ng/g		86	40 - 150	
N-ethylperfluoro-1-octanesulfonamide	1.00	0.997		ng/g		100	40 - 150	
NMeFOSAA	1.00	0.897		ng/g		90	40 - 150	
NEtFOSAA	1.00	0.853		ng/g		85	40 - 150	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	10.0	8.09		ng/g		81	40 - 150	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	10.0	8.48		ng/g		85	40 - 150	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-420723/3-A

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	4.00	3.48		ng/g		87	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.84		ng/g		102	40 - 150
Perfluoro-3-methoxypropanoic acid	2.00	0.286	J *-	ng/g		14	40 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	2.99		ng/g		149	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.43		ng/g		71	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	3.06		ng/g		82	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.32		ng/g		88	40 - 150
PFEESA	1.78	1.58		ng/g		89	40 - 150
3:3 FTCA	5.01	1.58	J *-	ng/g		32	40 - 150
5:3 FTCA	25.0	22.6		ng/g		90	40 - 150
7:3 FTCA	25.0	24.4		ng/g		98	40 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	1.47	*5-	20 - 150
13C5 PFPeA	18.5	*5-	20 - 150
13C5 PFHxA	103		20 - 150
13C4 PFHpA	101		20 - 150
13C8 PFOA	114		20 - 150
13C9 PFNA	108		20 - 150
13C6 PFDA	116		20 - 150
13C7 PFUnA	122		20 - 150
13C2-PFDoDA	125		20 - 150
13C2 PFTeDA	79.3		20 - 150
13C3 PFBS	121		20 - 150
13C3 PFHxS	112		20 - 150
13C8 PFOS	105		20 - 150
13C8 FOSA	67.0		20 - 150
d3-NMeFOSAA	111		20 - 150
d5-NEtFOSAA	119		20 - 150
M2-4:2 FTS	135		20 - 150
M2-6:2 FTS	134		20 - 150
M2-8:2 FTS	146		20 - 150
13C3 HFPO-DA	101		20 - 150
d7-N-MeFOSE-M	104		20 - 150
d9-N-EtFOSE-M	99.2		20 - 150
d5-NEtPFOSA	54.8		20 - 150
d3-NMePFOSA	101		20 - 150

Lab Sample ID: 410-141095-8 MS

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg5-082423

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	ND		24.1	18.5		ng/g		77	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-8 MS

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg5-082423

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid	ND		12.0	10.1		ng/g		84	40 - 150
Perfluorohexanoic acid	ND		6.02	5.21		ng/g		87	40 - 150
Perfluoroheptanoic acid	ND		6.02	5.04		ng/g		84	40 - 150
Perfluorooctanoic acid	ND		6.02	4.73		ng/g		79	40 - 150
Perfluorononanoic acid	ND		6.02	5.42		ng/g		90	40 - 150
Perfluorodecanoic acid	ND		6.02	5.74		ng/g		95	40 - 150
Perfluoroundecanoic acid	ND		6.02	5.25		ng/g		87	40 - 150
Perfluorododecanoic acid	ND		6.02	5.52		ng/g		92	40 - 150
Perfluorotridecanoic acid	ND		6.02	5.19		ng/g		86	40 - 150
Perfluorotetradecanoic acid	ND		6.02	5.17		ng/g		86	40 - 150
Perfluorobutanesulfonic acid	ND		5.34	4.33		ng/g		81	40 - 150
Perfluoropentanesulfonic acid	ND		5.66	4.43		ng/g		78	40 - 150
Perfluorohexanesulfonic acid	ND		5.50	4.58		ng/g		83	40 - 150
Perfluoroheptanesulfonic acid	ND		5.74	4.80		ng/g		84	40 - 150
Perfluorooctanesulfonic acid	2.0		5.59	4.52		ng/g		46	40 - 150
Perfluorononanesulfonic acid	ND		5.79	4.66		ng/g		80	40 - 150
Perfluorodecanesulfonic acid	ND		5.81	4.50		ng/g		78	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND		5.84	3.87		ng/g		66	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		22.6	17.0		ng/g		75	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		22.9	18.2		ng/g		80	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		23.1	18.9		ng/g		82	40 - 150
Perfluorooctanesulfonamide	ND		6.02	5.09		ng/g		85	40 - 150
NMeFOSA	ND		6.02	6.47		ng/g		107	40 - 150
N-ethylperfluoro-1-octanesulfonamide	ND		6.02	6.55		ng/g		109	40 - 150
NMeFOSAA	ND		6.02	5.17		ng/g		86	40 - 150
NEtFOSAA	ND		6.02	5.18		ng/g		86	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		60.2	64.1		ng/g		106	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		60.2	64.7		ng/g		108	40 - 150
HFPO-DA	ND		24.0	21.1		ng/g		88	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		22.7	23.2	I	ng/g		102	40 - 150
Perfluoro-3-methoxypropanoic acid	ND	F1 *- cn	12.0	3.28	F1 cn	ng/g		27	40 - 150
Perfluoro(4-methoxybutanoic acid)	ND		12.0	16.5		ng/g		137	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND		12.0	11.3		ng/g		94	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		22.5	19.8		ng/g		88	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		22.7	18.4		ng/g		81	40 - 150
PFEESA	ND		10.7	9.28		ng/g		87	40 - 150
3:3 FTCA	ND	*- cn	30.1	13.8	cn	ng/g		46	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-8 MS

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg5-082423

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	ND		150	142		ng/g		94	40 - 150
7:3 FTCA	ND		150	152		ng/g		101	40 - 150
Isotope Dilution									
	%Recovery	MS Qualifier	Limits						
13C4 PFBA	9.17	*5- cn	20 - 150						
13C5 PFPeA	57.5	cn	20 - 150						
13C5 PFHxA	106		20 - 150						
13C4 PFHpA	111		20 - 150						
13C8 PFOA	104		20 - 150						
13C9 PFNA	106		20 - 150						
13C6 PFDA	106		20 - 150						
13C7 PFUnA	110		20 - 150						
13C2-PFDoDA	112		20 - 150						
13C2 PFTeDA	92.4		20 - 150						
13C3 PFBS	114		20 - 150						
13C3 PFHxS	106		20 - 150						
13C8 PFOS	113		20 - 150						
13C8 FOSA	112		20 - 150						
d3-NMeFOSAA	120		20 - 150						
d5-NEtFOSAA	118		20 - 150						
M2-4:2 FTS	130	cn	20 - 150						
M2-6:2 FTS	111		20 - 150						
M2-8:2 FTS	115		20 - 150						
13C3 HFPO-DA	105		20 - 150						
d7-N-MeFOSE-M	115		20 - 150						
d9-N-EtFOSE-M	105		20 - 150						
d5-NEtPFOSA	102		20 - 150						
d3-NMePFOSA	109		20 - 150						

Lab Sample ID: 410-141095-8 MSD

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg5-082423

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorobutanoic acid	ND		24.9	18.6		ng/g		75	40 - 150	1	30
Perfluoropentanoic acid	ND		12.5	10.3		ng/g		83	40 - 150	2	30
Perfluorohexanoic acid	ND		6.23	4.90		ng/g		79	40 - 150	6	30
Perfluoroheptanoic acid	ND		6.23	5.44		ng/g		87	40 - 150	8	30
Perfluorooctanoic acid	ND		6.23	4.93		ng/g		79	40 - 150	4	30
Perfluorononanoic acid	ND		6.23	5.26		ng/g		84	40 - 150	3	30
Perfluorodecanoic acid	ND		6.23	5.91		ng/g		95	40 - 150	3	30
Perfluoroundecanoic acid	ND		6.23	5.49		ng/g		88	40 - 150	4	30
Perfluorododecanoic acid	ND		6.23	5.69		ng/g		91	40 - 150	3	30
Perfluorotridecanoic acid	ND		6.23	5.18		ng/g		83	40 - 150	0	30
Perfluorotetradecanoic acid	ND		6.23	5.06		ng/g		81	40 - 150	2	30
Perfluorobutanesulfonic acid	ND		5.52	4.15		ng/g		75	40 - 150	4	30
Perfluoropentanesulfonic acid	ND		5.86	4.23		ng/g		72	40 - 150	5	30
Perfluorohexanesulfonic acid	ND		5.69	4.67		ng/g		82	40 - 150	2	30
Perfluoroheptanesulfonic acid	ND		5.94	4.92		ng/g		83	40 - 150	3	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-8 MSD

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg5-082423

Prep Type: Total/NA

Prep Batch: 420723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	2.0		5.78	4.67		ng/g		47	40 - 150	3	30
Perfluorononanesulfonic acid	ND		5.99	4.73		ng/g		79	40 - 150	2	30
Perfluorodecane sulfonic acid	ND		6.01	4.46		ng/g		74	40 - 150	1	30
Perfluorododecane sulfonic acid (PFDoS)	ND		6.04	4.06		ng/g		67	40 - 150	5	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		23.4	20.4		ng/g		87	40 - 150	18	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		23.7	21.0		ng/g		89	40 - 150	14	30
1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2)	ND		23.9	19.3		ng/g		81	40 - 150	2	30
Perfluorooctanesulfonamide	ND		6.23	5.42		ng/g		87	40 - 150	6	30
NMeFOSA	ND		6.23	6.59		ng/g		106	40 - 150	2	30
N-ethylperfluoro-1-octanesulfonamide	ND		6.23	6.81		ng/g		109	40 - 150	4	30
NMeFOSAA	ND		6.23	5.16		ng/g		83	40 - 150	0	30
NEtFOSAA	ND		6.23	5.35		ng/g		86	40 - 150	3	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		62.3	68.5		ng/g		110	40 - 150	7	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		62.3	67.3		ng/g		108	40 - 150	4	30
HFPO-DA	ND		24.9	22.9		ng/g		92	40 - 150	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		23.5	26.2	I	ng/g		111	40 - 150	12	30
Perfluoro-3-methoxypropanoic acid	ND	F1 *- cn	12.5	3.40	F1 cn	ng/g		27	40 - 150	3	30
Perfluoro(4-methoxybutanoic acid)	ND		12.5	15.3		ng/g		122	40 - 150	8	30
Perfluoro-3,6-dioxaheptanoic acid	ND		12.5	10.2		ng/g		82	40 - 150	10	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		23.3	21.3		ng/g		92	40 - 150	7	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		23.5	19.6		ng/g		83	40 - 150	6	30
PFEESA	ND		11.1	8.85		ng/g		80	40 - 150	5	30
3:3 FTCA	ND	*- cn	31.1	14.2	cn	ng/g		46	40 - 150	2	30
5:3 FTCA	ND		156	143		ng/g		92	40 - 150	1	30
7:3 FTCA	ND		156	136		ng/g		87	40 - 150	11	30
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
13C4 PFBA	10.8	*5- cn	20 - 150								
13C5 PFPeA	60.8	cn	20 - 150								
13C5 PFHxA	102		20 - 150								
13C4 PFHpA	98.6		20 - 150								
13C8 PFOA	102		20 - 150								
13C9 PFNA	108		20 - 150								
13C6 PFDA	110		20 - 150								
13C7 PFUnA	111		20 - 150								
13C2-PFDoDA	116		20 - 150								
13C2 PFTeDA	99.2		20 - 150								

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-141095-8 MSD

Matrix: Tissue

Analysis Batch: 426222

Client Sample ID: Ag-Vg5-082423

Prep Type: Total/NA

Prep Batch: 420723

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 PFBS	125		20 - 150
13C3 PFHxS	113		20 - 150
13C8 PFOS	106		20 - 150
13C8 FOSA	102		20 - 150
d3-NMeFOSAA	118		20 - 150
d5-NEtFOSAA	115		20 - 150
M2-4:2 FTS	144	cn	20 - 150
M2-6:2 FTS	117		20 - 150
M2-8:2 FTS	126		20 - 150
13C3 HFPO-DA	91.6		20 - 150
d7-N-MeFOSE-M	102		20 - 150
d9-N-EtFOSE-M	103		20 - 150
d5-NEtPFOSA	96.2		20 - 150
d3-NMePFOSA	101		20 - 150

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-416373/1-B

Matrix: Food and Feed

Analysis Batch: 427993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416373

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/06/23 01:12	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		09/06/23 09:10	10/06/23 01:12	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		09/06/23 09:10	10/06/23 01:12	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
HFPO-DA	ND		0.20	0.10	ng/g		09/06/23 09:10	10/06/23 01:12	1
NEtFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		09/06/23 09:10	10/06/23 01:12	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/06/23 01:12	1
NMeFOSAA	ND		0.20	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
NMeFOSA	ND		0.20	0.050	ng/g		09/06/23 09:10	10/06/23 01:12	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	ND		0.20	0.050	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorobutanoic acid	ND		0.20	0.080	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1

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QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-416373/1-B

Matrix: Food and Feed

Analysis Batch: 427993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
PFEESA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
3:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
7:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
5:3 FTCA	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		09/06/23 09:10	10/06/23 01:12	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	61		10 - 200	09/06/23 09:10	10/06/23 01:12	1
M2-6:2 FTS	64		10 - 200	09/06/23 09:10	10/06/23 01:12	1
M2-8:2 FTS	68		15 - 200	09/06/23 09:10	10/06/23 01:12	1
13C2 PFTeDA	56		10 - 169	09/06/23 09:10	10/06/23 01:12	1
13C3 HFPO-DA	64		10 - 169	09/06/23 09:10	10/06/23 01:12	1
13C3 PFBS	79		27 - 179	09/06/23 09:10	10/06/23 01:12	1
13C4 PFBA	61		28 - 153	09/06/23 09:10	10/06/23 01:12	1
13C4 PFHpA	69		10 - 178	09/06/23 09:10	10/06/23 01:12	1
13C5 PFPeA	63		24 - 161	09/06/23 09:10	10/06/23 01:12	1
13C8 PFOA	71		26 - 159	09/06/23 09:10	10/06/23 01:12	1
13C8 PFOS	80		41 - 154	09/06/23 09:10	10/06/23 01:12	1
d3-NMeFOSAA	73		10 - 178	09/06/23 09:10	10/06/23 01:12	1
d5-NEtFOSAA	85		10 - 193	09/06/23 09:10	10/06/23 01:12	1
d7-N-MeFOSE-M	64		10 - 179	09/06/23 09:10	10/06/23 01:12	1
d9-N-EtFOSE-M	61		10 - 185	09/06/23 09:10	10/06/23 01:12	1
13C3 PFHxS	83		24 - 171	09/06/23 09:10	10/06/23 01:12	1
13C5 PFHxA	70		10 - 174	09/06/23 09:10	10/06/23 01:12	1
13C6 PFDA	67		26 - 161	09/06/23 09:10	10/06/23 01:12	1
13C7 PFUnA	65		12 - 173	09/06/23 09:10	10/06/23 01:12	1
d3-NMePFOSA	59		10 - 175	09/06/23 09:10	10/06/23 01:12	1
d5-NEtPFOSA	58		10 - 180	09/06/23 09:10	10/06/23 01:12	1
13C8 FOSA	82		14 - 163	09/06/23 09:10	10/06/23 01:12	1
13C2-PFDoDA	61		11 - 166	09/06/23 09:10	10/06/23 01:12	1
13C9 PFNA	68		26 - 165	09/06/23 09:10	10/06/23 01:12	1
13C-6:2 FTCA	47		10 - 200	09/06/23 09:10	10/06/23 01:12	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-416373/2-B

Matrix: Food and Feed

Analysis Batch: 426737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.19	1.19		ng/g		100	55 - 135
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.20	1.34		ng/g		112	58 - 131
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.21	1.27		ng/g		105	59 - 135
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.23	1.32		ng/g		107	55 - 133
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.19	1.17		ng/g		98	62 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.21	1.14		ng/g		94	57 - 137
HFPO-DA	1.28	1.04		ng/g		81	49 - 135
NEtFOSAA	1.28	1.27		ng/g		99	57 - 127
N-ethylperfluoro-1-octanesulfonamide	1.28	1.25		ng/g		98	60 - 123
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.28	1.39		ng/g		109	60 - 126
NMeFOSAA	1.28	1.33		ng/g		104	60 - 134
NMeFOSA	1.28	1.31		ng/g		103	60 - 129
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.28	1.37		ng/g		107	60 - 130
Perfluorobutanesulfonic acid	1.13	1.10		ng/g		97	54 - 130
Perfluorobutanoic acid	1.28	1.22		ng/g		95	60 - 128
Perfluorodecanesulfonic acid	1.23	1.28		ng/g		104	57 - 132
Perfluorodecanoic acid	1.28	1.30		ng/g		101	56 - 133
Perfluorododecanesulfonic acid (PFDoS)	1.24	1.19		ng/g		96	38 - 145
Perfluorododecanoic acid	1.28	1.30		ng/g		101	60 - 135
Perfluoroheptanesulfonic acid	1.22	1.19		ng/g		98	59 - 132
Perfluoroheptanoic acid	1.28	1.30		ng/g		102	59 - 137
Perfluorohexanesulfonic acid	1.17	1.19		ng/g		102	59 - 129
Perfluorohexanoic acid	1.28	1.16		ng/g		90	59 - 132
Perfluorononanesulfonic acid	1.23	1.22		ng/g		100	60 - 132
Perfluorononanoic acid	1.28	1.35		ng/g		105	61 - 134
Perfluorooctanesulfonamide	1.28	1.35		ng/g		105	47 - 149
Perfluorooctanesulfonic acid	1.18	1.16		ng/g		98	61 - 126
Perfluorooctanoic acid	1.28	1.31		ng/g		103	59 - 131
Perfluoropentanesulfonic acid	1.20	1.20		ng/g		100	57 - 133
Perfluoropentanoic acid	1.28	1.23		ng/g		96	58 - 134
Perfluorotetradecanoic acid	1.28	1.35		ng/g		105	62 - 134
Perfluorotridecanoic acid	1.28	1.26		ng/g		99	53 - 143
Perfluoroundecanoic acid	1.28	1.24		ng/g		97	60 - 134
PFEESA	1.14	1.10		ng/g		97	70 - 130
3:3 FTCA	1.28	1.55		ng/g		121	70 - 130
Perfluoro-3-methoxypropanoic acid	1.28	1.36		ng/g		106	70 - 130
7:3 FTCA	1.28	1.80	+	ng/g		141	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	1.28	1.06		ng/g		82	70 - 130

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-416373/2-B

Matrix: Food and Feed

Analysis Batch: 426737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	1.28	1.38		ng/g		108	70 - 130
Perfluoro(4-methoxybutanoic acid)	1.28	1.06		ng/g		83	70 - 130

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	44		10 - 200
M2-6:2 FTS	51		10 - 200
M2-8:2 FTS	45		15 - 200
13C2 PFTeDA	49		10 - 169
13C3 HFPO-DA	58		10 - 169
13C3 PFBS	67		27 - 179
13C4 PFBA	51		28 - 153
13C4 PFHpA	56		10 - 178
13C5 PFPeA	53		24 - 161
13C8 PFOA	55		26 - 159
13C8 PFOS	65		41 - 154
d3-NMeFOSAA	51		10 - 178
d5-NEtFOSAA	62		10 - 193
d7-N-MeFOSE-M	53		10 - 179
d9-N-EtFOSE-M	51		10 - 185
13C3 PFHxS	64		24 - 171
13C5 PFHxA	52		10 - 174
13C6 PFDA	53		26 - 161
13C7 PFUnA	54		12 - 173
d3-NMePFOSA	39		10 - 175
d5-NEtPFOSA	37		10 - 180
13C8 FOSA	60		14 - 163
13C2-PFDoDA	50		11 - 166
13C9 PFNA	54		26 - 165
13C-6:2 FTCA	36		10 - 200

Lab Sample ID: LCSD 410-416373/3-B

Matrix: Food and Feed

Analysis Batch: 427993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 416373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.19	1.16		ng/g		97	55 - 135	3		30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.20	1.33		ng/g		111	58 - 131	1		30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.21	1.26		ng/g		103	59 - 135	1		30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.23	1.34		ng/g		109	55 - 133	2		30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.19	1.15		ng/g		97	62 - 130	1		30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.21	1.17		ng/g		97	57 - 137	3		30
HFPO-DA	1.28	1.02		ng/g		80	49 - 135	1		30
NEtFOSAA	1.28	1.19		ng/g		93	57 - 127	6		30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-416373/3-B

Matrix: Food and Feed

Analysis Batch: 427993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 416373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-ethylperfluoro-1-octanesulfonamide	1.28	1.34		ng/g		105	60 - 123	7	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.28	1.36		ng/g		107	60 - 126	2	30
NMeFOSAA	1.28	1.28		ng/g		100	60 - 134	4	30
NMeFOSA	1.28	1.28		ng/g		100	60 - 129	3	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.28	1.36		ng/g		106	60 - 130	1	30
Perfluorobutanesulfonic acid	1.13	1.09		ng/g		96	54 - 130	1	30
Perfluorobutanoic acid	1.28	1.23		ng/g		96	60 - 128	1	30
Perfluorodecanesulfonic acid	1.23	1.24		ng/g		100	57 - 132	3	30
Perfluorodecanoic acid	1.28	1.33		ng/g		104	56 - 133	3	30
Perfluorododecanesulfonic acid (PFDoS)	1.24	1.22		ng/g		98	38 - 145	2	30
Perfluorododecanoic acid	1.28	1.29		ng/g		101	60 - 135	0	30
Perfluoroheptanesulfonic acid	1.22	1.21		ng/g		99	59 - 132	2	30
Perfluoroheptanoic acid	1.28	1.28		ng/g		100	59 - 137	2	30
Perfluorohexanesulfonic acid	1.17	1.14		ng/g		97	59 - 129	4	30
Perfluorohexanoic acid	1.28	1.12		ng/g		87	59 - 132	3	30
Perfluorononanesulfonic acid	1.23	1.22		ng/g		100	60 - 132	0	30
Perfluorononanoic acid	1.28	1.29		ng/g		101	61 - 134	4	30
Perfluorooctanesulfonamide	1.28	1.31		ng/g		102	47 - 149	3	30
Perfluorooctanesulfonic acid	1.18	1.16		ng/g		98	61 - 126	0	30
Perfluorooctanoic acid	1.28	1.24		ng/g		97	59 - 131	5	30
Perfluoropentanesulfonic acid	1.20	1.20		ng/g		100	57 - 133	0	30
Perfluoropentanoic acid	1.28	1.21		ng/g		94	58 - 134	2	30
Perfluorotetradecanoic acid	1.28	1.27		ng/g		99	62 - 134	6	30
Perfluorotridecanoic acid	1.28	1.25		ng/g		98	53 - 143	1	30
Perfluoroundecanoic acid	1.28	1.23		ng/g		96	60 - 134	1	30
PFEESA	1.14	1.10		ng/g		97	70 - 130	0	30
3:3 FTCA	1.28	1.74	*+	ng/g		136	70 - 130	11	30
Perfluoro-3-methoxypropanoic acid	1.28	1.39		ng/g		109	70 - 130	2	30
7:3 FTCA	1.28	2.01	*+	ng/g		157	70 - 130	11	30
Perfluoro-3,6-dioxahexanoic acid	1.28	1.02		ng/g		80	70 - 130	3	30
5:3 FTCA	1.28	1.53		ng/g		120	70 - 130	11	30
Perfluoro(4-methoxybutanoic acid)	1.28	1.07		ng/g		83	70 - 130	0	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	59		10 - 200
M2-6:2 FTS	55		10 - 200
M2-8:2 FTS	54		15 - 200
13C2 PFTeDA	56		10 - 169
13C3 HFPO-DA	56		10 - 169
13C3 PFBS	78		27 - 179
13C4 PFBA	57		28 - 153
13C4 PFHpA	66		10 - 178

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-416373/3-B

Matrix: Food and Feed

Analysis Batch: 427993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 416373

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C5 PFPeA	61		24 - 161
13C8 PFOA	68		26 - 159
13C8 PFOS	77		41 - 154
d3-NMeFOSAA	70		10 - 178
d5-NEtFOSAA	78		10 - 193
d7-N-MeFOSE-M	66		10 - 179
d9-N-EtFOSE-M	63		10 - 185
13C3 PFHxS	80		24 - 171
13C5 PFHxA	68		10 - 174
13C6 PFDA	66		26 - 161
13C7 PFUnA	64		12 - 173
d3-NMePFOSA	62		10 - 175
d5-NEtPFOSA	57		10 - 180
13C8 FOSA	77		14 - 163
13C2-PFDoDA	61		11 - 166
13C9 PFNA	65		26 - 165
13C-6:2 FTCA	46		10 - 200

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

LCMS

Prep Batch: 416373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-1	Ag-Fr1-082523	Total/NA	Food & Feed	FDA	
410-141095-1 - RA	Ag-Fr1-082523	Total/NA	Food & Feed	FDA	
410-141095-2	Ag-Fr2-082523	Total/NA	Food & Feed	FDA	
410-141095-2 - RA	Ag-Fr2-082523	Total/NA	Food & Feed	FDA	
410-141095-5	Ag-Fr3-082523	Total/NA	Food & Feed	FDA	
410-141095-12 - RA	Ag-Fr3-082423	Total/NA	Food & Feed	FDA	
410-141095-12	Ag-Fr3-082423	Total/NA	Food & Feed	FDA	
410-141095-14	Ag-Fr4-082423	Total/NA	Food & Feed	FDA	
410-141095-15	Ag-Fr5-082423	Total/NA	Food & Feed	FDA	
410-141095-16	Ag-Fr6-082423	Total/NA	Food & Feed	FDA	
410-141095-24	Ag-Fr7-082423	Total/NA	Food & Feed	FDA	
410-141095-29	Ag-Fr8-082423	Total/NA	Food & Feed	FDA	
410-141095-29 - RA	Ag-Fr8-082423	Total/NA	Food & Feed	FDA	
MB 410-416373/1-B	Method Blank	Total/NA	Food and Feed	FDA	
LCS 410-416373/2-B	Lab Control Sample	Total/NA	Food and Feed	FDA	
LCSD 410-416373/3-B	Lab Control Sample Dup	Total/NA	Food and Feed	FDA	

Cleanup Batch: 416886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-1	Ag-Fr1-082523	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-1 - RA	Ag-Fr1-082523	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-2	Ag-Fr2-082523	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-2 - RA	Ag-Fr2-082523	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-5	Ag-Fr3-082523	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-12	Ag-Fr3-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-12 - RA	Ag-Fr3-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-14	Ag-Fr4-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-15	Ag-Fr5-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-16	Ag-Fr6-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-24	Ag-Fr7-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-29	Ag-Fr8-082423	Total/NA	Food & Feed	Extract Aliquot	416373
410-141095-29 - RA	Ag-Fr8-082423	Total/NA	Food & Feed	Extract Aliquot	416373
MB 410-416373/1-B	Method Blank	Total/NA	Food and Feed	Extract Aliquot	416373
LCS 410-416373/2-B	Lab Control Sample	Total/NA	Food and Feed	Extract Aliquot	416373
LCSD 410-416373/3-B	Lab Control Sample Dup	Total/NA	Food and Feed	Extract Aliquot	416373

Cleanup Batch: 419805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-3 - DL	Ag-Vg1-082523	Total/NA	Tissue	Homogenization	
410-141095-3	Ag-Vg1-082523	Total/NA	Tissue	Homogenization	
410-141095-4	Ag-Vg2-082523	Total/NA	Tissue	Homogenization	
410-141095-4 - DL	Ag-Vg2-082523	Total/NA	Tissue	Homogenization	
410-141095-6	Ag-Vg3-082423	Total/NA	Tissue	Homogenization	
410-141095-6 - DL	Ag-Vg3-082423	Total/NA	Tissue	Homogenization	
410-141095-7	Ag-Vg4-082423	Total/NA	Tissue	Homogenization	
410-141095-7 - DL	Ag-Vg4-082423	Total/NA	Tissue	Homogenization	
410-141095-8 - DL	Ag-Vg5-082423	Total/NA	Tissue	Homogenization	
410-141095-8	Ag-Vg5-082423	Total/NA	Tissue	Homogenization	
410-141095-9	Ag-Vg6-082423	Total/NA	Tissue	Homogenization	
410-141095-9 - DL	Ag-Vg6-082423	Total/NA	Tissue	Homogenization	
410-141095-10	Ag-Vg7-082423	Total/NA	Tissue	Homogenization	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

LCMS (Continued)

Cleanup Batch: 419805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-10 - DL	Ag-Vg7-082423	Total/NA	Tissue	Homogenization	
410-141095-11 - DL	Ag-Vg8-082423	Total/NA	Tissue	Homogenization	
410-141095-11	Ag-Vg8-082423	Total/NA	Tissue	Homogenization	
410-141095-13	X2-082423	Total/NA	Tissue	Homogenization	
410-141095-13 - DL	X2-082423	Total/NA	Tissue	Homogenization	
410-141095-17 - DL	Ag-Vg9-082423	Total/NA	Tissue	Homogenization	
410-141095-17	Ag-Vg9-082423	Total/NA	Tissue	Homogenization	
410-141095-18 - DL	Ag-Vg10-082423	Total/NA	Tissue	Homogenization	
410-141095-18	Ag-Vg10-082423	Total/NA	Tissue	Homogenization	
410-141095-19 - DL	Ag-Vg11-082423	Total/NA	Tissue	Homogenization	
410-141095-19	Ag-Vg11-082423	Total/NA	Tissue	Homogenization	
410-141095-20	Ag-Vg12-082423	Total/NA	Tissue	Homogenization	
410-141095-20 - DL	Ag-Vg12-082423	Total/NA	Tissue	Homogenization	
410-141095-21	Ag-Vg13-082423	Total/NA	Tissue	Homogenization	
410-141095-21 - DL	Ag-Vg13-082423	Total/NA	Tissue	Homogenization	
410-141095-22	Ag-Vg14-082423	Total/NA	Tissue	Homogenization	
410-141095-22 - DL	Ag-Vg14-082423	Total/NA	Tissue	Homogenization	
410-141095-23 - DL	Ag-Vg15-082423	Total/NA	Tissue	Homogenization	
410-141095-23	Ag-Vg15-082423	Total/NA	Tissue	Homogenization	
410-141095-8 MS	Ag-Vg5-082423	Total/NA	Tissue	Homogenization	
410-141095-8 MSD	Ag-Vg5-082423	Total/NA	Tissue	Homogenization	
410-141095-21 MS	Ag-Vg13-082423	Total/NA	Tissue	Homogenization	
410-141095-21 MSD	Ag-Vg13-082423	Total/NA	Tissue	Homogenization	

Cleanup Batch: 419809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-25	Ag-Vg16-082423	Total/NA	Tissue	Homogenization	
410-141095-25 - DL	Ag-Vg16-082423	Total/NA	Tissue	Homogenization	
410-141095-26 - DL	Ag-Vg17-082423	Total/NA	Tissue	Homogenization	
410-141095-26	Ag-Vg17-082423	Total/NA	Tissue	Homogenization	
410-141095-27	X3-082423	Total/NA	Tissue	Homogenization	
410-141095-27 - DL	X3-082423	Total/NA	Tissue	Homogenization	
410-141095-28 - DL	Ag-Vg18-082423	Total/NA	Tissue	Homogenization	
410-141095-28	Ag-Vg18-082423	Total/NA	Tissue	Homogenization	
410-141095-30 - DL	Ag-Vg19-082423	Total/NA	Tissue	Homogenization	
410-141095-30	Ag-Vg19-082423	Total/NA	Tissue	Homogenization	
410-141095-30 DU	Ag-Vg19-082423	Total/NA	Tissue	Homogenization	

Prep Batch: 420715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-18 - DL	Ag-Vg10-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-18	Ag-Vg10-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-19 - DL	Ag-Vg11-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-19	Ag-Vg11-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-20 - DL	Ag-Vg12-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-20	Ag-Vg12-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-21	Ag-Vg13-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-21 - DL	Ag-Vg13-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-22	Ag-Vg14-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-22 - DL	Ag-Vg14-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-23 - DL	Ag-Vg15-082423	Total/NA	Tissue	1633 Shake	419805

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

LCMS (Continued)

Prep Batch: 420715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-23	Ag-Vg15-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-25	Ag-Vg16-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-25 - DL	Ag-Vg16-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-26	Ag-Vg17-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-26 - DL	Ag-Vg17-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-27	X3-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-27 - DL	X3-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-28 - DL	Ag-Vg18-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-28	Ag-Vg18-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-30 - DL	Ag-Vg19-082423	Total/NA	Tissue	1633 Shake	419809
410-141095-30	Ag-Vg19-082423	Total/NA	Tissue	1633 Shake	419809
MB 410-420715/1-A	Method Blank	Total/NA	Tissue	1633 Shake	
LCS 410-420715/2-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
LLCS 410-420715/3-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
410-141095-21 MS	Ag-Vg13-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-21 MSD	Ag-Vg13-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-30 DU	Ag-Vg19-082423	Total/NA	Tissue	1633 Shake	419809

Prep Batch: 420723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-3 - DL	Ag-Vg1-082523	Total/NA	Tissue	1633 Shake	419805
410-141095-3	Ag-Vg1-082523	Total/NA	Tissue	1633 Shake	419805
410-141095-4	Ag-Vg2-082523	Total/NA	Tissue	1633 Shake	419805
410-141095-4 - DL	Ag-Vg2-082523	Total/NA	Tissue	1633 Shake	419805
410-141095-6	Ag-Vg3-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-6 - DL	Ag-Vg3-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-7	Ag-Vg4-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-7 - DL	Ag-Vg4-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-8	Ag-Vg5-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-8 - DL	Ag-Vg5-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-9	Ag-Vg6-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-9 - DL	Ag-Vg6-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-10 - DL	Ag-Vg7-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-10	Ag-Vg7-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-11 - DL	Ag-Vg8-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-11	Ag-Vg8-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-13 - DL	X2-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-13	X2-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-17 - DL	Ag-Vg9-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-17	Ag-Vg9-082423	Total/NA	Tissue	1633 Shake	419805
MB 410-420723/1-A	Method Blank	Total/NA	Tissue	1633 Shake	
LCS 410-420723/2-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
LLCS 410-420723/3-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
410-141095-8 MS	Ag-Vg5-082423	Total/NA	Tissue	1633 Shake	419805
410-141095-8 MSD	Ag-Vg5-082423	Total/NA	Tissue	1633 Shake	419805

Analysis Batch: 426222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-3	Ag-Vg1-082523	Total/NA	Tissue	1633	420723
410-141095-4	Ag-Vg2-082523	Total/NA	Tissue	1633	420723
410-141095-6	Ag-Vg3-082423	Total/NA	Tissue	1633	420723

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

LCMS (Continued)

Analysis Batch: 426222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-7	Ag-Vg4-082423	Total/NA	Tissue	1633	420723
410-141095-8	Ag-Vg5-082423	Total/NA	Tissue	1633	420723
410-141095-9	Ag-Vg6-082423	Total/NA	Tissue	1633	420723
410-141095-10	Ag-Vg7-082423	Total/NA	Tissue	1633	420723
410-141095-11	Ag-Vg8-082423	Total/NA	Tissue	1633	420723
410-141095-13	X2-082423	Total/NA	Tissue	1633	420723
410-141095-17	Ag-Vg9-082423	Total/NA	Tissue	1633	420723
410-141095-18	Ag-Vg10-082423	Total/NA	Tissue	1633	420715
410-141095-19	Ag-Vg11-082423	Total/NA	Tissue	1633	420715
410-141095-20	Ag-Vg12-082423	Total/NA	Tissue	1633	420715
410-141095-21	Ag-Vg13-082423	Total/NA	Tissue	1633	420715
410-141095-22	Ag-Vg14-082423	Total/NA	Tissue	1633	420715
410-141095-23	Ag-Vg15-082423	Total/NA	Tissue	1633	420715
410-141095-25	Ag-Vg16-082423	Total/NA	Tissue	1633	420715
410-141095-26	Ag-Vg17-082423	Total/NA	Tissue	1633	420715
410-141095-27	X3-082423	Total/NA	Tissue	1633	420715
410-141095-28	Ag-Vg18-082423	Total/NA	Tissue	1633	420715
410-141095-30	Ag-Vg19-082423	Total/NA	Tissue	1633	420715
MB 410-420715/1-A	Method Blank	Total/NA	Tissue	1633	420715
MB 410-420723/1-A	Method Blank	Total/NA	Tissue	1633	420723
LCS 410-420715/2-A	Lab Control Sample	Total/NA	Tissue	1633	420715
LCS 410-420723/2-A	Lab Control Sample	Total/NA	Tissue	1633	420723
LLCS 410-420715/3-A	Lab Control Sample	Total/NA	Tissue	1633	420715
LLCS 410-420723/3-A	Lab Control Sample	Total/NA	Tissue	1633	420723
410-141095-8 MS	Ag-Vg5-082423	Total/NA	Tissue	1633	420723
410-141095-8 MSD	Ag-Vg5-082423	Total/NA	Tissue	1633	420723
410-141095-21 MS	Ag-Vg13-082423	Total/NA	Tissue	1633	420715
410-141095-21 MSD	Ag-Vg13-082423	Total/NA	Tissue	1633	420715

Analysis Batch: 426737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-1	Ag-Fr1-082523	Total/NA	Food & Feed	537 IDA	416886
410-141095-2	Ag-Fr2-082523	Total/NA	Food & Feed	537 IDA	416886
410-141095-5	Ag-Fr3-082523	Total/NA	Food & Feed	537 IDA	416886
410-141095-12	Ag-Fr3-082423	Total/NA	Food & Feed	537 IDA	416886
410-141095-14	Ag-Fr4-082423	Total/NA	Food & Feed	537 IDA	416886
410-141095-15	Ag-Fr5-082423	Total/NA	Food & Feed	537 IDA	416886
410-141095-16	Ag-Fr6-082423	Total/NA	Food & Feed	537 IDA	416886
410-141095-24	Ag-Fr7-082423	Total/NA	Food & Feed	537 IDA	416886
410-141095-29	Ag-Fr8-082423	Total/NA	Food & Feed	537 IDA	416886
LCS 410-416373/2-B	Lab Control Sample	Total/NA	Food and Feed	537 IDA	416886

Analysis Batch: 427239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-1 - RA	Ag-Fr1-082523	Total/NA	Food & Feed	537 IDA	416886
410-141095-2 - RA	Ag-Fr2-082523	Total/NA	Food & Feed	537 IDA	416886
410-141095-12 - RA	Ag-Fr3-082423	Total/NA	Food & Feed	537 IDA	416886
410-141095-29 - RA	Ag-Fr8-082423	Total/NA	Food & Feed	537 IDA	416886

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

LCMS

Analysis Batch: 427758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-4 - DL	Ag-Vg2-082523	Total/NA	Tissue	1633	420723
410-141095-7 - DL	Ag-Vg4-082423	Total/NA	Tissue	1633	420723
410-141095-8 - DL	Ag-Vg5-082423	Total/NA	Tissue	1633	420723
410-141095-13 - DL	X2-082423	Total/NA	Tissue	1633	420723
410-141095-17 - DL	Ag-Vg9-082423	Total/NA	Tissue	1633	420723

Analysis Batch: 427993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-416373/1-B	Method Blank	Total/NA	Food and Feed	537 IDA	416886
LCSD 410-416373/3-B	Lab Control Sample Dup	Total/NA	Food and Feed	537 IDA	416886

Analysis Batch: 428311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-3 - DL	Ag-Vg1-082523	Total/NA	Tissue	1633	420723
410-141095-6 - DL	Ag-Vg3-082423	Total/NA	Tissue	1633	420723
410-141095-9 - DL	Ag-Vg6-082423	Total/NA	Tissue	1633	420723
410-141095-10 - DL	Ag-Vg7-082423	Total/NA	Tissue	1633	420723
410-141095-11 - DL	Ag-Vg8-082423	Total/NA	Tissue	1633	420723

Analysis Batch: 431781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141095-18 - DL	Ag-Vg10-082423	Total/NA	Tissue	1633	420715
410-141095-19 - DL	Ag-Vg11-082423	Total/NA	Tissue	1633	420715
410-141095-20 - DL	Ag-Vg12-082423	Total/NA	Tissue	1633	420715
410-141095-21 - DL	Ag-Vg13-082423	Total/NA	Tissue	1633	420715
410-141095-22 - DL	Ag-Vg14-082423	Total/NA	Tissue	1633	420715
410-141095-23 - DL	Ag-Vg15-082423	Total/NA	Tissue	1633	420715
410-141095-25 - DL	Ag-Vg16-082423	Total/NA	Tissue	1633	420715
410-141095-26 - DL	Ag-Vg17-082423	Total/NA	Tissue	1633	420715
410-141095-27 - DL	X3-082423	Total/NA	Tissue	1633	420715
410-141095-28 - DL	Ag-Vg18-082423	Total/NA	Tissue	1633	420715
410-141095-30 - DL	Ag-Vg19-082423	Total/NA	Tissue	1633	420715
410-141095-30 DU	Ag-Vg19-082423	Total/NA	Tissue	1633	420715

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr1-082523

Lab Sample ID: 410-141095-1

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 19:58
Total/NA	Prep	FDA	RA		416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot	RA		416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA	RA	1	427239	VK3G	ELLE	10/04/23 14:54

Client Sample ID: Ag-Fr2-082523

Lab Sample ID: 410-141095-2

Date Collected: 08/25/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 20:10
Total/NA	Prep	FDA	RA		416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot	RA		416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA	RA	1	427239	VK3G	ELLE	10/04/23 15:06

Client Sample ID: Ag-Vg1-082523

Lab Sample ID: 410-141095-3

Date Collected: 08/25/23 10:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/02/23 23:56
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	428311	UCD3	ELLE	10/06/23 21:08

Client Sample ID: Ag-Vg2-082523

Lab Sample ID: 410-141095-4

Date Collected: 08/25/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 00:09
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	427758	UCD3	ELLE	10/05/23 20:06

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Fr3-082523

Lab Sample ID: 410-141095-5

Date Collected: 08/25/23 10:00

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 20:22

Client Sample ID: Ag-Vg3-082423

Lab Sample ID: 410-141095-6

Date Collected: 08/24/23 13:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 00:22
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	428311	UCD3	ELLE	10/06/23 21:21

Client Sample ID: Ag-Vg4-082423

Lab Sample ID: 410-141095-7

Date Collected: 08/24/23 13:30

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 00:35
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	427758	UCD3	ELLE	10/05/23 20:32

Client Sample ID: Ag-Vg5-082423

Lab Sample ID: 410-141095-8

Date Collected: 08/24/23 13:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 00:48
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	427758	UCD3	ELLE	10/05/23 21:11

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg6-082423

Lab Sample ID: 410-141095-9

Date Collected: 08/24/23 13:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 01:01
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	428311	UCD3	ELLE	10/06/23 21:34

Client Sample ID: Ag-Vg7-082423

Lab Sample ID: 410-141095-10

Date Collected: 08/24/23 13:45

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 01:14
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	428311	UCD3	ELLE	10/06/23 21:47

Client Sample ID: Ag-Vg8-082423

Lab Sample ID: 410-141095-11

Date Collected: 08/24/23 13:50

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 01:27
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	428311	UCD3	ELLE	10/06/23 22:00

Client Sample ID: Ag-Fr3-082423

Lab Sample ID: 410-141095-12

Date Collected: 08/24/23 13:55

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 20:35
Total/NA	Prep	FDA	RA		416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot	RA		416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA	RA	1	427239	VK3G	ELLE	10/04/23 15:18

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: X2-082423

Lab Sample ID: 410-141095-13

Date Collected: 08/24/23 00:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 01:40
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	427758	UCD3	ELLE	10/05/23 22:03

Client Sample ID: Ag-Fr4-082423

Lab Sample ID: 410-141095-14

Date Collected: 08/24/23 10:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 20:47

Client Sample ID: Ag-Fr5-082423

Lab Sample ID: 410-141095-15

Date Collected: 08/24/23 10:35

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 20:59

Client Sample ID: Ag-Fr6-082423

Lab Sample ID: 410-141095-16

Date Collected: 08/24/23 10:40

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 21:11

Client Sample ID: Ag-Vg9-082423

Lab Sample ID: 410-141095-17

Date Collected: 08/24/23 10:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 02:45
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420723	BX2W	ELLE	09/18/23 14:41
Total/NA	Analysis	1633	DL	10	427758	UCD3	ELLE	10/05/23 22:16

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg10-082423

Lab Sample ID: 410-141095-18

Date Collected: 08/24/23 15:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 04:16
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 11:27

Client Sample ID: Ag-Vg11-082423

Lab Sample ID: 410-141095-19

Date Collected: 08/24/23 15:05

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 03:50
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 11:40

Client Sample ID: Ag-Vg12-082423

Lab Sample ID: 410-141095-20

Date Collected: 08/24/23 15:10

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 04:03
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 11:53

Client Sample ID: Ag-Vg13-082423

Lab Sample ID: 410-141095-21

Date Collected: 08/24/23 15:15

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 04:29
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 12:06

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg14-082423

Lab Sample ID: 410-141095-22

Date Collected: 08/24/23 15:20

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 04:42
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 12:19

Client Sample ID: Ag-Vg15-082423

Lab Sample ID: 410-141095-23

Date Collected: 08/24/23 15:25

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 04:55
Total/NA	Cleanup	Homogenization	DL		419805	S7AC	ELLE	09/15/23 08:02
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 12:32

Client Sample ID: Ag-Fr7-082423

Lab Sample ID: 410-141095-24

Date Collected: 08/24/23 15:30

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 21:23

Client Sample ID: Ag-Vg16-082423

Lab Sample ID: 410-141095-25

Date Collected: 08/24/23 15:35

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 05:08
Total/NA	Cleanup	Homogenization	DL		419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 12:46

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg17-082423

Lab Sample ID: 410-141095-26

Date Collected: 08/24/23 15:40

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 05:21
Total/NA	Cleanup	Homogenization	DL		419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 12:59

Client Sample ID: X3-082423

Lab Sample ID: 410-141095-27

Date Collected: 08/24/23 00:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 06:00
Total/NA	Cleanup	Homogenization	DL		419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 13:12

Client Sample ID: Ag-Vg18-082423

Lab Sample ID: 410-141095-28

Date Collected: 08/24/23 13:00

Matrix: Tissue

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 06:39
Total/NA	Cleanup	Homogenization	DL		419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 14:04

Client Sample ID: Ag-Fr8-082423

Lab Sample ID: 410-141095-29

Date Collected: 08/24/23 13:15

Matrix: Food & Feed

Date Received: 08/31/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot			416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA		1	426737	DQV6	ELLE	10/03/23 21:35
Total/NA	Prep	FDA	RA		416373	D5VP	ELLE	09/06/23 09:10
Total/NA	Cleanup	Extract Aliquot	RA		416886	D5VP	ELLE	09/07/23 09:56
Total/NA	Analysis	537 IDA	RA	1	427239	VK3G	ELLE	10/04/23 15:30

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Client Sample ID: Ag-Vg19-082423
Date Collected: 08/24/23 13:10
Date Received: 08/31/23 10:15

Lab Sample ID: 410-141095-30
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake			420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633		1	426222	RPU6	ELLE	10/03/23 06:52
Total/NA	Cleanup	Homogenization	DL		419809	S7AC	ELLE	09/15/23 08:04
Total/NA	Prep	1633 Shake	DL		420715	BX2W	ELLE	09/18/23 14:23
Total/NA	Analysis	1633	DL	10	431781	UUV6	ELLE	10/16/23 14:17

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
1633	1633 Shake	Tissue	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	3:3 FTCA
1633	1633 Shake	Tissue	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633 Shake	Tissue	5:3 FTCA
1633	1633 Shake	Tissue	7:3 FTCA
1633	1633 Shake	Tissue	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
1633	1633 Shake	Tissue	HFPO-DA
1633	1633 Shake	Tissue	NEtFOSAA
1633	1633 Shake	Tissue	N-ethylperfluoro-1-octanesulfonamide
1633	1633 Shake	Tissue	NMeFOSA
1633	1633 Shake	Tissue	NMeFOSAA
1633	1633 Shake	Tissue	Perfluoro(4-methoxybutanoic acid)
1633	1633 Shake	Tissue	Perfluoro-3,6-dioxaheptanoic acid
1633	1633 Shake	Tissue	Perfluoro-3-methoxypropanoic acid
1633	1633 Shake	Tissue	Perfluorobutanesulfonic acid
1633	1633 Shake	Tissue	Perfluorobutanoic acid
1633	1633 Shake	Tissue	Perfluorodecanesulfonic acid
1633	1633 Shake	Tissue	Perfluorodecanoic acid
1633	1633 Shake	Tissue	Perfluorododecanesulfonic acid (PFDoS)
1633	1633 Shake	Tissue	Perfluorododecanoic acid
1633	1633 Shake	Tissue	Perfluoroheptanesulfonic acid
1633	1633 Shake	Tissue	Perfluoroheptanoic acid
1633	1633 Shake	Tissue	Perfluorohexanesulfonic acid
1633	1633 Shake	Tissue	Perfluorohexanoic acid
1633	1633 Shake	Tissue	Perfluorononanesulfonic acid
1633	1633 Shake	Tissue	Perfluorononanoic acid
1633	1633 Shake	Tissue	Perfluorooctanesulfonamide
1633	1633 Shake	Tissue	Perfluorooctanesulfonic acid
1633	1633 Shake	Tissue	Perfluorooctanoic acid
1633	1633 Shake	Tissue	Perfluoropentanesulfonic acid
1633	1633 Shake	Tissue	Perfluoropentanoic acid
1633	1633 Shake	Tissue	Perfluorotetradecanoic acid
1633	1633 Shake	Tissue	Perfluorotridecanoic acid
1633	1633 Shake	Tissue	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	PFEESA
537 IDA	FDA	Food & Feed	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
537 IDA	FDA	Food & Feed	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 IDA	FDA	Food & Feed	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
537 IDA	FDA	Food & Feed	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 IDA	FDA	Food & Feed	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
537 IDA	FDA	Food & Feed	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
537 IDA	FDA	Food & Feed	3:3 FTCA
537 IDA	FDA	Food & Feed	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 IDA	FDA	Food & Feed	5:3 FTCA
537 IDA	FDA	Food & Feed	7:3 FTCA
537 IDA	FDA	Food & Feed	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537 IDA	FDA	Food & Feed	HFPO-DA
537 IDA	FDA	Food & Feed	NEtFOSAA
537 IDA	FDA	Food & Feed	N-ethylperfluoro-1-octanesulfonamide
537 IDA	FDA	Food & Feed	NMeFOSA
537 IDA	FDA	Food & Feed	NMeFOSAA
537 IDA	FDA	Food & Feed	Perfluoro(4-methoxybutanoic acid)
537 IDA	FDA	Food & Feed	Perfluoro-3,6-dioxaheptanoic acid
537 IDA	FDA	Food & Feed	Perfluoro-3-methoxypropanoic acid
537 IDA	FDA	Food & Feed	Perfluorobutanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorobutanoic acid
537 IDA	FDA	Food & Feed	Perfluorodecanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorodecanoic acid
537 IDA	FDA	Food & Feed	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	FDA	Food & Feed	Perfluorododecanoic acid
537 IDA	FDA	Food & Feed	Perfluoroheptanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluoroheptanoic acid
537 IDA	FDA	Food & Feed	Perfluorohexanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorohexanoic acid
537 IDA	FDA	Food & Feed	Perfluorononanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorononanoic acid
537 IDA	FDA	Food & Feed	Perfluorooctanesulfonamide
537 IDA	FDA	Food & Feed	Perfluorooctanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorooctanoic acid
537 IDA	FDA	Food & Feed	Perfluoropentanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluoropentanoic acid
537 IDA	FDA	Food & Feed	Perfluorotetradecanoic acid
537 IDA	FDA	Food & Feed	Perfluorotridecanoic acid
537 IDA	FDA	Food & Feed	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
537 IDA	FDA	Food & Feed	PFEESA

Method Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
FDA	Shake Extraction with Ultrasonic Bath Extraction	None	ELLE
Homogenization	Preparation, Homogenization	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-141095-1	Ag-Fr1-082523	Food & Feed	08/25/23 10:30	08/31/23 10:15
410-141095-2	Ag-Fr2-082523	Food & Feed	08/25/23 10:30	08/31/23 10:15
410-141095-3	Ag-Vg1-082523	Tissue	08/25/23 10:30	08/31/23 10:15
410-141095-4	Ag-Vg2-082523	Tissue	08/25/23 10:15	08/31/23 10:15
410-141095-5	Ag-Fr3-082523	Food & Feed	08/25/23 10:00	08/31/23 10:15
410-141095-6	Ag-Vg3-082423	Tissue	08/24/23 13:30	08/31/23 10:15
410-141095-7	Ag-Vg4-082423	Tissue	08/24/23 13:30	08/31/23 10:15
410-141095-8	Ag-Vg5-082423	Tissue	08/24/23 13:35	08/31/23 10:15
410-141095-9	Ag-Vg6-082423	Tissue	08/24/23 13:40	08/31/23 10:15
410-141095-10	Ag-Vg7-082423	Tissue	08/24/23 13:45	08/31/23 10:15
410-141095-11	Ag-Vg8-082423	Tissue	08/24/23 13:50	08/31/23 10:15
410-141095-12	Ag-Fr3-082423	Food & Feed	08/24/23 13:55	08/31/23 10:15
410-141095-13	X2-082423	Tissue	08/24/23 00:00	08/31/23 10:15
410-141095-14	Ag-Fr4-082423	Food & Feed	08/24/23 10:30	08/31/23 10:15
410-141095-15	Ag-Fr5-082423	Food & Feed	08/24/23 10:35	08/31/23 10:15
410-141095-16	Ag-Fr6-082423	Food & Feed	08/24/23 10:40	08/31/23 10:15
410-141095-17	Ag-Vg9-082423	Tissue	08/24/23 10:15	08/31/23 10:15
410-141095-18	Ag-Vg10-082423	Tissue	08/24/23 15:00	08/31/23 10:15
410-141095-19	Ag-Vg11-082423	Tissue	08/24/23 15:05	08/31/23 10:15
410-141095-20	Ag-Vg12-082423	Tissue	08/24/23 15:10	08/31/23 10:15
410-141095-21	Ag-Vg13-082423	Tissue	08/24/23 15:15	08/31/23 10:15
410-141095-22	Ag-Vg14-082423	Tissue	08/24/23 15:20	08/31/23 10:15
410-141095-23	Ag-Vg15-082423	Tissue	08/24/23 15:25	08/31/23 10:15
410-141095-24	Ag-Fr7-082423	Food & Feed	08/24/23 15:30	08/31/23 10:15
410-141095-25	Ag-Vg16-082423	Tissue	08/24/23 15:35	08/31/23 10:15
410-141095-26	Ag-Vg17-082423	Tissue	08/24/23 15:40	08/31/23 10:15
410-141095-27	X3-082423	Tissue	08/24/23 00:00	08/31/23 10:15
410-141095-28	Ag-Vg18-082423	Tissue	08/24/23 13:00	08/31/23 10:15
410-141095-29	Ag-Fr8-082423	Food & Feed	08/24/23 13:15	08/31/23 10:15
410-141095-30	Ag-Vg19-082423	Tissue	08/24/23 13:10	08/31/23 10:15



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Environment
Albany
#224

Acct. # _____



410-141095 Chain of Custody

Chain of Custody

2

Client: Taconic						Matrix		Analyses Requested										For Lab Use Only				
Project Name/#: Phase 2b RI						Site ID #: 442047		Preservation and Filtration Codes										SF #: _____				
Project Manager: Jeff Mirarchi						P.O. #:												SCR #: _____				
Sampler: Taconic-J. Mirarchi						PWSID #:																
Phone #: 518.658.3202						Quote #:																
State where samples were collected: NY						For Compliance: Yes ☐ No ☒																
Sample Identification					Collection		Food- Agricultural Products	MS/MSD	Total # of Containers	PFAS EPA 1633/FDA											Preservation Codes	
Sample ID	Loc.	Type	Date	Time	Grab	Composite															H = HCl T = Thiosulfate	
Ag-Fr1-082523	Fr1	N	8/25/2023	1030	X																N = HNO ₃ B = NaOH	
Ag-Fr2-082523	Fr2	N	8/25/2023	1030	X																S = H ₂ SO ₄ P = H ₃ PO ₄	
Ag-Vg1-082523	Vg1	N	8/25/2023	1030	X																O = Other (Trizma)	
Ag-Vg2-082523	Vg2	N	8/25/2023	1015	X																F = Field Filtered (Trizma)	
Ag-Fr3-082523	Fr3	N	8/25/2023	1000	X																Remarks	
Ag-Vg3-082423	Vg3	N	8/24/2023	1330	X																Raspberry	
Ag-Vg4-082423	Vg4	N	8/24/2023	1330	X																Gooseberry	
Ag-Vg5-082423	Vg5	N	8/24/2023	1335	X																Wild Kale	
Ag-Vg6-082423	Vg6	N	8/24/2023	1340	X																Leeks	
Ag-Vg7-082423	Vg7	N	8/24/2023	1345	X																Apples	
Ag-Vg8-082423	Vg8	N	8/24/2023	1350	X																Beets	
Ag-Fr3-082523	Fr3	N	8/24/2023	1355	X												Beet Greens					
X2-082423		FD	8/24/2023		X												Squash-Spag.					
Turnaround Time Requested (TAT) (please check):						Standard ☒ Rush ☐		Relinquished by:		Date		Time		Received by:		Date		Time				
(Rush TAT is subject to laboratory approval and surcharges.)								[Signature]		8/30/23		1030		TIM Kroll		8-30-23		1030				
Date results are needed:								Relinquished by:		Date		Time		Received by:		Date		Time				
Rush results requested by (please check):						E-Mail ☐ Phone ☐		[Signature]		8-30-23		1500										
E-mail Address: jeffm@4taconic.com								Relinquished by:		Date		Time		Received by:		Date		Time				
Phone: 518 658 3202 ext 328								Relinquished by:		Date		Time		Received by:		Date		Time				
Data Package Options (please check if required)						Level 2 Cat B., EDD, pdf		Relinquished by:		Date		Time		Received by:		Date		Time				
Type I (Validation/non-CLP)						☐ MA MCP ☐		Relinquished by:		Date		Time		Received by:		Date		Time				
Type III (Reduced non-CLP)						☐ CT RCP ☐		Relinquished by:		Date		Time		Received by:		Date		Time				
Type VI (Raw Data Only)						☐ TX TRRP-13 ☐		Relinquished by:		Date		Time		Received by:		Date		Time				
NJ DKQP						☐ NYSDEC Category ☐ A or ☒ B		Relinquished by Commercial Carrier:		Date		Time		Received by:		Date		Time				
EDD Required? Yes ☒ No ☐						If yes, format: NYSDEC As Per Example		UPS _____ FedEx _____ Other _____		Date		Time		Received by:		Date		Time				
								[Signature]		8/30/23		1030		[Signature]		8/30/23		1030				

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Environmental Analysis Request/Chain of Custody

Lancaster Laboratories
Environmental

#224

Acct. # _____ Group # _____ Sample # _____

Client: Taconic						Matrix		Analyses Requested										For Lab Use Only							
Project Name/ #: Phase 2b RI				Site ID #: 442047		Food - Agricultural Products		Preservation and Filtration Codes										SF #: _____							
Project Manager: Jeff Mirarchi				P.O. #:														SCR #: _____							
Sampler: Taconic-J. Mirarchi				PWSID #:																					
Phone #: 518.658.3202				Quote #:																					
State where samples were collected: NY						For Compliance: Yes ☐ No ☒		MS/MSD		Total # of Containers		PFAS EPA 1631/FDA		Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other F = Field Filtered (Trizma)											
Sample Identification						Collection								Grab		Composite		Remarks							
Sample ID		Loc.	Type	Date	Time																				
Ag-Fr4-082423		Fr4	N	8/24/2023	1030	X				TP		1		X		Apples									
Ag-Fr5-082423		Fr5	N	8/24/2023	1035	X				TP		1		X		Pears									
Ag-Fr6-082423		Fr6	N	8/24/2023	1040	X				TP		1		X		Grapes									
Ag-Vg9-082423		Vg9	N	8/24/2023	1015	X				TP		1		X		Tomatoes									
Ag-Vg10-082423		Vg10	N	8/24/2023	1500	X				TP		1		X		Beans									
Ag-Vg11-082423		Vg11	N	8/24/2023	1505	X				TP		1		X		Tomatoes									
Ag-Vg12-082423		Vg12	N	8/24/2023	1510	X				TP		1		X		Garlic									
Ag-Vg13-082423		Vg13	N	8/24/2023	1515	X		X		TP		1		X		Potato									
Ag-Vg14-082423		Vg14	N	8/24/2023	1520	X				TP		1		X		Chard									
Ag-Vg15-082423		Vg15	N	8/24/2023	1525	X				TP		1		X		cucumber									
Ag-Fr7-082423		Fr7	N	8/24/2023	1530	X				TP		1		X		Apples									
Ag-Vg16-082423		Vg16	N	8/24/2023	1535	X				TP		1		X		Broccoli									
Ag-Vg17-082423		Vg17	N	8/24/2023	1540	X				TP		1		X		Squash									
X3-082423			FD	8/24/2023		X				TP		1		X											
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐						(Rush TAT is subject to laboratory approval and surcharges.)		Relinquished by: <i>[Signature]</i>		Date: 8-30-23		Time: 1030		Received by: <i>[Signature]</i>		Date: 8-30-23		Time: 1030							
Date results are needed:								Relinquished by: <i>[Signature]</i>		Date: 9-30-23		Time: 1500		Received by: <i>[Signature]</i>		Date:		Time:							
Rush results requested by (please check): E-Mail ☐ Phone ☐								Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
E-mail Address: jeffm@4taconic.com								Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
Phone: 518.658.3202 ext 328								Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
Data Package Options (please check if required) Level 2 Cat B., EDD, pdf								Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
Type I (Validation/non-CLP)		☐		MA MCP		☐		Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
Type III (Reduced non-CLP)		☐		CT RCP		☐		Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
Type VI (Raw Data Only)		☐		TX TRRP-13		☐		Relinquished by: <i>[Signature]</i>		Date:		Time:		Received by:		Date:		Time:							
NJ DKQP		☐		NYSDEC Category		☐ A or ☒ B		Relinquished by Commercial Carrier:		Date:		Time:		Received by:		Date:		Time:							
EDD Required? Yes ☒ No ☐						If yes, format: NYSDEC As Per Example		UPS ☐ FedEx ☐ Other ☐		Temperature upon receipt		°C		Raw 2.6 - COR 2.0		8/31/23		10/15							

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Environmental

Albany
#224

Environmental Analysis Request/Chain of Custody

Acct. # _____ Group # _____ Sample # _____

Client: Taconic						Matrix		Analyses Requested										For Lab Use Only			
Project Name/ #: Phase 2b RI			Site ID #: 442047			Food - Agricultural Products		Preservation and Filtration Codes										SF #: _____			
Project Manager: Jeff Mirarchi			P.O. #:															SCR #: _____			
Sampler: Taconic-J. Mirarchi			PWSID #:																		
Phone #: 518.658.3202			Quote #:																		
State where samples were collected: NY						For Compliance: Yes ☐ No ☒		Total # of Containers												Preservation Codes	
Sample Identification						Collection														Grab	
Sample ID	Loc.	Type	Date	Time	Grab	Composite	Food - Agricultural Products	MS/MSD	PFAS EPA 1633/FDA											Remarks	
Ag-Vg18-082423	Vg17	N	8/24/2023	1300	X		TP		1	X							Rhubarb				
Ag-Fr8-082423	Fr8	N	8/24/2023	1315	X		TP		1	X							Blueberries				
Ag-Vg19-082423	Vg19	N	8/24/2023	1310	X		TP		1	X							Bee Balm				
~~Handwritten: TAC 8-30-23~~																					
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)																					
Date results are needed: _____																					
Rush results requested by (please check): E-Mail ☐ Phone ☐ E-mail Address: jeffm@4taconic.com Phone: 518.658.3202 ext 328																					
Data Package Options (please check if required) Level 2 Cat B., EDD, pdf Type I (Validation/non-CLP) ☐ MA MCP ☐ Type III (Reduced non-CLP) ☐ CT RCP ☐ Type VI (Raw Data Only) ☐ TX TRRP-13 ☐ NJ DKQP ☐ NYSDEC Category ☐ A or ☒ B EDD Required? Yes ☒ No ☐ If yes, format: NYSDEC AS Per Example																					
Relinquished by: <u>gmi</u> Date: <u>8/30/23</u> Time: <u>1506</u> Received by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1030</u>																					
Relinquished by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1506</u> Received by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1506</u>																					
Relinquished by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1506</u> Received by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1506</u>																					
Relinquished by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1506</u> Received by: <u>Tim Knick</u> Date: <u>8/30/23</u> Time: <u>1506</u>																					
Relinquished by Commercial Carrier: UPS ☐ FedEx ☐ Other ☐ Temperature upon receipt: <u>Raw 2.6 - COR. 2.6</u>																					

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7045 0717

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-141095-1

Login Number: 141095

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Ballard, Megan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No date or time on COC or containers.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date or time on COC or sample containers.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/5/2023 7:44:27 AM

JOB DESCRIPTION

Phase 2B RI

JOB NUMBER

410-145135-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/5/2023 7:44:27 AM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

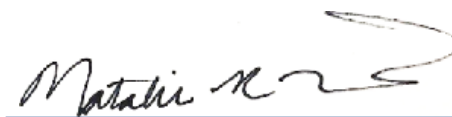


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.
α	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

Case Narrative

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Job ID: 410-145135-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-145135-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/29/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

PFAS

Method 1633: The recovery for a target analyte(s): Perfluorooctanoic acid in the laboratory control spike sample associated with the following sample: Ag-Eg3-092823 (410-145135-2) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

Method 1633: The recovery for labeled isotope: M2-8:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard, biased high. Since the recovery for the labeled isotope is within QC limits in the following samples: Ag-Eg3-092823 (410-145135-2) and (410-145135-A-2-E DU), the data is reported.

Method 1633: The recovery for target analyte: 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) is not detected in the following samples: Ag-Eg3-092823 (410-145135-2) and (410-145135-A-2-E DU), the data is reported.

Method 1633: Extracted internal standard (EIS) recoveries were outside QC acceptance criteria in sample Ag-Eg4-092823 (410-145135-3). A 10-fold dilution of the sample extract was analyzed, and the signal to noise was greater than 10:1 for the EIS, and the data is reported.

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

Detection Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Sy2-09823

Lab Sample ID: 410-145135-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PFEESA	0.048	J	0.060	0.020	ng/g	1		537 IDA	Total/NA

Client Sample ID: Ag-Eg3-092823

Lab Sample ID: 410-145135-2

No Detections.

Client Sample ID: Ag-Eg4-092823

Lab Sample ID: 410-145135-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.29	J F1 cn	0.50	0.15	ng/g	1		1633	Total/NA
Perfluorodecanoic acid	0.33	J cn	0.50	0.22	ng/g	1		1633	Total/NA
Perfluoroundecanoic acid	0.32	J cn	0.50	0.13	ng/g	1		1633	Total/NA
Perfluorotridecanoic acid	0.26	J cn	0.50	0.080	ng/g	1		1633	Total/NA
Perfluorooctanesulfonic acid	3.5	cn	0.50	0.12	ng/g	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Sy2-09823

Lab Sample ID: 410-145135-1

Date Collected: 09/28/23 09:25

Matrix: Food & Feed

Date Received: 09/29/23 09:45

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		10/10/23 08:46	10/16/23 22:02	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		10/10/23 08:46	10/16/23 22:02	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		10/10/23 08:46	10/16/23 22:02	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
HFPO-DA	ND		0.20	0.099	ng/g		10/10/23 08:46	10/16/23 22:02	1
NEtFOSAA	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 22:02	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 22:02	1
NMeFOSAA	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
NMeFOSA	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 22:02	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorobutanoic acid	ND		0.20	0.079	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
PFEESA	0.048	J	0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
3:3 FTCA	ND	*+	0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
7:3 FTCA	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
5:3 FTCA	ND	*+	0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 22:02	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Sy2-09823

Lab Sample ID: 410-145135-1

Date Collected: 09/28/23 09:25

Matrix: Food & Feed

Date Received: 09/29/23 09:45

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	113		10 - 200	10/10/23 08:46	10/16/23 22:02	1
M2-6:2 FTS	70		10 - 200	10/10/23 08:46	10/16/23 22:02	1
M2-8:2 FTS	69		15 - 200	10/10/23 08:46	10/16/23 22:02	1
13C2 PFTeDA	85		10 - 169	10/10/23 08:46	10/16/23 22:02	1
13C3 HFPO-DA	62		10 - 169	10/10/23 08:46	10/16/23 22:02	1
13C3 PFBS	101		27 - 179	10/10/23 08:46	10/16/23 22:02	1
13C4 PFBA	60		28 - 153	10/10/23 08:46	10/16/23 22:02	1
13C4 PFHpA	71		10 - 178	10/10/23 08:46	10/16/23 22:02	1
13C5 PFPeA	74		24 - 161	10/10/23 08:46	10/16/23 22:02	1
13C8 PFOA	71		26 - 159	10/10/23 08:46	10/16/23 22:02	1
13C8 PFOS	89		41 - 154	10/10/23 08:46	10/16/23 22:02	1
d3-NMeFOSAA	90		10 - 178	10/10/23 08:46	10/16/23 22:02	1
d5-NEtFOSAA	91		10 - 193	10/10/23 08:46	10/16/23 22:02	1
d7-N-MeFOSE-M	80		10 - 179	10/10/23 08:46	10/16/23 22:02	1
d9-N-EtFOSE-M	75		10 - 185	10/10/23 08:46	10/16/23 22:02	1
13C3 PFHxS	94		24 - 171	10/10/23 08:46	10/16/23 22:02	1
13C5 PFHxA	70		10 - 174	10/10/23 08:46	10/16/23 22:02	1
13C6 PFDA	68		26 - 161	10/10/23 08:46	10/16/23 22:02	1
13C7 PFUnA	68		12 - 173	10/10/23 08:46	10/16/23 22:02	1
d3-NMePFOSA	74		10 - 175	10/10/23 08:46	10/16/23 22:02	1
d5-NEtPFOSA	72		10 - 180	10/10/23 08:46	10/16/23 22:02	1
13C8 FOSA	84		14 - 163	10/10/23 08:46	10/16/23 22:02	1
13C2-PFDODA	74		11 - 166	10/10/23 08:46	10/16/23 22:02	1
13C9 PFNA	67		26 - 165	10/10/23 08:46	10/16/23 22:02	1
13C-6:2 FTCA	88		10 - 200	10/10/23 08:46	10/16/23 22:02	1

Client Sample ID: Ag-Eg3-092823

Lab Sample ID: 410-145135-2

Date Collected: 09/28/23 06:30

Matrix: Tissue

Date Received: 09/29/23 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoropentanoic acid	ND		0.99	0.13	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorohexanoic acid	ND		0.49	0.16	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoroheptanoic acid	ND		0.49	0.12	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorooctanoic acid	ND	*+ cn	0.49	0.20	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorononanoic acid	ND		0.49	0.15	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorodecanoic acid	ND		0.49	0.21	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoroundecanoic acid	ND		0.49	0.13	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorododecanoic acid	ND		0.49	0.078	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorotridecanoic acid	ND		0.49	0.079	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorotetradecanoic acid	ND		0.49	0.10	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorobutanesulfonic acid	ND		0.49	0.17	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoropentanesulfonic acid	ND		0.49	0.091	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorohexanesulfonic acid	ND		0.49	0.076	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoroheptanesulfonic acid	ND		0.49	0.12	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorooctanesulfonic acid	ND		0.49	0.12	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorononanesulfonic acid	ND		0.49	0.091	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorodecanesulfonic acid	ND		0.49	0.20	ng/g		11/10/23 13:35	11/21/23 21:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Eg3-092823

Lab Sample ID: 410-145135-2

Date Collected: 09/28/23 06:30

Matrix: Tissue

Date Received: 09/29/23 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.49	0.11	ng/g		11/10/23 13:35	11/21/23 21:27	1
1H,1H,2H,2H-perfluorododecanesulfonic acid (8:2)	ND		2.0	0.67	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluorooctanesulfonamide	ND		0.49	0.093	ng/g		11/10/23 13:35	11/21/23 21:27	1
NMeFOSA	ND		0.49	0.074	ng/g		11/10/23 13:35	11/21/23 21:27	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.49	0.10	ng/g		11/10/23 13:35	11/21/23 21:27	1
NMeFOSAA	ND		0.49	0.21	ng/g		11/10/23 13:35	11/21/23 21:27	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	0.67	ng/g		11/10/23 13:35	11/21/23 21:27	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		4.9	1.8	ng/g		11/10/23 13:35	11/21/23 21:27	1
HFPO-DA	ND		2.0	0.26	ng/g		11/10/23 13:35	11/21/23 21:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	2.0	0.39	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoro-3-methoxypropanoic acid	ND		0.99	0.12	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoro(4-methoxybutanoic acid)	ND		0.99	0.20	ng/g		11/10/23 13:35	11/21/23 21:27	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.99	0.38	ng/g		11/10/23 13:35	11/21/23 21:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.25	ng/g		11/10/23 13:35	11/21/23 21:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		11/10/23 13:35	11/21/23 21:27	1
PFEESA	ND		0.99	0.23	ng/g		11/10/23 13:35	11/21/23 21:27	1
3:3 FTCA	ND		2.5	0.71	ng/g		11/10/23 13:35	11/21/23 21:27	1
5:3 FTCA	ND		12	2.1	ng/g		11/10/23 13:35	11/21/23 21:27	1
7:3 FTCA	ND		12	2.9	ng/g		11/10/23 13:35	11/21/23 21:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84.2		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C5 PFPeA	86.5		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C5 PFHxA	87.9		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C4 PFHpA	85.8		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C8 PFOA	102		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C9 PFNA	95.5		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C6 PFDA	98.3		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C7 PFUnA	65.7		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C2-PFDoDA	54.9		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C2 PFTeDA	24.5		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C3 PFBS	82.7		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C3 PFHxS	101		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C8 PFOS	81.9		20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C8 FOSA	43.3		20 - 150	11/10/23 13:35	11/21/23 21:27	1
d3-NMeFOSAA	143		20 - 150	11/10/23 13:35	11/21/23 21:27	1
M2-8:2 FTS	141	cn	20 - 150	11/10/23 13:35	11/21/23 21:27	1
13C3 HFPO-DA	72.5		20 - 150	11/10/23 13:35	11/21/23 21:27	1
d7-N-MeFOSE-M	68.0		20 - 150	11/10/23 13:35	11/21/23 21:27	1
d9-N-EtFOSE-M	48.1		20 - 150	11/10/23 13:35	11/21/23 21:27	1
d5-NEtPFOSA	41.1		20 - 150	11/10/23 13:35	11/21/23 21:27	1
d3-NMePFOSA	73.3		20 - 150	11/10/23 13:35	11/21/23 21:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Eg3-092823

Lab Sample ID: 410-145135-2

Date Collected: 09/28/23 06:30

Matrix: Tissue

Date Received: 09/29/23 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		20	5.5	ng/g		11/10/23 13:35	11/30/23 15:27	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		30	14	ng/g		11/10/23 13:35	11/30/23 15:27	10
NEtFOSAA	ND		4.9	1.7	ng/g		11/10/23 13:35	11/30/23 15:27	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	53.6		20 - 150				11/10/23 13:35	11/30/23 15:27	10
M2-4:2 FTS	53.1		20 - 150				11/10/23 13:35	11/30/23 15:27	10
M2-6:2 FTS	54.7		20 - 150				11/10/23 13:35	11/30/23 15:27	10

Client Sample ID: Ag-Eg4-092823

Lab Sample ID: 410-145135-3

Date Collected: 09/28/23 09:40

Matrix: Tissue

Date Received: 09/29/23 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	cn	2.0	0.36	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoropentanoic acid	ND	cn	1.0	0.13	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorohexanoic acid	ND	cn	0.50	0.17	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoroheptanoic acid	ND	cn	0.50	0.12	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorooctanoic acid	ND	F1 *+ cn	0.50	0.20	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorononanoic acid	0.29	J F1 cn	0.50	0.15	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorodecanoic acid	0.33	J cn	0.50	0.22	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoroundecanoic acid	0.32	J cn	0.50	0.13	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorododecanoic acid	ND	cn	0.50	0.079	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorotridecanoic acid	0.26	J cn	0.50	0.080	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorotetradecanoic acid	ND	cn	0.50	0.11	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorobutanesulfonic acid	ND	F1 cn	0.50	0.17	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoropentanesulfonic acid	ND	cn	0.50	0.092	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorohexanesulfonic acid	ND	cn	0.50	0.077	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoroheptanesulfonic acid	ND	F1 cn	0.50	0.12	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorooctanesulfonic acid	3.5	cn	0.50	0.12	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorononanesulfonic acid	ND	cn	0.50	0.092	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorodecanesulfonic acid	ND	F1 cn	0.50	0.20	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND	F1 cn	0.50	0.11	ng/g		11/10/23 13:35	11/21/23 21:53	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	cn	2.0	0.68	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluorooctanesulfonamide	ND	cn	0.50	0.094	ng/g		11/10/23 13:35	11/21/23 21:53	1
NMeFOSA	ND	cn	0.50	0.075	ng/g		11/10/23 13:35	11/21/23 21:53	1
N-ethylperfluoro-1-octanesulfonamide	ND	cn	0.50	0.10	ng/g		11/10/23 13:35	11/21/23 21:53	1
NMeFOSAA	ND	cn	0.50	0.21	ng/g		11/10/23 13:35	11/21/23 21:53	1
NEtFOSAA	ND	cn	0.50	0.17	ng/g		11/10/23 13:35	11/21/23 21:53	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	cn	5.0	0.68	ng/g		11/10/23 13:35	11/21/23 21:53	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	cn	5.0	1.9	ng/g		11/10/23 13:35	11/21/23 21:53	1
HFPO-DA	ND	cn	2.0	0.26	ng/g		11/10/23 13:35	11/21/23 21:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	F1 cn	2.0	0.40	ng/g		11/10/23 13:35	11/21/23 21:53	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Eg4-092823

Lab Sample ID: 410-145135-3

Date Collected: 09/28/23 09:40

Matrix: Tissue

Date Received: 09/29/23 09:45

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid	ND	F2 F1 cn	1.0	0.12	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoro(4-methoxybutanoic acid)	ND	F2 F1 cn	1.0	0.20	ng/g		11/10/23 13:35	11/21/23 21:53	1
Perfluoro-3,6-dioxahexanoic acid	ND	cn	1.0	0.39	ng/g		11/10/23 13:35	11/21/23 21:53	1
9-Chlorohexadecafluoro-3-oxanonan	ND	cn	2.0	0.26	ng/g		11/10/23 13:35	11/21/23 21:53	1
e-1-sulfonic acid									
11-Chloroeicosafluoro-3-oxaundecan	ND	cn	2.0	0.25	ng/g		11/10/23 13:35	11/21/23 21:53	1
e-1-sulfonic acid									
PFEESA	ND	cn	1.0	0.23	ng/g		11/10/23 13:35	11/21/23 21:53	1
3:3 FTCA	ND	F2 cn	2.5	0.72	ng/g		11/10/23 13:35	11/21/23 21:53	1
5:3 FTCA	ND	cn	13	2.1	ng/g		11/10/23 13:35	11/21/23 21:53	1
7:3 FTCA	ND	cn	13	3.0	ng/g		11/10/23 13:35	11/21/23 21:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99.0	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C5 PFPeA	87.0	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C5 PFHxA	90.3	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C4 PFHpA	90.0	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C8 PFOA	97.9	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C9 PFNA	93.2	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C6 PFDA	87.8	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C7 PFUnA	74.9	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C2-PFDoDA	41.8	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C2 PFTeDA	9.91	*5- cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C3 PFBS	80.6	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C3 PFHxS	83.9	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C8 PFOS	74.1	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C8 FOSA	42.1	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
d3-NMeFOSAA	147	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
d5-NEtFOSAA	141	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
M2-8:2 FTS	98.3	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
13C3 HFPO-DA	56.1	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
d7-N-MeFOSE-M	62.6	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
d9-N-EtFOSE-M	42.6	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
d5-NEtPFOSA	36.2	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1
d3-NMePFOSA	59.6	cn	20 - 150	11/10/23 13:35	11/21/23 21:53	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	cn	20	5.6	ng/g		11/10/23 13:35	11/30/23 15:53	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	cn	30	14	ng/g		11/10/23 13:35	11/30/23 15:53	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	95.7	cn	20 - 150				11/10/23 13:35	11/30/23 15:53	10
M2-6:2 FTS	76.1	cn	20 - 150				11/10/23 13:35	11/30/23 15:53	10

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-145135-2	Ag-Eg3-092823	84.2	86.5	87.9	85.8	102	95.5	98.3	65.7
410-145135-2 DU	Ag-Eg3-092823	96.6	88.3	95.8	87.9	113	109	93.2	68.4
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-145135-2	Ag-Eg3-092823	54.9	24.5	82.7	101	81.9	43.3	143	
410-145135-2 DU	Ag-Eg3-092823	50.5		86.9	93.0	83.7	42.8		
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)		
410-145135-2	Ag-Eg3-092823	141 cn	72.5	68.0	48.1	41.1	73.3		
410-145135-2 DU	Ag-Eg3-092823	122 cn	68.3	59.5	39.7	34.9	61.0		
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFDODA = 13C2-PFDODA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
C8PFOS = 13C8 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOS = d3-NMeFOSAA									
M282FTS = M2-8:2 FTS									
HFPODA = 13C3 HFPO-DA									
NMFM = d7-N-MeFOSE-M									
NEFM = d9-N-EtFOSE-M									
d5NPFSA = d5-NEtPFOSA									
d3NMFSA = d3-NMePFOSA									

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (20-150)	M242FTS (20-150)	M262FTS (20-150)
410-145135-2 - DL	Ag-Eg3-092823	53.6	53.1	54.7
Surrogate Legend				
d5NEFOS = d5-NEtFOSAA				
M242FTS = M2-4:2 FTS				
M262FTS = M2-6:2 FTS				

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)				
		PFTDA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)	M262FTS (20-150)
410-145135-2 DU - DL	Ag-Eg3-092823	8.87 *5-	81.0	81.5	92.9	71.4
Surrogate Legend						
PFTDA = 13C2 PFTeDA						
d3NMFOS = d3-NMeFOSAA						
d5NEFOS = d5-NEtFOSAA						
M242FTS = M2-4:2 FTS						
M262FTS = M2-6:2 FTS						

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
410-145135-3	Ag-Eg4-092823	99.0 cn	87.0 cn	90.3 cn	90.0 cn	97.9 cn	93.2 cn	87.8 cn	74.9 cn
LCS 410-442126/2-A	Lab Control Sample	85.0	87.8	91.2	90.4	82.3	88.5	90.7	88.8
LLCS 410-442126/3-A	Lab Control Sample	66.0	81.1	84.6	85.1	83.6	79.4	86.4	89.0
MB 410-442126/1-A	Method Blank	88.7	85.4	86.9	88.2	85.4	92.9	98.3	92.6
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDODA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-145135-3	Ag-Eg4-092823	41.8 cn	9.91 *5- cn	80.6 cn	83.9 cn	74.1 cn	42.1 cn	147 cn	141 cn
LCS 410-442126/2-A	Lab Control Sample	87.4	47.8	86.2	82.2	92.8	76.9	99.9	112
LLCS 410-442126/3-A	Lab Control Sample	87.2	46.2	88.6	89.2	91.6	82.1	99.6	118
MB 410-442126/1-A	Method Blank	88.6	48.5	87.4	88.9	93.6	71.7	104	115
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
410-145135-3	Ag-Eg4-092823			98.3 cn	56.1 cn	62.6 cn	42.6 cn	36.2 cn	59.6 cn
LCS 410-442126/2-A	Lab Control Sample	139	101	117	87.8	72.6	70.7	69.8	71.1
LLCS 410-442126/3-A	Lab Control Sample	131	115	129	78.8	71.1	67.9	68.6	73.1
MB 410-442126/1-A	Method Blank	143	131	130	80.8	72.2	71.2	70.4	69.5
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFDODA = 13C2-PFDODA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
C8PFOS = 13C8 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOS = d3-NMeFOSAA									

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-145135-1

Project/Site: Phase 2B RI

d5NEFOS = d5-NEtFOSAA

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = d3-NMePFOSA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Tissue

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)
410-145135-3 - DL	Ag-Eg4-092823	95.7 cn	76.1 cn

Surrogate Legend

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Food & Feed

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (10-200)	M262FTS (10-200)	M282FTS (15-200)	PFTDA (10-169)	HFPODA (10-169)	C3PFBS (27-179)	PFBA (28-153)	C4PFHA (10-178)
410-145135-1	Ag-Sy2-09823	113	70	69	85	62	101	60	71

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFPeA (24-161)	C8PFOA (26-159)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)	NMFM (10-179)	NEFM (10-185)	C3PFHS (24-171)
410-145135-1	Ag-Sy2-09823	74	71	89	90	91	80	75	94

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C5PHA (10-174)	C6PFDA (26-161)	13C7PUA (12-173)	d3NMFSA (10-175)	d5NPFSA (10-180)	PFOSA (14-163)	PFDODA (11-166)	C9PFNA (26-165)
410-145135-1	Ag-Sy2-09823	70	68	68	74	72	84	74	67

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	MFHEA (10-200)
410-145135-1	Ag-Sy2-09823	88

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

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

NMFM = d7-N-MeFOSE-M

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-145135-1

Project/Site: Phase 2B RI

NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSa = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA
MFHEA = 13C-6:2 FTCA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Food and Feed

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (10-200)	M262FTS (10-200)	M282FTS (15-200)	PFTDA (10-169)	HFPODA (10-169)	C3PFBS (27-179)	PFBA (28-153)	C4PFHA (10-178)
LCS 410-429405/2-B	Lab Control Sample	54	54	60	73	54	76	53	62
LCSD 410-429405/3-B	Lab Control Sample Dup	64	65	67	79	63	90	63	68
MB 410-429405/1-B	Method Blank	47	46	51	61	50	61	45	55

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFPeA (24-161)	C8PFOA (26-159)	C8PFOS (41-154)	d3NMFSa (10-178)	d5NEFOS (10-193)	NMFM (10-179)	NEFM (10-185)	C3PFHS (24-171)
LCS 410-429405/2-B	Lab Control Sample	53	62	80	89	90	82	75	75
LCSD 410-429405/3-B	Lab Control Sample Dup	64	70	92	96	100	91	81	97
MB 410-429405/1-B	Method Blank	46	53	68	75	76	65	60	74

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C5PHA (10-174)	C6PFDA (26-161)	13C7PUA (12-173)	d3NMFSa (10-175)	d5NPFSA (10-180)	PFOSA (14-163)	PFDoDA (11-166)	C9PFNA (26-165)
LCS 410-429405/2-B	Lab Control Sample	60	59	60	76	73	83	66	59
LCSD 410-429405/3-B	Lab Control Sample Dup	67	66	64	83	79	92	72	69
MB 410-429405/1-B	Method Blank	52	53	49	59	57	69	54	51

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	MFHEA (10-200)
LCS 410-429405/2-B	Lab Control Sample	88
LCSD 410-429405/3-B	Lab Control Sample Dup	100
MB 410-429405/1-B	Method Blank	75

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
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFSa = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Phase 2B RI
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA
MFHEA = 13C-6:2 FTCA

Job ID: 410-145135-1

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QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-442126/1-A

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 442126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.36	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoropentanoic acid	ND		1.0	0.13	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorohexanoic acid	ND		0.50	0.17	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoroheptanoic acid	ND		0.50	0.12	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorooctanoic acid	ND		0.50	0.20	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorononanoic acid	ND		0.50	0.15	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorodecanoic acid	ND		0.50	0.22	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoroundecanoic acid	ND		0.50	0.13	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorododecanoic acid	ND		0.50	0.079	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorotridecanoic acid	ND		0.50	0.080	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorotetradecanoic acid	ND		0.50	0.11	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorobutanesulfonic acid	ND		0.50	0.17	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoropentanesulfonic acid	ND		0.50	0.092	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorohexanesulfonic acid	ND		0.50	0.077	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoroheptanesulfonic acid	ND		0.50	0.12	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorooctanesulfonic acid	ND		0.50	0.12	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorononanesulfonic acid	ND		0.50	0.092	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorodecanesulfonic acid	ND		0.50	0.20	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.50	0.11	ng/g		11/10/23 13:35	11/30/23 14:48	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		2.0	0.56	ng/g		11/10/23 13:35	11/30/23 14:48	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		3.0	1.4	ng/g		11/10/23 13:35	11/30/23 14:48	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.68	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluorooctanesulfonamide	ND		0.50	0.094	ng/g		11/10/23 13:35	11/30/23 14:48	1
NMeFOSA	ND		0.50	0.075	ng/g		11/10/23 13:35	11/30/23 14:48	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.50	0.10	ng/g		11/10/23 13:35	11/30/23 14:48	1
NMeFOSAA	ND		0.50	0.21	ng/g		11/10/23 13:35	11/30/23 14:48	1
NEtFOSAA	ND		0.50	0.17	ng/g		11/10/23 13:35	11/30/23 14:48	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	0.68	ng/g		11/10/23 13:35	11/30/23 14:48	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		5.0	1.9	ng/g		11/10/23 13:35	11/30/23 14:48	1
HFPO-DA	ND		2.0	0.26	ng/g		11/10/23 13:35	11/30/23 14:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.40	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoro-3-methoxypropanoic acid	ND		1.0	0.12	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoro(4-methoxybutanoic acid)	ND		1.0	0.20	ng/g		11/10/23 13:35	11/30/23 14:48	1
Perfluoro-3,6-dioxaheptanoic acid	ND		1.0	0.39	ng/g		11/10/23 13:35	11/30/23 14:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.26	ng/g		11/10/23 13:35	11/30/23 14:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.25	ng/g		11/10/23 13:35	11/30/23 14:48	1
PFEESA	ND		1.0	0.23	ng/g		11/10/23 13:35	11/30/23 14:48	1
3:3 FTCA	ND		2.5	0.72	ng/g		11/10/23 13:35	11/30/23 14:48	1
5:3 FTCA	ND		13	2.1	ng/g		11/10/23 13:35	11/30/23 14:48	1
7:3 FTCA	ND		13	3.0	ng/g		11/10/23 13:35	11/30/23 14:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	88.7		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C5 PFPeA	85.4		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C5 PFHxA	86.9		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C4 PFHpA	88.2		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C8 PFOA	85.4		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C9 PFNA	92.9		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C6 PFDA	98.3		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C7 PFUnA	92.6		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C2-PFDoDA	88.6		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C2 PFTeDA	48.5		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C3 PFBS	87.4		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C3 PFHxS	88.9		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C8 PFOS	93.6		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C8 FOSA	71.7		20 - 150	11/10/23 13:35	11/30/23 14:48	1
d3-NMeFOSAA	104		20 - 150	11/10/23 13:35	11/30/23 14:48	1
d5-NEtFOSAA	115		20 - 150	11/10/23 13:35	11/30/23 14:48	1
M2-4:2 FTS	143		20 - 150	11/10/23 13:35	11/30/23 14:48	1
M2-6:2 FTS	131		20 - 150	11/10/23 13:35	11/30/23 14:48	1
M2-8:2 FTS	130		20 - 150	11/10/23 13:35	11/30/23 14:48	1
13C3 HFPO-DA	80.8		20 - 150	11/10/23 13:35	11/30/23 14:48	1
d7-N-MeFOSE-M	72.2		20 - 150	11/10/23 13:35	11/30/23 14:48	1
d9-N-EtFOSE-M	71.2		20 - 150	11/10/23 13:35	11/30/23 14:48	1
d5-NEtPFOSA	70.4		20 - 150	11/10/23 13:35	11/30/23 14:48	1
d3-NMePFOSA	69.5		20 - 150	11/10/23 13:35	11/30/23 14:48	1

Lab Sample ID: LCS 410-442126/2-A

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid	25.0	26.7		ng/g		107	40 - 150
Perfluoropentanoic acid	12.5	14.7		ng/g		118	40 - 150
Perfluorohexanoic acid	6.26	6.85		ng/g		109	40 - 150
Perfluoroheptanoic acid	6.26	7.50		ng/g		120	40 - 150
Perfluorooctanoic acid	6.26	9.62	*+	ng/g		154	40 - 150
Perfluorononanoic acid	6.26	8.49		ng/g		136	40 - 150
Perfluorodecanoic acid	6.26	7.03		ng/g		112	40 - 150
Perfluoroundecanoic acid	6.26	7.10		ng/g		113	40 - 150
Perfluorododecanoic acid	6.26	7.08		ng/g		113	40 - 150
Perfluorotridecanoic acid	6.26	7.22		ng/g		115	40 - 150
Perfluorotetradecanoic acid	6.26	7.12		ng/g		114	40 - 150
Perfluorobutanesulfonic acid	5.55	6.12		ng/g		110	40 - 150
Perfluoropentanesulfonic acid	5.89	6.93		ng/g		118	40 - 150
Perfluorohexanesulfonic acid	5.72	6.36		ng/g		111	40 - 150
Perfluoroheptanesulfonic acid	5.97	5.98		ng/g		100	40 - 150
Perfluorooctanesulfonic acid	5.81	6.14		ng/g		106	40 - 150
Perfluorononanesulfonic acid	6.02	6.21		ng/g		103	40 - 150
Perfluorodecanesulfonic acid	6.04	3.86		ng/g		64	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	6.07	4.21		ng/g		69	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	23.5	22.5		ng/g		96	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-442126/2-A

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	23.8	28.4		ng/g		119	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	24.0	26.6		ng/g		111	40 - 150
Perfluorooctanesulfonamide	6.26	6.27		ng/g		100	40 - 150
NMeFOSA	6.26	6.33		ng/g		101	40 - 150
N-ethylperfluoro-1-octanesulfonamide	6.26	6.16		ng/g		98	40 - 150
NMeFOSAA	6.26	7.26		ng/g		116	40 - 150
NEtFOSAA	6.26	7.38		ng/g		118	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	62.6	52.5		ng/g		84	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	62.6	44.2		ng/g		71	40 - 150
HFPO-DA	25.0	28.6		ng/g		114	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	23.0		ng/g		98	40 - 150
Perfluoro-3-methoxypropanoic acid	12.5	13.9		ng/g		111	40 - 150
Perfluoro(4-methoxybutanoic acid)	12.5	13.1		ng/g		105	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	12.5	13.4		ng/g		107	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	23.3	22.2		ng/g		95	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	23.6	22.9		ng/g		97	40 - 150
PFEESA	11.1	12.2		ng/g		110	40 - 150
3:3 FTCA	31.3	36.2		ng/g		116	40 - 150
5:3 FTCA	156	162		ng/g		104	40 - 150
7:3 FTCA	156	166		ng/g		106	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	85.0		20 - 150
13C5 PFPeA	87.8		20 - 150
13C5 PFHxA	91.2		20 - 150
13C4 PFHpA	90.4		20 - 150
13C8 PFOA	82.3		20 - 150
13C9 PFNA	88.5		20 - 150
13C6 PFDA	90.7		20 - 150
13C7 PFUnA	88.8		20 - 150
13C2-PFDoDA	87.4		20 - 150
13C2 PFTeDA	47.8		20 - 150
13C3 PFBS	86.2		20 - 150
13C3 PFHxS	82.2		20 - 150
13C8 PFOS	92.8		20 - 150
13C8 FOSA	76.9		20 - 150
d3-NMeFOSAA	99.9		20 - 150
d5-NEtFOSAA	112		20 - 150
M2-4:2 FTS	139		20 - 150

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QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-442126/2-A

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 442126

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	101		20 - 150
M2-8:2 FTS	117		20 - 150
13C3 HFPO-DA	87.8		20 - 150
d7-N-MeFOSE-M	72.6		20 - 150
d9-N-EtFOSE-M	70.7		20 - 150
d5-NEtPFOSA	69.8		20 - 150
d3-NMePFOSA	71.1		20 - 150

Lab Sample ID: LLCS 410-442126/3-A

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	4.00	3.65		ng/g		91	40 - 150
Perfluoropentanoic acid	2.00	2.18		ng/g		109	40 - 150
Perfluorohexanoic acid	1.00	1.05		ng/g		105	40 - 150
Perfluoroheptanoic acid	1.00	1.03		ng/g		103	40 - 150
Perfluorooctanoic acid	1.00	1.35		ng/g		135	40 - 150
Perfluorononanoic acid	1.00	1.37		ng/g		137	40 - 150
Perfluorodecanoic acid	1.00	1.03		ng/g		103	40 - 150
Perfluoroundecanoic acid	1.00	1.00		ng/g		100	40 - 150
Perfluorododecanoic acid	1.00	1.00		ng/g		100	40 - 150
Perfluorotridecanoic acid	1.00	1.03		ng/g		103	40 - 150
Perfluorotetradecanoic acid	1.00	0.938		ng/g		94	40 - 150
Perfluorobutanesulfonic acid	0.887	0.900		ng/g		101	40 - 150
Perfluoropentanesulfonic acid	0.941	1.02		ng/g		108	40 - 150
Perfluorohexanesulfonic acid	0.914	0.900		ng/g		99	40 - 150
Perfluoroheptanesulfonic acid	0.953	0.877		ng/g		92	40 - 150
Perfluorooctanesulfonic acid	0.928	0.966		ng/g		104	40 - 150
Perfluorononanesulfonic acid	0.962	0.890		ng/g		92	40 - 150
Perfluorodecanesulfonic acid	0.965	0.575		ng/g		60	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.970	0.604		ng/g		62	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.75	3.91		ng/g		104	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.80	4.19		ng/g		110	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.84	3.76		ng/g		98	40 - 150
Perfluorooctanesulfonamide	1.00	0.893		ng/g		89	40 - 150
NMeFOSA	1.00	1.01		ng/g		101	40 - 150
N-ethylperfluoro-1-octanesulfonamide	1.00	0.964		ng/g		96	40 - 150
NMeFOSAA	1.00	1.01		ng/g		101	40 - 150
NEtFOSAA	1.00	0.991		ng/g		99	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	10.0	8.58		ng/g		86	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	10.0	7.22		ng/g		72	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-442126/3-A

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	4.00	3.59		ng/g		90	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.77	3.72		ng/g		99	40 - 150
Perfluoro-3-methoxypropanoic acid	2.00	1.98		ng/g		99	40 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	2.00		ng/g		100	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.75		ng/g		88	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.73	3.52		ng/g		94	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	3.77		ng/g		100	40 - 150
PFEESA	1.78	1.81		ng/g		102	40 - 150
3:3 FTCA	5.01	5.07		ng/g		101	40 - 150
5:3 FTCA	25.0	25.9		ng/g		103	40 - 150
7:3 FTCA	25.0	26.2		ng/g		105	40 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	66.0		20 - 150
13C5 PFPeA	81.1		20 - 150
13C5 PFHxA	84.6		20 - 150
13C4 PFHpA	85.1		20 - 150
13C8 PFOA	83.6		20 - 150
13C9 PFNA	79.4		20 - 150
13C6 PFDA	86.4		20 - 150
13C7 PFUnA	89.0		20 - 150
13C2-PFDoDA	87.2		20 - 150
13C2 PFTeDA	46.2		20 - 150
13C3 PFBS	88.6		20 - 150
13C3 PFHxS	89.2		20 - 150
13C8 PFOS	91.6		20 - 150
13C8 FOSA	82.1		20 - 150
d3-NMeFOSAA	99.6		20 - 150
d5-NEtFOSAA	118		20 - 150
M2-4:2 FTS	131		20 - 150
M2-6:2 FTS	115		20 - 150
M2-8:2 FTS	129		20 - 150
13C3 HFPO-DA	78.8		20 - 150
d7-N-MeFOSE-M	71.1		20 - 150
d9-N-EtFOSE-M	67.9		20 - 150
d5-NEtPFOSA	68.6		20 - 150
d3-NMePFOSA	73.1		20 - 150

Lab Sample ID: 410-145135-2 DU

Matrix: Tissue

Analysis Batch: 445768

Client Sample ID: Ag-Eg3-092823

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorobutanoic acid	ND		ND		ng/g		NC	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-145135-2 DU

Matrix: Tissue

Analysis Batch: 445768

Client Sample ID: Ag-Eg3-092823

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Perfluoropentanoic acid	ND		ND		ng/g		NC	30
Perfluorohexanoic acid	ND		ND		ng/g		NC	30
Perfluoroheptanoic acid	ND		ND		ng/g		NC	30
Perfluorooctanoic acid	ND	*+ cn	ND	*+	ng/g		NC	30
Perfluorononanoic acid	ND		ND		ng/g		NC	30
Perfluorodecanoic acid	ND		ND		ng/g		NC	30
Perfluoroundecanoic acid	ND		ND		ng/g		NC	30
Perfluorododecanoic acid	ND		0.452	J	ng/g		NC	30
Perfluorobutanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoropentanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorohexanesulfonic acid	ND		ND		ng/g		NC	30
Perfluoroheptanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorooctanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorononanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorodecanesulfonic acid	ND		ND		ng/g		NC	30
Perfluorododecanesulfonic acid	ND		ND		ng/g		NC	30
(PFDoS)								
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		ND		ng/g		NC	30
Perfluorooctanesulfonamide	ND		ND		ng/g		NC	30
NMeFOSA	ND		ND		ng/g		NC	30
N-ethylperfluoro-1-octanesulfonamide	ND		ND		ng/g		NC	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		ND		ng/g		NC	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		ND		ng/g		NC	30
HFPO-DA	ND		ND		ng/g		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	ND	cn	ng/g		NC	30
Perfluoro-3-methoxypropanoic acid	ND		ND		ng/g		NC	30
Perfluoro(4-methoxybutanoic acid)	ND		ND		ng/g		NC	30
Perfluoro-3,6-dioxaheptanoic acid	ND		ND		ng/g		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		ND		ng/g		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		ND		ng/g		NC	30
PFEESA	ND		ND		ng/g		NC	30
3:3 FTCA	ND		ND		ng/g		NC	30
5:3 FTCA	ND		ND		ng/g		NC	30
7:3 FTCA	ND		ND		ng/g		NC	30

Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	96.6		20 - 150
13C5 PFPeA	88.3		20 - 150
13C5 PFHxA	95.8		20 - 150
13C4 PFHpA	87.9		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-145135-2 DU

Matrix: Tissue

Analysis Batch: 445768

Client Sample ID: Ag-Eg3-092823

Prep Type: Total/NA

Prep Batch: 442126

Isotope Dilution	DU DU		Limits
	%Recovery	Qualifier	
13C8 PFOA	113		20 - 150
13C9 PFNA	109		20 - 150
13C6 PFDA	93.2		20 - 150
13C7 PFUnA	68.4		20 - 150
13C2-PFDoDA	50.5		20 - 150
13C3 PFBS	86.9		20 - 150
13C3 PFHxS	93.0		20 - 150
13C8 PFOS	83.7		20 - 150
13C8 FOSA	42.8		20 - 150
M2-8:2 FTS	122	cn	20 - 150
13C3 HFPO-DA	68.3		20 - 150
d7-N-MeFOSE-M	59.5		20 - 150
d9-N-EtFOSE-M	39.7		20 - 150
d5-NEtPFOSA	34.9		20 - 150
d3-NMePFOSA	61.0		20 - 150

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Lab Sample ID: 410-145135-2 DU

Matrix: Tissue

Analysis Batch: 448683

Client Sample ID: Ag-Eg3-092823

Prep Type: Total/NA

Prep Batch: 442126

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluorotridecanoic acid - DL	ND		ND		ng/g		NC	30
Perfluorotetradecanoic acid - DL	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2) - DL	ND		ND		ng/g		NC	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) - DL	ND		ND		ng/g		NC	30
NMeFOSAA - DL	ND		ND		ng/g		NC	30
NEtFOSAA - DL	ND		ND		ng/g		NC	30
Isotope Dilution	DU DU		Limits					
	%Recovery	Qualifier						
13C2 PFTeDA - DL	8.87	*5-	20 - 150					
d3-NMeFOSAA - DL	81.0		20 - 150					
d5-NEtFOSAA - DL	81.5		20 - 150					
M2-4:2 FTS - DL	92.9		20 - 150					
M2-6:2 FTS - DL	71.4		20 - 150					

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-429405/1-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 429405

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		0.20	0.060	ng/g		10/10/23 08:46	10/16/23 21:29	1

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QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-429405/1-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 429405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.20	0.060	ng/g		10/10/23 08:46	10/16/23 21:29	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.30	0.060	ng/g		10/10/23 08:46	10/16/23 21:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.30	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
HFPO-DA	ND		0.20	0.10	ng/g		10/10/23 08:46	10/16/23 21:29	1
NEtFOSAA	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
N-ethylperfluoro-1-octanesulfonamide	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 21:29	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 21:29	1
NMeFOSAA	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
NMeFOSA	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 21:29	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		0.20	0.050	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorobutanesulfonic acid	ND		0.20	0.040	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorobutanoic acid	ND		0.20	0.080	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorodecanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorodecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorododecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoroheptanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoroheptanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorohexanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorohexanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorononanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorononanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorooctanesulfonamide	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorooctanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorooctanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoropentanesulfonic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoropentanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorotetradecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluorotridecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoroundecanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
PFEESA	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
3:3 FTCA	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoro-3-methoxypropanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
7:3 FTCA	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
5:3 FTCA	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1
Perfluoro(4-methoxybutanoic acid)	ND		0.060	0.020	ng/g		10/10/23 08:46	10/16/23 21:29	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	47		10 - 200	10/10/23 08:46	10/16/23 21:29	1
M2-6:2 FTS	46		10 - 200	10/10/23 08:46	10/16/23 21:29	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-429405/1-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 429405

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-8:2 FTS	51		15 - 200	10/10/23 08:46	10/16/23 21:29	1
13C2 PFTeDA	61		10 - 169	10/10/23 08:46	10/16/23 21:29	1
13C3 HFPO-DA	50		10 - 169	10/10/23 08:46	10/16/23 21:29	1
13C3 PFBS	61		27 - 179	10/10/23 08:46	10/16/23 21:29	1
13C4 PFBA	45		28 - 153	10/10/23 08:46	10/16/23 21:29	1
13C4 PFHpA	55		10 - 178	10/10/23 08:46	10/16/23 21:29	1
13C5 PFPeA	46		24 - 161	10/10/23 08:46	10/16/23 21:29	1
13C8 PFOA	53		26 - 159	10/10/23 08:46	10/16/23 21:29	1
13C8 PFOS	68		41 - 154	10/10/23 08:46	10/16/23 21:29	1
d3-NMeFOSAA	75		10 - 178	10/10/23 08:46	10/16/23 21:29	1
d5-NEtFOSAA	76		10 - 193	10/10/23 08:46	10/16/23 21:29	1
d7-N-MeFOSE-M	65		10 - 179	10/10/23 08:46	10/16/23 21:29	1
d9-N-EtFOSE-M	60		10 - 185	10/10/23 08:46	10/16/23 21:29	1
13C3 PFHxS	74		24 - 171	10/10/23 08:46	10/16/23 21:29	1
13C5 PFHxA	52		10 - 174	10/10/23 08:46	10/16/23 21:29	1
13C6 PFDA	53		26 - 161	10/10/23 08:46	10/16/23 21:29	1
13C7 PFUnA	49		12 - 173	10/10/23 08:46	10/16/23 21:29	1
d3-NMePFOSA	59		10 - 175	10/10/23 08:46	10/16/23 21:29	1
d5-NEtPFOSA	57		10 - 180	10/10/23 08:46	10/16/23 21:29	1
13C8 FOSA	69		14 - 163	10/10/23 08:46	10/16/23 21:29	1
13C2-PFDoDA	54		11 - 166	10/10/23 08:46	10/16/23 21:29	1
13C9 PFNA	51		26 - 165	10/10/23 08:46	10/16/23 21:29	1
13C-6:2 FTCA	75		10 - 200	10/10/23 08:46	10/16/23 21:29	1

Lab Sample ID: LCS 410-429405/2-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 429405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.19	1.12		ng/g		94	55 - 135
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.20	1.10		ng/g		92	58 - 131
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.21	1.15		ng/g		95	59 - 135
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.23	1.03		ng/g		84	55 - 133
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.19	1.15		ng/g		97	62 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.21	1.08		ng/g		90	57 - 137
HFPO-DA	1.28	1.08		ng/g		84	49 - 135
NEtFOSAA	1.28	1.01		ng/g		79	57 - 127
N-ethylperfluoro-1-octanesulfonamide	1.28	1.06		ng/g		83	60 - 123
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.28	1.21		ng/g		94	60 - 126
NMeFOSAA	1.28	1.04		ng/g		81	60 - 134
NMeFOSA	1.28	1.12		ng/g		87	60 - 129

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-429405/2-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 429405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-	1.28	1.10		ng/g		86	60 - 130
(N-methylperfluoro-1-octanesulfonamido) ethanol							
Perfluorobutanesulfonic acid	1.13	1.03		ng/g		91	54 - 130
Perfluorobutanoic acid	1.28	1.14		ng/g		89	60 - 128
Perfluorodecanesulfonic acid	1.23	1.21		ng/g		98	57 - 132
Perfluorodecanoic acid	1.28	1.17		ng/g		91	56 - 133
Perfluorododecanesulfonic acid (PFDoS)	1.24	1.09		ng/g		88	38 - 145
Perfluorododecanoic acid	1.28	1.10		ng/g		86	60 - 135
Perfluoroheptanesulfonic acid	1.22	1.21		ng/g		99	59 - 132
Perfluoroheptanoic acid	1.28	1.14		ng/g		89	59 - 137
Perfluorohexanesulfonic acid	1.17	1.16		ng/g		99	59 - 129
Perfluorohexanoic acid	1.28	1.15		ng/g		90	59 - 132
Perfluorononanesulfonic acid	1.23	1.12		ng/g		91	60 - 132
Perfluorononanoic acid	1.28	1.16		ng/g		90	61 - 134
Perfluorooctanesulfonamide	1.28	1.18		ng/g		92	47 - 149
Perfluorooctanesulfonic acid	1.18	1.03		ng/g		87	61 - 126
Perfluorooctanoic acid	1.28	1.17		ng/g		91	59 - 131
Perfluoropentanesulfonic acid	1.20	1.18		ng/g		98	57 - 133
Perfluoropentanoic acid	1.28	1.25		ng/g		98	58 - 134
Perfluorotetradecanoic acid	1.28	1.08		ng/g		85	62 - 134
Perfluorotridecanoic acid	1.28	1.06		ng/g		83	53 - 143
Perfluoroundecanoic acid	1.28	1.15		ng/g		89	60 - 134
PFEESA	1.14	1.17		ng/g		103	70 - 130
3:3 FTCA	1.28	1.82	*+	ng/g		142	70 - 130
Perfluoro-3-methoxypropanoic acid	1.28	1.25		ng/g		98	70 - 130
7:3 FTCA	1.28	1.08		ng/g		84	70 - 130
Perfluoro-3,6-dioxahexanoic acid	1.28	0.926		ng/g		72	70 - 130
5:3 FTCA	1.28	1.70	*+	ng/g		133	70 - 130
Perfluoro(4-methoxybutanoic acid)	1.28	0.903		ng/g		71	70 - 130

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	54		10 - 200
M2-6:2 FTS	54		10 - 200
M2-8:2 FTS	60		15 - 200
13C2 PFTeDA	73		10 - 169
13C3 HFPO-DA	54		10 - 169
13C3 PFBS	76		27 - 179
13C4 PFBA	53		28 - 153
13C4 PFHpA	62		10 - 178
13C5 PFPeA	53		24 - 161
13C8 PFOA	62		26 - 159
13C8 PFOS	80		41 - 154
d3-NMeFOSAA	89		10 - 178
d5-NEtFOSAA	90		10 - 193
d7-N-MeFOSE-M	82		10 - 179

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-429405/2-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 429405

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	75		10 - 185
13C3 PFHxS	75		24 - 171
13C5 PFHxA	60		10 - 174
13C6 PFDA	59		26 - 161
13C7 PFUnA	60		12 - 173
d3-NMePFOSA	76		10 - 175
d5-NEtPFOSA	73		10 - 180
13C8 FOSA	83		14 - 163
13C2-PFDoDA	66		11 - 166
13C9 PFNA	59		26 - 165
13C-6:2 FTCA	88		10 - 200

Lab Sample ID: LCSD 410-429405/3-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 429405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.19	1.13		ng/g		95	55 - 135		1	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.20	1.07		ng/g		90	58 - 131		3	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.21	1.14		ng/g		94	59 - 135		1	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.23	1.09		ng/g		89	55 - 133		5	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.19	1.11		ng/g		94	62 - 130		3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.21	1.29		ng/g		107	57 - 137		17	30
HFPO-DA	1.28	1.02		ng/g		80	49 - 135		5	30
NEtFOSAA	1.28	1.02		ng/g		80	57 - 127		1	30
N-ethylperfluoro-1-octanesulfonamide	1.28	1.08		ng/g		84	60 - 123		1	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.28	1.18		ng/g		92	60 - 126		3	30
NMeFOSAA	1.28	1.06		ng/g		83	60 - 134		2	30
NMeFOSA	1.28	1.08		ng/g		85	60 - 129		3	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.28	1.06		ng/g		83	60 - 130		4	30
Perfluorobutanesulfonic acid	1.13	1.06		ng/g		94	54 - 130		3	30
Perfluorobutanoic acid	1.28	1.13		ng/g		88	60 - 128		1	30
Perfluorodecanesulfonic acid	1.23	1.22		ng/g		99	57 - 132		0	30
Perfluorodecanoic acid	1.28	1.15		ng/g		90	56 - 133		1	30
Perfluorododecanesulfonic acid (PFDoS)	1.24	1.12		ng/g		91	38 - 145		2	30
Perfluorododecanoic acid	1.28	1.14		ng/g		89	60 - 135		3	30
Perfluoroheptanesulfonic acid	1.22	1.01		ng/g		83	59 - 132		17	30
Perfluoroheptanoic acid	1.28	1.20		ng/g		94	59 - 137		5	30
Perfluorohexanesulfonic acid	1.17	1.01		ng/g		86	59 - 129		14	30
Perfluorohexanoic acid	1.28	1.14		ng/g		89	59 - 132		1	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-429405/3-B

Matrix: Food and Feed

Analysis Batch: 431776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 429405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorononanesulfonic acid	1.23	1.16		ng/g		95	60 - 132	4	30
Perfluorononanoic acid	1.28	1.21		ng/g		95	61 - 134	5	30
Perfluorooctanesulfonamide	1.28	1.20		ng/g		94	47 - 149	1	30
Perfluorooctanesulfonic acid	1.18	1.02		ng/g		86	61 - 126	2	30
Perfluorooctanoic acid	1.28	1.16		ng/g		91	59 - 131	1	30
Perfluoropentanesulfonic acid	1.20	1.18		ng/g		98	57 - 133	0	30
Perfluoropentanoic acid	1.28	1.20		ng/g		94	58 - 134	4	30
Perfluorotetradecanoic acid	1.28	1.09		ng/g		85	62 - 134	0	30
Perfluorotridecanoic acid	1.28	1.07		ng/g		83	53 - 143	1	30
Perfluoroundecanoic acid	1.28	1.19		ng/g		93	60 - 134	4	30
PFEESA	1.14	1.15		ng/g		101	70 - 130	1	30
3:3 FTCA	1.28	1.69	++	ng/g		132	70 - 130	7	30
Perfluoro-3-methoxypropanoic acid	1.28	1.19		ng/g		93	70 - 130	5	30
7:3 FTCA	1.28	1.00		ng/g		78	70 - 130	7	30
Perfluoro-3,6-dioxahexanoic acid	1.28	0.938		ng/g		73	70 - 130	1	30
5:3 FTCA	1.28	1.70	++	ng/g		132	70 - 130	0	30
Perfluoro(4-methoxybutanoic acid)	1.28	0.910		ng/g		71	70 - 130	1	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-4:2 FTS	64		10 - 200
M2-6:2 FTS	65		10 - 200
M2-8:2 FTS	67		15 - 200
13C2 PFTeDA	79		10 - 169
13C3 HFPO-DA	63		10 - 169
13C3 PFBS	90		27 - 179
13C4 PFBA	63		28 - 153
13C4 PFHpA	68		10 - 178
13C5 PFPeA	64		24 - 161
13C8 PFOA	70		26 - 159
13C8 PFOS	92		41 - 154
d3-NMeFOSAA	96		10 - 178
d5-NEtFOSAA	100		10 - 193
d7-N-MeFOSE-M	91		10 - 179
d9-N-EtFOSE-M	81		10 - 185
13C3 PFHxS	97		24 - 171
13C5 PFHxA	67		10 - 174
13C6 PFDA	66		26 - 161
13C7 PFUnA	64		12 - 173
d3-NMePFOSA	83		10 - 175
d5-NEtPFOSA	79		10 - 180
13C8 FOSA	92		14 - 163
13C2-PFDoDA	72		11 - 166
13C9 PFNA	69		26 - 165
13C-6:2 FTCA	100		10 - 200

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

LCMS

Prep Batch: 429405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-1	Ag-Sy2-09823	Total/NA	Food & Feed	FDA	
MB 410-429405/1-B	Method Blank	Total/NA	Food and Feed	FDA	
LCS 410-429405/2-B	Lab Control Sample	Total/NA	Food and Feed	FDA	
LCSD 410-429405/3-B	Lab Control Sample Dup	Total/NA	Food and Feed	FDA	

Cleanup Batch: 430799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-1	Ag-Sy2-09823	Total/NA	Food & Feed	Extract Aliquot	429405
MB 410-429405/1-B	Method Blank	Total/NA	Food and Feed	Extract Aliquot	429405
LCS 410-429405/2-B	Lab Control Sample	Total/NA	Food and Feed	Extract Aliquot	429405
LCSD 410-429405/3-B	Lab Control Sample Dup	Total/NA	Food and Feed	Extract Aliquot	429405

Analysis Batch: 431776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-1	Ag-Sy2-09823	Total/NA	Food & Feed	537 IDA	430799
MB 410-429405/1-B	Method Blank	Total/NA	Food and Feed	537 IDA	430799
LCS 410-429405/2-B	Lab Control Sample	Total/NA	Food and Feed	537 IDA	430799
LCSD 410-429405/3-B	Lab Control Sample Dup	Total/NA	Food and Feed	537 IDA	430799

Cleanup Batch: 440942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-2 - DL	Ag-Eg3-092823	Total/NA	Tissue	Homogenization	
410-145135-2	Ag-Eg3-092823	Total/NA	Tissue	Homogenization	
410-145135-3 - DL	Ag-Eg4-092823	Total/NA	Tissue	Homogenization	
410-145135-3	Ag-Eg4-092823	Total/NA	Tissue	Homogenization	
410-145135-2 DU - DL	Ag-Eg3-092823	Total/NA	Tissue	Homogenization	
410-145135-2 DU	Ag-Eg3-092823	Total/NA	Tissue	Homogenization	

Prep Batch: 442126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-2	Ag-Eg3-092823	Total/NA	Tissue	1633 Shake	440942
410-145135-2 - DL	Ag-Eg3-092823	Total/NA	Tissue	1633 Shake	440942
410-145135-3 - DL	Ag-Eg4-092823	Total/NA	Tissue	1633 Shake	440942
410-145135-3	Ag-Eg4-092823	Total/NA	Tissue	1633 Shake	440942
MB 410-442126/1-A	Method Blank	Total/NA	Tissue	1633 Shake	
LCS 410-442126/2-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
LLCS 410-442126/3-A	Lab Control Sample	Total/NA	Tissue	1633 Shake	
410-145135-2 DU - DL	Ag-Eg3-092823	Total/NA	Tissue	1633 Shake	440942
410-145135-2 DU	Ag-Eg3-092823	Total/NA	Tissue	1633 Shake	440942

Analysis Batch: 445768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-2	Ag-Eg3-092823	Total/NA	Tissue	1633	442126
410-145135-3	Ag-Eg4-092823	Total/NA	Tissue	1633	442126
410-145135-2 DU	Ag-Eg3-092823	Total/NA	Tissue	1633	442126

Analysis Batch: 448683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145135-2 - DL	Ag-Eg3-092823	Total/NA	Tissue	1633	442126
410-145135-3 - DL	Ag-Eg4-092823	Total/NA	Tissue	1633	442126
MB 410-442126/1-A	Method Blank	Total/NA	Tissue	1633	442126

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

LCMS (Continued)

Analysis Batch: 448683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-442126/2-A	Lab Control Sample	Total/NA	Tissue	1633	442126
LLCS 410-442126/3-A	Lab Control Sample	Total/NA	Tissue	1633	442126
410-145135-2 DU - DL	Ag-Eg3-092823	Total/NA	Tissue	1633	442126

Lab Chronicle

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Client Sample ID: Ag-Sy2-09823

Lab Sample ID: 410-145135-1

Date Collected: 09/28/23 09:25

Matrix: Food & Feed

Date Received: 09/29/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	FDA			429405	D5VP	ELLE	10/10/23 08:46
Total/NA	Cleanup	Extract Aliquot			430799	X5YV	ELLE	10/13/23 02:47
Total/NA	Analysis	537 IDA		1	431776	I5JH	ELLE	10/16/23 22:02

Client Sample ID: Ag-Eg3-092823

Lab Sample ID: 410-145135-2

Date Collected: 09/28/23 06:30

Matrix: Tissue

Date Received: 09/29/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			440942	Q5YX	ELLE	11/08/23 09:37
Total/NA	Prep	1633 Shake			442126	BX2W	ELLE	11/10/23 13:35
Total/NA	Analysis	1633		1	445768	BXK8	ELLE	11/21/23 21:27
Total/NA	Cleanup	Homogenization	DL		440942	Q5YX	ELLE	11/08/23 09:37
Total/NA	Prep	1633 Shake	DL		442126	BX2W	ELLE	11/10/23 13:35
Total/NA	Analysis	1633	DL	10	448683	KQ3F	ELLE	11/30/23 15:27

Client Sample ID: Ag-Eg4-092823

Lab Sample ID: 410-145135-3

Date Collected: 09/28/23 09:40

Matrix: Tissue

Date Received: 09/29/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Cleanup	Homogenization			440942	Q5YX	ELLE	11/08/23 09:37
Total/NA	Prep	1633 Shake			442126	BX2W	ELLE	11/10/23 13:35
Total/NA	Analysis	1633		1	445768	BXK8	ELLE	11/21/23 21:53
Total/NA	Cleanup	Homogenization	DL		440942	Q5YX	ELLE	11/08/23 09:37
Total/NA	Prep	1633 Shake	DL		442126	BX2W	ELLE	11/10/23 13:35
Total/NA	Analysis	1633	DL	10	448683	KQ3F	ELLE	11/30/23 15:53

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
1633	1633 Shake	Tissue	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
1633	1633 Shake	Tissue	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
1633	1633 Shake	Tissue	3:3 FTCA
1633	1633 Shake	Tissue	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633 Shake	Tissue	5:3 FTCA
1633	1633 Shake	Tissue	7:3 FTCA
1633	1633 Shake	Tissue	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
1633	1633 Shake	Tissue	HFPO-DA
1633	1633 Shake	Tissue	NEtFOSAA
1633	1633 Shake	Tissue	N-ethylperfluoro-1-octanesulfonamide
1633	1633 Shake	Tissue	NMeFOSA
1633	1633 Shake	Tissue	NMeFOSAA
1633	1633 Shake	Tissue	Perfluoro(4-methoxybutanoic acid)
1633	1633 Shake	Tissue	Perfluoro-3,6-dioxaheptanoic acid
1633	1633 Shake	Tissue	Perfluoro-3-methoxypropanoic acid
1633	1633 Shake	Tissue	Perfluorobutanesulfonic acid
1633	1633 Shake	Tissue	Perfluorobutanoic acid
1633	1633 Shake	Tissue	Perfluorodecanesulfonic acid
1633	1633 Shake	Tissue	Perfluorodecanoic acid
1633	1633 Shake	Tissue	Perfluorododecanesulfonic acid (PFDoS)
1633	1633 Shake	Tissue	Perfluorododecanoic acid
1633	1633 Shake	Tissue	Perfluoroheptanesulfonic acid
1633	1633 Shake	Tissue	Perfluoroheptanoic acid
1633	1633 Shake	Tissue	Perfluorohexanesulfonic acid
1633	1633 Shake	Tissue	Perfluorohexanoic acid
1633	1633 Shake	Tissue	Perfluorononanesulfonic acid
1633	1633 Shake	Tissue	Perfluorononanoic acid
1633	1633 Shake	Tissue	Perfluorooctanesulfonamide
1633	1633 Shake	Tissue	Perfluorooctanesulfonic acid
1633	1633 Shake	Tissue	Perfluorooctanoic acid
1633	1633 Shake	Tissue	Perfluoropentanesulfonic acid
1633	1633 Shake	Tissue	Perfluoropentanoic acid
1633	1633 Shake	Tissue	Perfluorotetradecanoic acid
1633	1633 Shake	Tissue	Perfluorotridecanoic acid
1633	1633 Shake	Tissue	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Tissue	PFEESA
537 IDA	FDA	Food & Feed	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
537 IDA	FDA	Food & Feed	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 IDA	FDA	Food & Feed	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
537 IDA	FDA	Food & Feed	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 IDA	FDA	Food & Feed	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
537 IDA	FDA	Food & Feed	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
537 IDA	FDA	Food & Feed	3:3 FTCA
537 IDA	FDA	Food & Feed	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 IDA	FDA	Food & Feed	5:3 FTCA
537 IDA	FDA	Food & Feed	7:3 FTCA
537 IDA	FDA	Food & Feed	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
537 IDA	FDA	Food & Feed	HFPO-DA
537 IDA	FDA	Food & Feed	NEtFOSAA
537 IDA	FDA	Food & Feed	N-ethylperfluoro-1-octanesulfonamide
537 IDA	FDA	Food & Feed	NMeFOSA
537 IDA	FDA	Food & Feed	NMeFOSAA
537 IDA	FDA	Food & Feed	Perfluoro(4-methoxybutanoic acid)
537 IDA	FDA	Food & Feed	Perfluoro-3,6-dioxaheptanoic acid
537 IDA	FDA	Food & Feed	Perfluoro-3-methoxypropanoic acid
537 IDA	FDA	Food & Feed	Perfluorobutanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorobutanoic acid
537 IDA	FDA	Food & Feed	Perfluorodecanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorodecanoic acid
537 IDA	FDA	Food & Feed	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	FDA	Food & Feed	Perfluorododecanoic acid
537 IDA	FDA	Food & Feed	Perfluoroheptanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluoroheptanoic acid
537 IDA	FDA	Food & Feed	Perfluorohexanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorohexanoic acid
537 IDA	FDA	Food & Feed	Perfluorononanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorononanoic acid
537 IDA	FDA	Food & Feed	Perfluorooctanesulfonamide
537 IDA	FDA	Food & Feed	Perfluorooctanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluorooctanoic acid
537 IDA	FDA	Food & Feed	Perfluoropentanesulfonic acid
537 IDA	FDA	Food & Feed	Perfluoropentanoic acid
537 IDA	FDA	Food & Feed	Perfluorotetradecanoic acid
537 IDA	FDA	Food & Feed	Perfluorotridecanoic acid
537 IDA	FDA	Food & Feed	Perfluoroundecanoic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
537 IDA	FDA	Food & Feed	PFEESA

Method Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
FDA	Shake Extraction with Ultrasonic Bath Extraction	None	ELLE
Homogenization	Preparation, Homogenization	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-145135-1	Ag-Sy2-09823	Food & Feed	09/28/23 09:25	09/29/23 09:45
410-145135-2	Ag-Eg3-092823	Tissue	09/28/23 06:30	09/29/23 09:45
410-145135-3	Ag-Eg4-092823	Tissue	09/28/23 09:40	09/29/23 09:45



**Lancaster Laboratories
Environmental**

Acct. # _____ Group # _____ Sample # _____

Client: Taconic						Matrix			Analyses Requested								For Lab Use Only					
Project Name/#: Phase 2b RI				Site ID #: 442047		Food- Agricultural Products MS/MSD Total # of Containers			Preservation and Filtration Codes								SF #: _____					
Project Manager: Jeff Mirarchi				P.O. #:													SCR #: _____					
Sampler: Taconic-J. Mirarchi				PWSID #:													Preservation Codes					
Phone #: 518.658.3202				Quote #:													H = HCl T = Thiosulfate					
State where samples were collected: NY				For Compliance: Yes ☐ No ☒													N = HNO ₃ B = NaOH					
Sample Identification					Collection		Grab	Composite									S = H ₂ SO ₄ P = H ₃ PO ₄					
Sample ID		Loc.	Type	Date	Time									O = Other								
Ag-Sy2-092823		Sy2	N	9/28/2023	0925	X		TP	MS/MSD	Total # of Containers	PFAS EPA 1633/FDA							Remarks				
Ag-Eg3-092823		Eg3	N	9/28/2023	0930		X	TA		2	X							Syrup				
Ag-Eg4-092823		Eg4	N	9/1/2823	0940		X	TA		2	X							Eggs				
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)						Relinquished by: [Signature]			Date: 9/28/23		Time: 1030		Received by: Kevin Dool			Date: 9-28-23		Time: 10:30				
Date results are needed:						Relinquished by: Kevin Dool			Date: 9-28-2023		Time: 17:00		Received by:			Date:		Time:				
Rush results requested by (please check): E-Mail ☐ Phone ☐ E-mail Address: jeffm@4taconic.com						Relinquished by:			Date:		Time:		Received by:			Date:		Time:				
Phone: 518.658.3202 ext 328						Relinquished by:			Date:		Time:		Received by:			Date:		Time:				
Data Package Options (please check if required)						Level 2 Cat B., EDD, pdf			Relinquished by:			Date:		Time:		Received by: [Signature]			Date: 9-29-23		Time: 09:45	
Type I (Validation/non-CLP)		☐	MA MCP		☐	Relinquished by:			Date:		Time:		Received by:			Date:		Time:				
Type III (Reduced non-CLP)		☐	CT RCP		☐	Relinquished by:			Date:		Time:		Received by:			Date:		Time:				
Type VI (Raw Data Only)		☐	TX TRRP-13		☐	Relinquished by:			Date:		Time:		Received by:			Date:		Time:				
NJ DKQP		☐	NYSDEC Category		☐	A or ☒ B	Relinquished by Commercial Carrier:			Date:		Time:		Received by: Debra A. Byrnes			Date: 9-29-23		Time: 09:45			
EDD Required? Yes ☒ No ☐						If yes, format: NYSDEC As Per Example			UPS			FedEx		Other		Temperature upon receipt			°C			

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7045 0717

7045 0717
Ran 3.2-3.9
corr 3.0-3.7
GJH
12/5/2023

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-145135-1

Login Number: 145135

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Hastings, Greg

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

APPENDIX D

PHASE 2B LABORATORY REPORTS-SURFACE SOIL

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/13/2023 11:53:07 PM

JOB DESCRIPTION

Taconic - Data Gap

JOB NUMBER

410-149055-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Generated
12/13/2023 11:53:07 PM

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

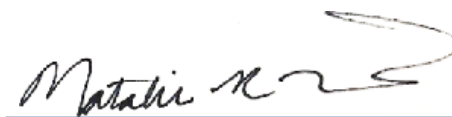


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Job ID: 410-149055-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-149055-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/28/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 0.5°C, 0.5°C and 0.8°C

Receipt Exceptions

All backup containers for water samples received for 1633 PFAS analysis were frozen after receipt.

PFAS

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 above or in the Definitions/ Glossary page.

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: SS-71-0-2-102723

Lab Sample ID: 410-149055-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.83		0.81	0.10	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.46		0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.25		0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.37		0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.28		0.20	0.060	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorononanoic acid	0.54		0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.65		0.20	0.052	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorooctanoic acid	2.6		0.20	0.052	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.29	J	0.40	0.10	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.099	J	0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.19	J	0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.52		0.20	0.051	ng/g	1	✱		Draft-4 1633	Total/NA

Client Sample ID: SS-71-2-12-102723

Lab Sample ID: 410-149055-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.76	J	0.82	0.10	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.22		0.21	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.076	J	0.21	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluoroheptanoic acid	1.3		0.21	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.83		0.21	0.061	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorononanoic acid	0.57		0.21	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.58		0.21	0.053	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorooctanoic acid	14		0.21	0.053	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.52		0.41	0.10	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.073	J	0.21	0.051	ng/g	1	✱		Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.13	J	0.21	0.051	ng/g	1	✱		Draft-4 1633	Total/NA

Client Sample ID: EB-SO-102723

Lab Sample ID: 410-149055-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: SS-71-0-2-102723

Lab Sample ID: 410-149055-1

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 61.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
1H, 1H, 2H, 2H-perfluorohexanesulfonic acid (4:2)	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.51	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.51	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
3-Perfluoroheptylpropanoic acid	5.1	U	5.1	1.0	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
3-Perfluoropentylpropanoic acid	5.1	U	5.1	1.0	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
9CI-PF3ONS	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
DONA	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
HFPODA	0.81	U	0.81	0.052	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
NEtFOSAA	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
NMeFOSA	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
NMeFOSAA	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U	0.40	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorobutanoic acid	0.83		0.81	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorodecanoic acid	0.46		0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorododecanoic acid	0.25		0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoroheptanoic acid	0.37		0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorohexanoic acid	0.28		0.20	0.060	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorononanoic acid	0.54		0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorooctanesulfonic acid	0.65		0.20	0.052	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorooctanoic acid	2.6		0.20	0.052	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoropentanoic acid	0.29	J	0.40	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorotetradecanoic acid	0.099	J	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluorotridecanoic acid	0.19	J	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
Perfluoroundecanoic acid	0.52		0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1
PES	0.40	U	0.40	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	73.4		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C2-PFDoDA	87.8		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C3 HFPO-DA	88.6		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C3 PFBS	117		20 - 150	12/07/23 12:50	12/12/23 06:23	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: SS-71-0-2-102723

Lab Sample ID: 410-149055-1

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 61.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	113		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C4 PFBA	96.7		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C4 PFHpA	92.1		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C5 PFHxA	91.1		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C5 PFPeA	89.1		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C6 PFDA	104		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C7 PFUnA	89.7		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C8 FOSA	90.2		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C8 PFOA	98.7		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C8 PFOS	102		20 - 150	12/07/23 12:50	12/12/23 06:23	1
13C9 PFNA	101		20 - 150	12/07/23 12:50	12/12/23 06:23	1
d3-NMeFOSAA	87.1		20 - 150	12/07/23 12:50	12/12/23 06:23	1
d3-NMePFOSA	72.7		20 - 150	12/07/23 12:50	12/12/23 06:23	1
d5-NEtFOSAA	88.5		20 - 150	12/07/23 12:50	12/12/23 06:23	1
d5-NEtPFOSA	69.4		20 - 150	12/07/23 12:50	12/12/23 06:23	1
d7-N-MeFOSE-M	66.9		20 - 150	12/07/23 12:50	12/12/23 06:23	1
d9-N-EtFOSE-M	59.1		20 - 150	12/07/23 12:50	12/12/23 06:23	1
M2-4:2 FTS	134		20 - 150	12/07/23 12:50	12/12/23 06:23	1
M2-8:2 FTS	142		20 - 150	12/07/23 12:50	12/12/23 06:23	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	12/07/23 12:50	12/13/23 17:01	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	93.1		20 - 150				12/07/23 12:50	12/13/23 17:01	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	38.4		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-71-2-12-102723

Lab Sample ID: 410-149055-2

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 69.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.82	U	0.82	0.21	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.82	U	0.82	0.21	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.1	U	2.1	0.51	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.1	U	2.1	0.51	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
3-Perfluoroheptylpropanoic acid	5.1	U	5.1	1.0	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
3-Perfluoropentylpropanoic acid	5.1	U	5.1	1.0	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.26	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.36	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.36	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1
9Cl-PF3ONS	0.82	U	0.82	0.21	ng/g	☆	12/07/23 12:50	12/12/23 06:36	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: SS-71-2-12-102723

Lab Sample ID: 410-149055-2

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 69.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	0.82	U	0.82	0.21	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
HFPODA	0.82	U	0.82	0.053	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
NEtFOSAA	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
N-ethylperfluoro-1-octanesulfonamide	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
NMeFOSA	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
NMeFOSAA	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Nonafluoro-3,6-dioxaheptanoic acid	0.41	U	0.41	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoro-3-methoxypropanoic acid	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoro-4-methoxybutanoic acid	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorobutanesulfonic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorobutanoic acid	0.76	J	0.82	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorodecanesulfonic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorodecanoic acid	0.22		0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorododecanesulfonic acid (PFDoS)	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorododecanoic acid	0.076	J	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoroheptanesulfonic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoroheptanoic acid	1.3		0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorohexanesulfonic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorohexanoic acid	0.83		0.21	0.061	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorononanesulfonic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorononanoic acid	0.57		0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorooctanesulfonamide	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorooctanesulfonic acid	0.58		0.21	0.053	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorooctanoic acid	14		0.21	0.053	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoropentanesulfonic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoropentanoic acid	0.52		0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorotetradecanoic acid	0.21	U	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluorotridecanoic acid	0.073	J	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
Perfluoroundecanoic acid	0.13	J	0.21	0.051	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1
PES	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 06:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	89.6		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C2-PFDODA	89.6		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C3 HFPO-DA	87.5		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C3 PFBS	111		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C3 PFHxS	106		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C4 PFBA	108		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C4 PFHpA	93.5		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C5 PFHxA	91.1		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C5 PFPeA	91.3		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C6 PFDA	97.7		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C7 PFUnA	90.8		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C8 FOSA	94.1		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C8 PFOA	97.4		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C8 PFOS	95.1		20 - 150	12/07/23 12:50	12/12/23 06:36	1
13C9 PFNA	101		20 - 150	12/07/23 12:50	12/12/23 06:36	1
d3-NMeFOSAA	104		20 - 150	12/07/23 12:50	12/12/23 06:36	1
d3-NMePFOSA	79.0		20 - 150	12/07/23 12:50	12/12/23 06:36	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: SS-71-2-12-102723

Lab Sample ID: 410-149055-2

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 69.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	80.8		20 - 150	12/07/23 12:50	12/12/23 06:36	1
d5-NEtPFOSA	71.6		20 - 150	12/07/23 12:50	12/12/23 06:36	1
d7-N-MeFOSE-M	57.0		20 - 150	12/07/23 12:50	12/12/23 06:36	1
d9-N-EtFOSE-M	45.8		20 - 150	12/07/23 12:50	12/12/23 06:36	1
M2-4:2 FTS	105		20 - 150	12/07/23 12:50	12/12/23 06:36	1
M2-6:2 FTS	146		20 - 150	12/07/23 12:50	12/12/23 06:36	1
M2-8:2 FTS	113		20 - 150	12/07/23 12:50	12/12/23 06:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	30.8		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: EB-SO-102723

Lab Sample ID: 410-149055-3

Date Collected: 10/27/23 11:20

Matrix: Water

Date Received: 10/28/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	7.5	U	7.5	1.9	ng/L		11/22/23 07:47	12/03/23 06:52	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.5	U	7.5	1.6	ng/L		11/22/23 07:47	12/03/23 06:52	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	19	U	19	4.7	ng/L		11/22/23 07:47	12/03/23 06:52	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	19	U	19	4.7	ng/L		11/22/23 07:47	12/03/23 06:52	1
3-Perfluoroheptylpropanoic acid	47	U	47	9.4	ng/L		11/22/23 07:47	12/03/23 06:52	1
3-Perfluoropentylpropanoic acid	47	U	47	9.4	ng/L		11/22/23 07:47	12/03/23 06:52	1
3-Perfluoropropyl propanoic acid	9.4	U	9.4	1.4	ng/L		11/22/23 07:47	12/03/23 06:52	1
6:2 Fluorotelomer sulfonic acid	7.5	U	7.5	2.3	ng/L		11/22/23 07:47	12/03/23 06:52	1
8:2 Fluorotelomer sulfonic acid	7.5	U	7.5	2.4	ng/L		11/22/23 07:47	12/03/23 06:52	1
9Cl-PF3ONS	7.5	U	7.5	0.94	ng/L		11/22/23 07:47	12/03/23 06:52	1
DONA	7.5	U	7.5	1.4	ng/L		11/22/23 07:47	12/03/23 06:52	1
HFPODA	7.5	U	7.5	1.9	ng/L		11/22/23 07:47	12/03/23 06:52	1
NEtFOSAA	1.9	U	1.9	0.66	ng/L		11/22/23 07:47	12/03/23 06:52	1
N-ethylperfluoro-1-octanesulfonamide	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
NMeFOSA	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
NMeFOSAA	3.8	U	3.8	1.1	ng/L		11/22/23 07:47	12/03/23 06:52	1
Nonafluoro-3,6-dioxahexanoic acid	3.8	U	3.8	0.94	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoro-3-methoxypropanoic acid	3.8	U	3.8	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoro-4-methoxybutanoic acid	3.8	U	3.8	0.94	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorobutanesulfonic acid	1.9	U	1.9	0.28	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorobutanoic acid	7.5	U	7.5	1.9	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorodecanesulfonic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorodecanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorododecanesulfonic acid (PFDoS)	1.9	U	1.9	0.85	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorododecanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoroheptanesulfonic acid	1.9	U	1.9	0.38	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoroheptanoic acid	1.9	U	1.9	0.49	ng/L		11/22/23 07:47	12/03/23 06:52	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: EB-SO-102723

Lab Sample ID: 410-149055-3

Date Collected: 10/27/23 11:20

Matrix: Water

Date Received: 10/28/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	1.9	U	1.9	0.54	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorohexanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorononanesulfonic acid	1.9	U	1.9	0.38	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorononanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorooctanesulfonamide	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorooctanesulfonic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorooctanoic acid	1.9	U	1.9	0.60	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoropentanesulfonic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoropentanoic acid	3.8	U	3.8	0.94	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorotetradecanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluorotridecanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
Perfluoroundecanoic acid	1.9	U	1.9	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
PES	3.8	U	3.8	0.47	ng/L		11/22/23 07:47	12/03/23 06:52	1
TDCA	940	U	940	940	ng/L		11/22/23 07:47	12/03/23 06:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	91.7		60 - 200				11/22/23 07:47	12/03/23 06:52	1
d9-N-EtFOSE-M	76.4		10 - 150				11/22/23 07:47	12/03/23 06:52	1
d3-NMePFOSA	78.1		15 - 130				11/22/23 07:47	12/03/23 06:52	1
d7-N-MeFOSE-M	80.7		10 - 150				11/22/23 07:47	12/03/23 06:52	1
d5-NEtPFOSA	81.5		10 - 130				11/22/23 07:47	12/03/23 06:52	1
M2-6:2 FTS	86.6		60 - 200				11/22/23 07:47	12/03/23 06:52	1
M2-8:2 FTS	80.6		50 - 200				11/22/23 07:47	12/03/23 06:52	1
13C2 PFTeDA	74.0		10 - 130				11/22/23 07:47	12/03/23 06:52	1
13C3 HFPO-DA	68.5		25 - 160				11/22/23 07:47	12/03/23 06:52	1
13C3 PFBS	87.2		55 - 150				11/22/23 07:47	12/03/23 06:52	1
13C4 PFBA	78.1		10 - 130				11/22/23 07:47	12/03/23 06:52	1
13C4 PFHpA	77.8		55 - 150				11/22/23 07:47	12/03/23 06:52	1
13C5 PFPeA	76.5		35 - 150				11/22/23 07:47	12/03/23 06:52	1
13C8 PFOA	79.1		60 - 140				11/22/23 07:47	12/03/23 06:52	1
13C8 PFOS	84.8		45 - 140				11/22/23 07:47	12/03/23 06:52	1
d3-NMeFOSAA	88.4		45 - 200				11/22/23 07:47	12/03/23 06:52	1
d5-NEtFOSAA	81.0		10 - 200				11/22/23 07:47	12/03/23 06:52	1
13C3 PFHxS	84.6		55 - 150				11/22/23 07:47	12/03/23 06:52	1
13C5 PFHxA	78.5		55 - 150				11/22/23 07:47	12/03/23 06:52	1
13C6 PFDA	79.8		50 - 140				11/22/23 07:47	12/03/23 06:52	1
13C7 PFUnA	79.2		30 - 140				11/22/23 07:47	12/03/23 06:52	1
13C8 FOSA	80.5		30 - 130				11/22/23 07:47	12/03/23 06:52	1
13C2-PFDoDA	78.3		10 - 150				11/22/23 07:47	12/03/23 06:52	1
13C9 PFNA	83.0		55 - 140				11/22/23 07:47	12/03/23 06:52	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	PFDODA (20-150)	HFPODA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	PFBA (20-150)	C4PFHA (20-150)	13C5PHA (20-150)
410-149055-1	SS-71-0-2-102723	73.4	87.8	88.6	117	113	96.7	92.1	91.1
410-149055-1 - DL	SS-71-0-2-102723								
410-149055-2	SS-71-2-12-102723	89.6	89.6	87.5	111	106	108	93.5	91.1
LCS 410-451323/2-A	Lab Control Sample	91.2	99.5	99.5	91.6	94.3	58.8	112	94.5
LLCS 410-451323/3-A	Lab Control Sample	85.1	99.1	101	109	89.3	32.2	103	100
MB 410-451323/1-A	Method Blank	88.5	96.8	105	95.8	107	72.9	115	103
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFOS (20-150)
410-149055-1	SS-71-0-2-102723	89.1	104	89.7	90.2	98.7	102	101	87.1
410-149055-1 - DL	SS-71-0-2-102723								
410-149055-2	SS-71-2-12-102723	91.3	97.7	90.8	94.1	97.4	95.1	101	104
LCS 410-451323/2-A	Lab Control Sample	104	105	97.4	115	99.2	88.6	89.2	95.7
LLCS 410-451323/3-A	Lab Control Sample	96.6	98.7	91.3	115	99.9	98.6	100	107
MB 410-451323/1-A	Method Blank	111	101	94.9	121	92.3	95.6	93.8	98.7
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d3NMFSA (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-149055-1	SS-71-0-2-102723	72.7	88.5	69.4	66.9	59.1	134		142
410-149055-1 - DL	SS-71-0-2-102723							93.1	
410-149055-2	SS-71-2-12-102723	79.0	80.8	71.6	57.0	45.8	105	146	113
LCS 410-451323/2-A	Lab Control Sample	76.2	100	69.5	71.6	64.4	115	105	107
LLCS 410-451323/3-A	Lab Control Sample	82.6	97.6	73.9	81.2	67.1	99.6	107	90.5
MB 410-451323/1-A	Method Blank	69.9	94.2	63.1	66.1	49.9	95.6	114	136

Surrogate Legend

PFTDA = 13C2 PFTeDA
PFDODA = 13C2-PFDODA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
13C5PHA = 13C5 PFHxA
PFPeA = 13C5 PFPeA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
d5NEFOS = d5-NEtFOSAA
d5NPFSA = d5-NEtPFOSA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap
M282FTS = M2-8:2 FTS

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (60-200)	NEFM (10-150)	d3NMFSa (15-130)	NMFM (10-150)	d5NPFSA (10-130)	M262FTS (60-200)	M282FTS (50-200)	PFTDA (10-130)
410-149055-3	EB-SO-102723	91.7	76.4	78.1	80.7	81.5	86.6	80.6	74.0
MB 410-446261/1-A	Method Blank	81.1	73.8	66.3	75.2	70.9	76.3	67.3	68.1

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-160)	C3PFBS (55-150)	PFBA (10-130)	C4PFHA (55-150)	PFPeA (35-150)	C8PFOA (60-140)	C8PFOS (45-140)	d3NMFOS (45-200)
410-149055-3	EB-SO-102723	68.5	87.2	78.1	77.8	76.5	79.1	84.8	88.4
MB 410-446261/1-A	Method Blank	69.4	76.4	71.7	74.8	72.8	77.9	80.7	76.3

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (10-200)	C3PFHS (55-150)	13C5PHA (55-150)	C6PFDA (50-140)	13C7PUA (30-140)	PFOSA (30-130)	PFDODA (10-150)	C9PFNA (55-140)
410-149055-3	EB-SO-102723	81.0	84.6	78.5	79.8	79.2	80.5	78.3	83.0
MB 410-446261/1-A	Method Blank	70.6	70.9	70.4	77.5	71.7	77.6	70.7	71.3

Surrogate Legend

M242FTS = M2-4:2 FTS
NEFM = d9-N-EtFOSE-M
d3NMFSa = d3-NMePFOSA
NMFM = d7-N-MeFOSE-M
d5NPFSA = d5-NEtPFOSA
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
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
PFDODA = 13C2-PFDODA
C9PFNA = 13C9 PFNA

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NEFM (10-150)	NMFM (10-150)	d5NPFSA (10-130)	PFTDA (10-130)	HFPODA (25-160)	C3PFBS (25-150)	PFBA (10-130)	C4PFHA (40-150)
LCS 410-446261/2-A	Lab Control Sample	82.6	89.4	81.9	82.5	70.0	86.5	80.7	82.0
LLCS 410-446261/3-A	Lab Control Sample	81.5	84.9	83.7	82.7	76.0	91.0	81.1	82.1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (40-150)	C8PFOA (30-140)	C8PFOS (20-140)	d5NEFOS (10-200)	C3PFHS (25-150)	13C5PHA (40-150)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 410-446261/2-A	Lab Control Sample	80.6	80.6	89.5	78.3	78.5	80.9	90.8	80.0
LLCS 410-446261/3-A	Lab Control Sample	80.4	83.8	86.9	81.8	80.6	81.3	86.6	81.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-130)	PFDODA (10-150)	C9PFNA (30-140)	d3NMFOS (10-200)	d3NMFSA (10-130)	M242FTS (25-200)	M262FTS (25-200)	M282FTS (25-200)
LCS 410-446261/2-A	Lab Control Sample	89.7	84.4	80.3	90.0	75.9	85.9	80.0	78.1
LLCS 410-446261/3-A	Lab Control Sample	89.4	82.0	80.0	88.9	76.1	95.4	86.5	79.7

Surrogate Legend

NEFM = d9-N-EtFOSE-M
 NMFm = d7-N-MeFOSE-M
 d5NPFSA = d5-N-EtPFOSA
 PFTDA = 13C2 PFTeDA
 HFPODA = 13C3 HFPO-DA
 C3PFBS = 13C3 PFBS
 PFBA = 13C4 PFBA
 C4PFHA = 13C4 PFHpA
 PFPeA = 13C5 PFPeA
 C8PFOA = 13C8 PFOA
 C8PFOS = 13C8 PFOS
 d5NEFOS = d5-N-EtFOSAA
 C3PFHS = 13C3 PFHxS
 13C5PHA = 13C5 PFHxA
 C6PFDA = 13C6 PFDA
 13C7PUA = 13C7 PFUnA
 PFOSA = 13C8 FOSA
 PFDODA = 13C2-PFDODA
 C9PFNA = 13C9 PFNA
 d3NMFOS = d3-NMeFOSAA
 d3NMFSA = d3-NMePFOSA
 M242FTS = M2-4:2 FTS
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-446261/1-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 446261

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	8.0	U	8.0	2.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	1.7	ng/L		11/22/23 07:47	12/03/23 04:42	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
3-Perfluoroheptylpropanoic acid	50	U	50	10	ng/L		11/22/23 07:47	12/03/23 04:42	1
3-Perfluoropentylpropanoic acid	50	U	50	10	ng/L		11/22/23 07:47	12/03/23 04:42	1
3-Perfluoropropyl propanoic acid	10	U	10	1.5	ng/L		11/22/23 07:47	12/03/23 04:42	1
6:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.5	ng/L		11/22/23 07:47	12/03/23 04:42	1
8:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.6	ng/L		11/22/23 07:47	12/03/23 04:42	1
9CI-PF3ONS	8.0	U	8.0	1.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
DONA	8.0	U	8.0	1.5	ng/L		11/22/23 07:47	12/03/23 04:42	1
HFPODA	8.0	U	8.0	2.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
NEtFOSAA	2.0	U	2.0	0.70	ng/L		11/22/23 07:47	12/03/23 04:42	1
N-ethylperfluoro-1-octanesulfonamide	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
NMeFOSA	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
NMeFOSAA	4.0	U	4.0	1.2	ng/L		11/22/23 07:47	12/03/23 04:42	1
Nonafluoro-3,6-dioxahexanoic acid	4.0	U	4.0	1.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoro-3-methoxypropanoic acid	4.0	U	4.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoro-4-methoxybutanoic acid	4.0	U	4.0	1.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorobutanesulfonic acid	2.0	U	2.0	0.30	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorobutanoic acid	8.0	U	8.0	2.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorodecanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorodecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.90	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorododecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoroheptanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoroheptanoic acid	2.0	U	2.0	0.52	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorohexanesulfonic acid	2.0	U	2.0	0.57	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorohexanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorononanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorononanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorooctanesulfonamide	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorooctanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorooctanoic acid	2.0	U	2.0	0.64	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoropentanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoropentanoic acid	4.0	U	4.0	1.0	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorotetradecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluorotridecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
Perfluoroundecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
PES	4.0	U	4.0	0.50	ng/L		11/22/23 07:47	12/03/23 04:42	1
TDCA	1000	U	1000	1000	ng/L		11/22/23 07:47	12/03/23 04:42	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C2 PFTeDA	68.1		10 - 130	11/22/23 07:47	12/03/23 04:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-446261/1-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 446261

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	69.4		25 - 160	11/22/23 07:47	12/03/23 04:42	1
13C3 PFBS	76.4		55 - 150	11/22/23 07:47	12/03/23 04:42	1
13C4 PFBA	71.7		10 - 130	11/22/23 07:47	12/03/23 04:42	1
13C4 PFHpA	74.8		55 - 150	11/22/23 07:47	12/03/23 04:42	1
13C5 PFPeA	72.8		35 - 150	11/22/23 07:47	12/03/23 04:42	1
13C8 PFOA	77.9		60 - 140	11/22/23 07:47	12/03/23 04:42	1
13C8 PFOS	80.7		45 - 140	11/22/23 07:47	12/03/23 04:42	1
13C3 PFHxS	70.9		55 - 150	11/22/23 07:47	12/03/23 04:42	1
13C5 PFHxA	70.4		55 - 150	11/22/23 07:47	12/03/23 04:42	1
13C6 PFDA	77.5		50 - 140	11/22/23 07:47	12/03/23 04:42	1
13C7 PFUnA	71.7		30 - 140	11/22/23 07:47	12/03/23 04:42	1
13C8 FOSA	77.6		30 - 130	11/22/23 07:47	12/03/23 04:42	1
13C2-PFDoDA	70.7		10 - 150	11/22/23 07:47	12/03/23 04:42	1
13C9 PFNA	71.3		55 - 140	11/22/23 07:47	12/03/23 04:42	1
d3-NMeFOSAA	76.3		45 - 200	11/22/23 07:47	12/03/23 04:42	1
d3-NMePFOSA	66.3		15 - 130	11/22/23 07:47	12/03/23 04:42	1
d5-NEtFOSAA	70.6		10 - 200	11/22/23 07:47	12/03/23 04:42	1
d5-NEtPFOSA	70.9		10 - 130	11/22/23 07:47	12/03/23 04:42	1
d7-N-MeFOSE-M	75.2		10 - 150	11/22/23 07:47	12/03/23 04:42	1
d9-N-EtFOSE-M	73.8		10 - 150	11/22/23 07:47	12/03/23 04:42	1
M2-4:2 FTS	81.1		60 - 200	11/22/23 07:47	12/03/23 04:42	1
M2-6:2 FTS	76.3		60 - 200	11/22/23 07:47	12/03/23 04:42	1
M2-8:2 FTS	67.3		50 - 200	11/22/23 07:47	12/03/23 04:42	1

Lab Sample ID: LCS 410-446261/2-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	94.2	93.1		ng/L		99	46 - 156
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	98.2		ng/L		105	67 - 146
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	267		ng/L		107	69 - 137
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	266		ng/L		106	71 - 136
3-Perfluoroheptylpropanoic acid	626	682		ng/L		109	50 - 138
3-Perfluoropentylpropanoic acid	626	682		ng/L		109	63 - 134
3-Perfluoropropyl propanoic acid	125	140		ng/L		112	62 - 129
6:2 Fluorotelomer sulfonic acid	95.2	102		ng/L		107	61 - 151
8:2 Fluorotelomer sulfonic acid	96.2	106		ng/L		110	63 - 152
9Cl-PF3ONS	93.2	101		ng/L		109	56 - 156
DONA	94.2	124		ng/L		132	68 - 146
HFPODA	100	105		ng/L		105	63 - 144
NEtFOSAA	25.0	30.4		ng/L		121	59 - 146
N-ethylperfluoro-1-octanesulfonamide	25.0	25.2		ng/L		101	65 - 139
NMeFOSA	25.0	25.3		ng/L		101	63 - 145

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-446261/2-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	26.8		ng/L		107	58 - 144
Nonafluoro-3,6-dioxaheptanoic acid	50.1	49.8		ng/L		99	48 - 161
Perfluoro-3-methoxypropanoic acid	50.1	53.1		ng/L		106	51 - 145
Perfluoro-4-methoxybutanoic acid	50.1	52.5		ng/L		105	55 - 148
Perfluorobutanesulfonic acid	22.2	20.9		ng/L		94	62 - 144
Perfluorobutanoic acid	100	103		ng/L		103	58 - 148
Perfluorodecanesulfonic acid	24.2	24.7		ng/L		102	51 - 147
Perfluorodecanoic acid	25.0	26.5		ng/L		106	52 - 147
Perfluorododecanesulfonic acid (PFDoS)	24.3	23.2		ng/L		96	36 - 145
Perfluorododecanoic acid	25.0	28.5		ng/L		114	64 - 142
Perfluoroheptanesulfonic acid	23.9	23.6		ng/L		99	55 - 152
Perfluoroheptanoic acid	25.0	27.8		ng/L		111	54 - 154
Perfluorohexanesulfonic acid	22.9	25.0		ng/L		109	57 - 146
Perfluorohexanoic acid	25.0	26.4		ng/L		105	55 - 152
Perfluorononanesulfonic acid	24.1	23.8		ng/L		99	52 - 148
Perfluorononanoic acid	25.0	33.9		ng/L		136	59 - 149
Perfluorooctanesulfonamide	25.0	25.0		ng/L		100	61 - 148
Perfluorooctanesulfonic acid	23.2	23.8		ng/L		102	58 - 149
Perfluorooctanoic acid	25.0	36.0		ng/L		144	52 - 161
Perfluoropentanesulfonic acid	23.6	28.6		ng/L		121	59 - 151
Perfluoropentanoic acid	50.1	54.7		ng/L		109	54 - 152
Perfluorotetradecanoic acid	25.0	27.1		ng/L		108	47 - 161
Perfluorotridecanoic acid	25.0	27.1		ng/L		108	49 - 148
Perfluoroundecanoic acid	25.0	27.6		ng/L		110	48 - 159
PES	44.6	47.5		ng/L		107	56 - 151

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	82.5		10 - 130
13C3 HFPO-DA	70.0		25 - 160
13C3 PFBS	86.5		25 - 150
13C4 PFBA	80.7		10 - 130
13C4 PFHpA	82.0		40 - 150
13C5 PFPeA	80.6		40 - 150
13C8 PFOA	80.6		30 - 140
13C8 PFOS	89.5		20 - 140
13C3 PFHxS	78.5		25 - 150
13C5 PFHxA	80.9		40 - 150
13C6 PFDA	90.8		20 - 140
13C7 PFUnA	80.0		20 - 140
13C8 FOSA	89.7		10 - 130
13C2-PFDoDA	84.4		10 - 150
13C9 PFNA	80.3		30 - 140
d3-NMeFOSAA	90.0		10 - 200
d3-NMePFOSA	75.9		10 - 130
d5-NEtFOSAA	78.3		10 - 200
d5-NEtPFOSA	81.9		10 - 130

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-446261/2-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446261

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
d7-N-MeFOSE-M	89.4		10 - 150
d9-N-EtFOSE-M	82.6		10 - 150
M2-4:2 FTS	85.9		25 - 200
M2-6:2 FTS	80.0		25 - 200
M2-8:2 FTS	78.1		25 - 200

Lab Sample ID: LLCS 410-446261/3-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446261

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	15.1	17.3		ng/L		115	36 - 158
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	14.3		ng/L		95	52 - 158
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	44.0		ng/L		110	60 - 147
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	44.5		ng/L		111	56 - 151
3-Perfluoroheptylpropanoic acid	100	114		ng/L		114	36 - 149
3-Perfluoropentylpropanoic acid	100	111		ng/L		111	39 - 156
3-Perfluoropropyl propanoic acid	20.0	22.9		ng/L		114	32 - 161
6:2 Fluorotelomer sulfonic acid	15.2	16.7		ng/L		110	48 - 158
8:2 Fluorotelomer sulfonic acid	15.4	16.8		ng/L		110	46 - 165
9Cl-PF3ONS	14.9	17.2		ng/L		115	44 - 167
DONA	15.1	19.0		ng/L		126	61 - 148
HFPODA	16.0	18.2		ng/L		114	58 - 154
NEtFOSAA	4.00	4.46		ng/L		111	51 - 154
N-ethylperfluoro-1-octanesulfonamide	4.00	3.78		ng/L		95	49 - 156
NMeFOSA	4.00	3.92		ng/L		98	54 - 155
NMeFOSAA	4.00	4.16		ng/L		104	32 - 160
Nonafluoro-3,6-dioxaheptanoic acid	8.00	8.66		ng/L		108	47 - 160
Perfluoro-3-methoxypropanoic acid	8.00	8.40		ng/L		105	48 - 150
Perfluoro-4-methoxybutanoic acid	8.00	8.23		ng/L		103	49 - 154
Perfluorobutanesulfonic acid	3.55	3.41		ng/L		96	63 - 145
Perfluorobutanoic acid	16.0	15.6		ng/L		97	44 - 157
Perfluorodecanesulfonic acid	3.86	3.95		ng/L		102	50 - 144
Perfluorodecanoic acid	4.00	4.18		ng/L		105	43 - 158
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.89		ng/L		100	30 - 138
Perfluorododecanoic acid	4.00	4.72		ng/L		118	60 - 141
Perfluoroheptanesulfonic acid	3.81	3.48		ng/L		91	51 - 150
Perfluoroheptanoic acid	4.00	4.60		ng/L		115	56 - 150
Perfluorohexanesulfonic acid	3.66	3.87		ng/L		106	44 - 158
Perfluorohexanoic acid	4.00	4.38		ng/L		109	62 - 149
Perfluorononanesulfonic acid	3.85	3.93		ng/L		102	46 - 151

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-446261/3-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446261

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid	4.00	5.61		ng/L		140	53 - 157
Perfluorooctanesulfonamide	4.00	3.91		ng/L		98	47 - 163
Perfluorooctanesulfonic acid	3.71	3.86		ng/L		104	43 - 162
Perfluorooctanoic acid	4.00	5.85		ng/L		146	57 - 161
Perfluoropentanesulfonic acid	3.76	4.33		ng/L		115	58 - 144
Perfluoropentanoic acid	8.00	8.98		ng/L		112	57 - 148
Perfluorotetradecanoic acid	4.00	4.17		ng/L		104	52 - 156
Perfluorotridecanoic acid	4.00	4.19		ng/L		105	52 - 140
Perfluoroundecanoic acid	4.00	4.52		ng/L		113	50 - 155
PES	7.12	7.49		ng/L		105	56 - 144

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFTeDA	82.7		10 - 130
13C3 HFPO-DA	76.0		25 - 160
13C3 PFBS	91.0		25 - 150
13C4 PFBA	81.1		10 - 130
13C4 PFHpA	82.1		40 - 150
13C5 PFPeA	80.4		40 - 150
13C8 PFOA	83.8		30 - 140
13C8 PFOS	86.9		20 - 140
13C3 PFHxS	80.6		25 - 150
13C5 PFHxA	81.3		40 - 150
13C6 PFDA	86.6		20 - 140
13C7 PFUnA	81.1		20 - 140
13C8 FOSA	89.4		10 - 130
13C2-PFDoDA	82.0		10 - 150
13C9 PFNA	80.0		30 - 140
d3-NMeFOSAA	88.9		10 - 200
d3-NMePFOSA	76.1		10 - 130
d5-NEtFOSAA	81.8		10 - 200
d5-NEtPFOSA	83.7		10 - 130
d7-N-MeFOSE-M	84.9		10 - 150
d9-N-EtFOSE-M	81.5		10 - 150
M2-4:2 FTS	95.4		25 - 200
M2-6:2 FTS	86.5		25 - 200
M2-8:2 FTS	79.7		25 - 200

Lab Sample ID: MB 410-451323/1-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		12/07/23 12:50	12/12/23 02:53	1

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-451323/1-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		12/07/23 12:50	12/12/23 02:53	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g		12/07/23 12:50	12/12/23 02:53	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g		12/07/23 12:50	12/12/23 02:53	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g		12/07/23 12:50	12/12/23 02:53	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		12/07/23 12:50	12/12/23 02:53	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		12/07/23 12:50	12/12/23 02:53	1
9CI-PF3ONS	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
DONA	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
HFPODA	0.80	U	0.80	0.051	ng/g		12/07/23 12:50	12/12/23 02:53	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
NMeFOSA	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorodecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoroheptanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorohexanoic acid	0.20	U	0.20	0.059	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorononanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorooctanesulfonic acid	0.20	U	0.20	0.051	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorooctanoic acid	0.20	U	0.20	0.051	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoropentanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
PES	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	88.5		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C3 HFPO-DA	105		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C3 PFBS	95.8		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C4 PFBA	72.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C4 PFHpA	115		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C5 PFPeA	111		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C8 PFOA	92.3		20 - 150	12/07/23 12:50	12/12/23 02:53	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-451323/1-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451323

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	95.6		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C3 PFHxS	107		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C5 PFHxA	103		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C6 PFDA	101		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C7 PFUnA	94.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C8 FOSA	121		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C2-PFDoDA	96.8		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C9 PFNA	93.8		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d3-NMeFOSAA	98.7		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d3-NMePFOSA	69.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d5-NEtFOSAA	94.2		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d5-NEtPFOSA	63.1		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d7-N-MeFOSE-M	66.1		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d9-N-EtFOSE-M	49.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
M2-4:2 FTS	95.6		20 - 150	12/07/23 12:50	12/12/23 02:53	1
M2-6:2 FTS	114		20 - 150	12/07/23 12:50	12/12/23 02:53	1
M2-8:2 FTS	136		20 - 150	12/07/23 12:50	12/12/23 02:53	1

Lab Sample ID: LCS 410-451323/2-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	9.42	8.74		ng/g		93	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.39	7.87		ng/g		84	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	21.0		ng/g		84	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	23.5		ng/g		94	40 - 150
3-Perfluoroheptylpropanoic acid	62.6	64.9		ng/g		104	40 - 150
3-Perfluoropentylpropanoic acid	62.6	60.9		ng/g		97	40 - 150
3-Perfluoropropyl propanoic acid	12.5	10.6		ng/g		85	40 - 150
6:2 Fluorotelomer sulfonic acid	9.52	7.33		ng/g		77	40 - 150
8:2 Fluorotelomer sulfonic acid	9.62	7.66		ng/g		80	40 - 150
9Cl-PF3ONS	9.32	7.75		ng/g		83	40 - 150
DONA	9.42	8.86		ng/g		94	40 - 150
HFPODA	10.0	7.62		ng/g		76	40 - 150
NEtFOSAA	2.50	2.27		ng/g		91	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	2.09		ng/g		83	40 - 150
NMeFOSA	2.50	2.18		ng/g		87	40 - 150
NMeFOSAA	2.50	1.92		ng/g		77	40 - 150
Nonafluoro-3,6-dioxahexanoic acid	5.01	4.53		ng/g		90	40 - 150
Perfluoro-3-methoxypropanoic acid	5.01	4.09		ng/g		82	40 - 150
Perfluoro-4-methoxybutanoic acid	5.01	4.11		ng/g		82	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-451323/2-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid	2.22	1.94		ng/g		87	40 - 150
Perfluorobutanoic acid	10.0	8.81		ng/g		88	40 - 150
Perfluorodecanesulfonic acid	2.42	2.65		ng/g		110	40 - 150
Perfluorodecanoic acid	2.50	2.12		ng/g		85	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.99		ng/g		82	40 - 150
Perfluorododecanoic acid	2.50	2.31		ng/g		92	40 - 150
Perfluoroheptanesulfonic acid	2.39	2.38		ng/g		100	40 - 150
Perfluoroheptanoic acid	2.50	2.20		ng/g		88	40 - 150
Perfluorohexanesulfonic acid	2.29	1.96		ng/g		86	40 - 150
Perfluorohexanoic acid	2.50	2.45		ng/g		98	40 - 150
Perfluorononanesulfonic acid	2.41	2.60		ng/g		108	40 - 150
Perfluorononanoic acid	2.50	2.66		ng/g		106	40 - 150
Perfluorooctanesulfonamide	2.50	2.16		ng/g		86	40 - 150
Perfluorooctanesulfonic acid	2.32	2.30		ng/g		99	40 - 150
Perfluorooctanoic acid	2.50	2.44		ng/g		98	40 - 150
Perfluoropentanesulfonic acid	2.36	2.15		ng/g		91	40 - 150
Perfluoropentanoic acid	5.01	4.67		ng/g		93	40 - 150
Perfluorotetradecanoic acid	2.50	2.40		ng/g		96	40 - 150
Perfluorotridecanoic acid	2.50	2.19		ng/g		88	40 - 150
Perfluoroundecanoic acid	2.50	2.07		ng/g		82	40 - 150
PES	4.46	4.01		ng/g		90	40 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	91.2		20 - 150
13C3 HFPO-DA	99.5		20 - 150
13C3 PFBS	91.6		20 - 150
13C4 PFBA	58.8		20 - 150
13C4 PFHpA	112		20 - 150
13C5 PFPeA	104		20 - 150
13C8 PFOA	99.2		20 - 150
13C8 PFOS	88.6		20 - 150
13C3 PFHxS	94.3		20 - 150
13C5 PFHxA	94.5		20 - 150
13C6 PFDA	105		20 - 150
13C7 PFUnA	97.4		20 - 150
13C8 FOSA	115		20 - 150
13C2-PFDoDA	99.5		20 - 150
13C9 PFNA	89.2		20 - 150
d3-NMeFOSAA	95.7		20 - 150
d3-NMePFOSA	76.2		20 - 150
d5-NEtFOSAA	100		20 - 150
d5-NEtPFOSA	69.5		20 - 150
d7-N-MeFOSE-M	71.6		20 - 150
d9-N-EtFOSE-M	64.4		20 - 150
M2-4:2 FTS	115		20 - 150
M2-6:2 FTS	105		20 - 150
M2-8:2 FTS	107		20 - 150

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-451323/3-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451323

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11CI-PF3OUdS	1.51	1.30		ng/g		86	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.50	1.07		ng/g		71	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	3.30		ng/g		83	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	3.59		ng/g		90	40 - 150
3-Perfluoroheptylpropanoic acid	10.0	8.34		ng/g		83	40 - 150
3-Perfluoropentylpropanoic acid	10.0	8.81		ng/g		88	40 - 150
3-Perfluoropropyl propanoic acid	2.00	1.77		ng/g		88	40 - 150
6:2 Fluorotelomer sulfonic acid	1.52	1.07		ng/g		70	40 - 150
8:2 Fluorotelomer sulfonic acid	1.54	1.61		ng/g		105	40 - 150
9CI-PF3ONS	1.49	1.23		ng/g		82	40 - 150
DONA	1.51	1.26		ng/g		84	40 - 150
HFPODA	1.60	1.27		ng/g		80	40 - 150
NEtFOSAA	0.400	0.311		ng/g		78	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.331		ng/g		83	40 - 150
NMeFOSA	0.400	0.318		ng/g		80	40 - 150
NMeFOSAA	0.400	0.266		ng/g		66	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid	0.800	0.682		ng/g		85	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.468		ng/g		58	40 - 150
Perfluoro-4-methoxybutanoic acid	0.800	0.713		ng/g		89	40 - 150
Perfluorobutanesulfonic acid	0.355	0.268		ng/g		76	40 - 150
Perfluorobutanoic acid	1.60	1.31		ng/g		82	40 - 150
Perfluorodecanesulfonic acid	0.386	0.361		ng/g		93	40 - 150
Perfluorodecanoic acid	0.400	0.301		ng/g		75	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.270		ng/g		70	40 - 150
Perfluorododecanoic acid	0.400	0.361		ng/g		90	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.370		ng/g		97	40 - 150
Perfluoroheptanoic acid	0.400	0.349		ng/g		87	40 - 150
Perfluorohexanesulfonic acid	0.366	0.328		ng/g		90	40 - 150
Perfluorohexanoic acid	0.400	0.316		ng/g		79	40 - 150
Perfluorononanesulfonic acid	0.385	0.401		ng/g		104	40 - 150
Perfluorononanoic acid	0.400	0.435		ng/g		109	40 - 150
Perfluorooctanesulfonamide	0.400	0.329		ng/g		82	40 - 150
Perfluorooctanesulfonic acid	0.371	0.344		ng/g		93	40 - 150
Perfluorooctanoic acid	0.400	0.366		ng/g		91	40 - 150
Perfluoropentanesulfonic acid	0.376	0.318		ng/g		84	40 - 150
Perfluoropentanoic acid	0.800	0.664		ng/g		83	40 - 150
Perfluorotetradecanoic acid	0.400	0.337		ng/g		84	40 - 150
Perfluorotridecanoic acid	0.400	0.322		ng/g		81	40 - 150
Perfluoroundecanoic acid	0.400	0.359		ng/g		90	40 - 150
PES	0.712	0.645		ng/g		91	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS	LLCS	Limits
	%Recovery	Qualifier	
13C2 PFTeDA	85.1		20 - 150
13C3 HFPO-DA	101		20 - 150
13C3 PFBS	109		20 - 150
13C4 PFBA	32.2		20 - 150
13C4 PFHpA	103		20 - 150
13C5 PFPeA	96.6		20 - 150
13C8 PFOA	99.9		20 - 150
13C8 PFOS	98.6		20 - 150
13C3 PFHxS	89.3		20 - 150
13C5 PFHxA	100		20 - 150
13C6 PFDA	98.7		20 - 150
13C7 PFUnA	91.3		20 - 150
13C8 FOSA	115		20 - 150
13C2-PFDoDA	99.1		20 - 150
13C9 PFNA	100		20 - 150
d3-NMeFOSAA	107		20 - 150
d3-NMePFOSA	82.6		20 - 150
d5-NEtFOSAA	97.6		20 - 150
d5-NEtPFOSA	73.9		20 - 150
d7-N-MeFOSE-M	81.2		20 - 150
d9-N-EtFOSE-M	67.1		20 - 150
M2-4:2 FTS	99.6		20 - 150
M2-6:2 FTS	107		20 - 150
M2-8:2 FTS	90.5		20 - 150

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

LCMS

Prep Batch: 446261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149055-3	EB-SO-102723	Total/NA	Water	1633	
MB 410-446261/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-446261/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-446261/3-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 449408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149055-3	EB-SO-102723	Total/NA	Water	Draft-4 1633	446261
MB 410-446261/1-A	Method Blank	Total/NA	Water	Draft-4 1633	446261
LCS 410-446261/2-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	446261
LLCS 410-446261/3-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	446261

Prep Batch: 451323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149055-1 - DL	SS-71-0-2-102723	Total/NA	Solid	1633 Shake	
410-149055-1	SS-71-0-2-102723	Total/NA	Solid	1633 Shake	
410-149055-2	SS-71-2-12-102723	Total/NA	Solid	1633 Shake	
MB 410-451323/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-451323/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-451323/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 452719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149055-1	SS-71-0-2-102723	Total/NA	Solid	Draft-4 1633	451323
410-149055-2	SS-71-2-12-102723	Total/NA	Solid	Draft-4 1633	451323
MB 410-451323/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	451323
LCS 410-451323/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	451323
LLCS 410-451323/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	451323

Analysis Batch: 452854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149055-1 - DL	SS-71-0-2-102723	Total/NA	Solid	Draft-4 1633	451323

General Chemistry

Analysis Batch: 437310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149055-1	SS-71-0-2-102723	Total/NA	Solid	Moisture	
410-149055-2	SS-71-2-12-102723	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Client Sample ID: SS-71-0-2-102723

Lab Sample ID: 410-149055-1

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-71-0-2-102723

Lab Sample ID: 410-149055-1

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 61.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633		1	452719	VK3G	ELLE	12/12/23 06:23
Total/NA	Prep	1633 Shake	DL		451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633	DL	10	452854	UUV6	ELLE	12/13/23 17:01

Client Sample ID: SS-71-2-12-102723

Lab Sample ID: 410-149055-2

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-71-2-12-102723

Lab Sample ID: 410-149055-2

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 69.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633		1	452719	VK3G	ELLE	12/12/23 06:36

Client Sample ID: EB-SO-102723

Lab Sample ID: 410-149055-3

Date Collected: 10/27/23 11:20

Matrix: Water

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			446261	S7AC	ELLE	11/22/23 07:47
Total/NA	Analysis	Draft-4 1633		1	449408	VK3G	ELLE	12/03/23 06:52

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633	Water	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633	Water	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633	Water	NEtFOSAA
Draft-4 1633	1633	Water	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633	Water	NMeFOSA
Draft-4 1633	1633	Water	Perfluorodecanesulfonic acid
Draft-4 1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633	Water	Perfluoroheptanoic acid
Draft-4 1633	1633	Water	Perfluorononanesulfonic acid
Draft-4 1633	1633	Water	Perfluorooctanesulfonamide
Draft-4 1633	1633	Water	PES
Draft-4 1633	1633	Water	TDCA
Draft-4 1633	1633 Shake	Solid	11Cl-PF3OUdS
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633 Shake	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633 Shake	Solid	6:2 Fluorotelomer sulfonic acid
Draft-4 1633	1633 Shake	Solid	9Cl-PF3ONS
Draft-4 1633	1633 Shake	Solid	DONA
Draft-4 1633	1633 Shake	Solid	HFPODA
Draft-4 1633	1633 Shake	Solid	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633 Shake	Solid	NMeFOSA
Draft-4 1633	1633 Shake	Solid	Nonafluoro-3,6-dioxaheptanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorononanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorooctanesulfonamide

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid
Draft-4 1633	1633 Shake	Solid	PES
Moisture		Solid	Percent Moisture

Method Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Method	Method Description	Protocol	Laboratory
Draft-4 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-149055-1	SS-71-0-2-102723	Solid	10/27/23 11:00	10/28/23 09:45
410-149055-2	SS-71-2-12-102723	Solid	10/27/23 11:05	10/28/23 09:45
410-149055-3	EB-SO-102723	Water	10/27/23 11:20	10/28/23 09:45

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Section A Laboratory Infor

Lab Name: Eurofins

Lab Name: Eurofins

Attention: Natalie Luciano

Address:

Phone: 717-556-7258

Email: Natalie.Luciano@et.eurofinsus.com

Report To: Natalie Luciano

Copy To Ellen.Skiff@parsons.com; Laura.Drachenberg@parsons.com
Marvianne.Kosciewicz@parsons.com

Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD

[illegible]**Special Instructions:**

Samplers Name:

Alison Cook

Shipment Method:

100

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Relinquished By: Tim Koller 10-27-23 1600

Received by: 32 10/28/23 945

12/13/2023

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-149055-1

Login Number: 149055

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/19/2023 11:13:51 PM

JOB DESCRIPTION

Taconic - Data Gap

JOB NUMBER

410-149962-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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12/19/2023 11:13:51 PM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

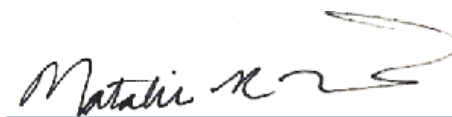


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Taconic Inc
Project: Taconic - Data Gap

Job ID: 410-149962-1

Job ID: 410-149962-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-149962-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/3/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9°C and 1.7°C

Receipt Exceptions

All backup containers for water samples received for 1633 PFAS analysis were frozen after receipt.

PFAS

Method 1633: The LCS/LCSD labeled isotope(s) 13C2 PFTeDA recovery associated with samples: SS-66-0-2-110123 (410-149962-1), SS-66-2-12-110123 (410-149962-2), SS-67-0-2-110123 (410-149962-3) and SS-67-2-12-110123 (410-149962-4) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

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 above or in the Definitions/ Glossary page.

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-66-0-2-110123

Lab Sample ID: 410-149962-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.11	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.064	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.060	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.075	J I	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.17	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.37		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.35		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.051	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.11	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-66-2-12-110123

Lab Sample ID: 410-149962-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.14	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.13	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.12	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.16	J	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.76		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.13	J	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-67-0-2-110123

Lab Sample ID: 410-149962-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.26	J	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.20		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.15	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.33		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.16	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.23		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.21		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	6.2		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.18	J I	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.067	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.13	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.25		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-67-2-12-110123

Lab Sample ID: 410-149962-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.052	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.21		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.14	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.14	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.094	J	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	5.6		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.13	J I	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: EB-SS-110123

Lab Sample ID: 410-149962-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-66-0-2-110123

Lab Sample ID: 410-149962-1

Date Collected: 11/01/23 13:50

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 64.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
9CI-PF3ONS	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
DONA	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
HFPODA	0.80	U	0.80	0.051	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
NETFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorodecanoic acid	0.11	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorododecanoic acid	0.064	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoroheptanoic acid	0.060	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorohexanoic acid	0.075	J I	0.20	0.059	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorononanoic acid	0.17	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorooctanesulfonic acid	0.37		0.20	0.051	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorooctanoic acid	0.35		0.20	0.051	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoropentanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluorotridecanoic acid	0.051	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
Perfluoroundecanoic acid	0.11	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1
PES	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/06/23 18:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	21.5	cn	20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C2-PFDoDA	77.5		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C3 HFPO-DA	78.3		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C3 PFBS	88.7		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C3 PFHxS	78.7		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C4 PFBA	83.2		20 - 150	11/15/23 08:17	12/06/23 18:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-66-0-2-110123

Lab Sample ID: 410-149962-1

Date Collected: 11/01/23 13:50

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 64.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	79.3		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C5 PFHxA	80.1		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C5 PFPeA	78.0		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C6 PFDA	89.8		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C7 PFUnA	87.3		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C8 FOSA	89.2		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C8 PFOA	80.1		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C8 PFOS	88.6		20 - 150	11/15/23 08:17	12/06/23 18:55	1
13C9 PFNA	88.4		20 - 150	11/15/23 08:17	12/06/23 18:55	1
d3-NMeFOSAA	92.4		20 - 150	11/15/23 08:17	12/06/23 18:55	1
d3-NMePFOSA	67.5		20 - 150	11/15/23 08:17	12/06/23 18:55	1
d5-NEtFOSAA	84.8		20 - 150	11/15/23 08:17	12/06/23 18:55	1
d5-NEtPFOSA	63.2		20 - 150	11/15/23 08:17	12/06/23 18:55	1
d7-N-MeFOSE-M	68.6		20 - 150	11/15/23 08:17	12/06/23 18:55	1
d9-N-EtFOSE-M	62.2		20 - 150	11/15/23 08:17	12/06/23 18:55	1
M2-8:2 FTS	142		20 - 150	11/15/23 08:17	12/06/23 18:55	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	2.0	ng/g	☼	11/15/23 08:17	12/15/23 18:58	10
6:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	11/15/23 08:17	12/15/23 18:58	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	83.6		20 - 150				11/15/23 08:17	12/15/23 18:58	10
M2-6:2 FTS	67.3		20 - 150				11/15/23 08:17	12/15/23 18:58	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	35.9		1.0	1.0	%			11/06/23 13:36	1

Client Sample ID: SS-66-2-12-110123

Lab Sample ID: 410-149962-2

Date Collected: 11/01/23 13:55

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 72.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U	0.80	0.20	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1
9Cl-PF3ONS	0.80	U	0.80	0.20	ng/g	☼	11/15/23 08:17	12/15/23 19:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-66-2-12-110123

Lab Sample ID: 410-149962-2

Date Collected: 11/01/23 13:55

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 72.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
HFPODA	0.80	U	0.80	0.051	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorodecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoroheptanoic acid	0.14	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorohexanoic acid	0.13	J	0.20	0.059	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorononanoic acid	0.12	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorooctanesulfonic acid	0.16	J	0.20	0.051	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorooctanoic acid	0.76		0.20	0.051	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoropentanoic acid	0.13	J	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1
PES	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	33.1	cn	20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C2-PFDoDA	34.2		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C3 HFPO-DA	34.0		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C3 PFBS	33.2		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C3 PFHxS	34.5		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C4 PFBA	35.2		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C4 PFHpA	35.1		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C5 PFHxA	36.1		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C5 PFPeA	35.1		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C6 PFDA	39.8		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C7 PFUnA	36.9		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C8 FOSA	35.6		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C8 PFOA	35.2		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C8 PFOS	38.1		20 - 150	11/15/23 08:17	12/15/23 19:11	1
13C9 PFNA	37.9		20 - 150	11/15/23 08:17	12/15/23 19:11	1
d3-NMeFOSAA	34.2		20 - 150	11/15/23 08:17	12/15/23 19:11	1
d3-NMePFOSA	27.0		20 - 150	11/15/23 08:17	12/15/23 19:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-66-2-12-110123

Lab Sample ID: 410-149962-2

Date Collected: 11/01/23 13:55

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 72.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	32.4		20 - 150	11/15/23 08:17	12/15/23 19:11	1
d5-NEtPFOSA	24.3		20 - 150	11/15/23 08:17	12/15/23 19:11	1
d7-N-MeFOSE-M	29.2		20 - 150	11/15/23 08:17	12/15/23 19:11	1
d9-N-EtFOSE-M	26.7		20 - 150	11/15/23 08:17	12/15/23 19:11	1
M2-4:2 FTS	61.9		20 - 150	11/15/23 08:17	12/15/23 19:11	1
M2-6:2 FTS	52.8		20 - 150	11/15/23 08:17	12/15/23 19:11	1
M2-8:2 FTS	55.0		20 - 150	11/15/23 08:17	12/15/23 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	27.7		1.0	1.0	%			11/06/23 13:36	1

Client Sample ID: SS-67-0-2-110123

Lab Sample ID: 410-149962-3

Date Collected: 11/01/23 15:00

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 63.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
9Cl-PF3ONS	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
DONA	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
HFPODA	0.80	U	0.80	0.051	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluorobutanoic acid	0.26	J	0.80	0.10	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluorodecanoic acid	0.20		0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluorododecanoic acid	0.15	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1
Perfluoroheptanoic acid	0.33		0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 19:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-67-0-2-110123

Lab Sample ID: 410-149962-3

Date Collected: 11/01/23 15:00

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 63.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorohexanoic acid	0.16	J	0.20	0.059	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorononanoic acid	0.23		0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorooctanesulfonic acid	0.21		0.20	0.051	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorooctanoic acid	6.2		0.20	0.051	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluoropentanoic acid	0.18	J I	0.40	0.10	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorotetradecanoic acid	0.067	J	0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluorotridecanoic acid	0.13	J	0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
Perfluoroundecanoic acid	0.25		0.20	0.050	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1
PES	0.40	U	0.40	0.10	ng/g	☆	11/15/23 08:17	12/15/23 19:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	26.3	cn	20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C2-PFDoDA	28.0		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C3 HFPO-DA	30.3		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C3 PFBS	30.4		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C3 PFHxS	32.5		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C4 PFBA	30.9		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C4 PFHpA	31.5		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C5 PFHxA	32.1		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C5 PFPeA	31.3		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C6 PFDA	32.4		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C7 PFUnA	30.9		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C8 FOSA	25.0		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C8 PFOA	30.0		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C8 PFOS	32.0		20 - 150	11/15/23 08:17	12/15/23 19:37	1
13C9 PFNA	32.6		20 - 150	11/15/23 08:17	12/15/23 19:37	1
d3-NMeFOSAA	31.2		20 - 150	11/15/23 08:17	12/15/23 19:37	1
d3-NMePFOSA	20.9		20 - 150	11/15/23 08:17	12/15/23 19:37	1
d5-NEtFOSAA	29.6		20 - 150	11/15/23 08:17	12/15/23 19:37	1
d5-NEtPFOSA	20.8		20 - 150	11/15/23 08:17	12/15/23 19:37	1
d7-N-MeFOSE-M	24.1		20 - 150	11/15/23 08:17	12/15/23 19:37	1
d9-N-EtFOSE-M	22.2		20 - 150	11/15/23 08:17	12/15/23 19:37	1
M2-4:2 FTS	52.3		20 - 150	11/15/23 08:17	12/15/23 19:37	1
M2-6:2 FTS	51.1		20 - 150	11/15/23 08:17	12/15/23 19:37	1
M2-8:2 FTS	52.1		20 - 150	11/15/23 08:17	12/15/23 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	36.5		1.0	1.0	%			11/06/23 13:36	1

Client Sample ID: SS-67-2-12-110123

Lab Sample ID: 410-149962-4

Date Collected: 11/01/23 15:05

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 79.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U	0.80	0.20	ng/g	☆	11/15/23 08:17	12/15/23 20:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-67-2-12-110123

Lab Sample ID: 410-149962-4

Date Collected: 11/01/23 15:05

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 79.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
9Cl-PF3ONS	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
DONA	0.80	U	0.80	0.20	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
HFPODA	0.80	U	0.80	0.051	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorodecanoic acid	0.052	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoroheptanoic acid	0.21		0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorohexanoic acid	0.14	J	0.20	0.059	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorononanoic acid	0.14	J	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorooctanesulfonic acid	0.094	J	0.20	0.051	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorooctanoic acid	5.6		0.20	0.051	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoropentanoic acid	0.13	J I	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
PES	0.40	U	0.40	0.10	ng/g	✱	11/15/23 08:17	12/15/23 20:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	32.4	cn	20 - 150				11/15/23 08:17	12/15/23 20:03	1
13C2-PFDoDA	34.2		20 - 150				11/15/23 08:17	12/15/23 20:03	1
13C3 HFPO-DA	35.4		20 - 150				11/15/23 08:17	12/15/23 20:03	1
13C3 PFBS	38.2		20 - 150				11/15/23 08:17	12/15/23 20:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-67-2-12-110123

Lab Sample ID: 410-149962-4

Date Collected: 11/01/23 15:05

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 79.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	39.8		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C4 PFBA	37.4		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C4 PFHpA	36.8		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C5 PFHxA	36.0		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C5 PFPeA	37.5		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C6 PFDA	41.1		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C7 PFUnA	36.0		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C8 FOSA	35.5		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C8 PFOA	36.8		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C8 PFOS	36.4		20 - 150	11/15/23 08:17	12/15/23 20:03	1
13C9 PFNA	39.9		20 - 150	11/15/23 08:17	12/15/23 20:03	1
d3-NMeFOSAA	37.4		20 - 150	11/15/23 08:17	12/15/23 20:03	1
d3-NMePFOSA	26.7		20 - 150	11/15/23 08:17	12/15/23 20:03	1
d5-NEtFOSAA	34.1		20 - 150	11/15/23 08:17	12/15/23 20:03	1
d5-NEtPFOSA	22.0		20 - 150	11/15/23 08:17	12/15/23 20:03	1
d7-N-MeFOSE-M	26.6		20 - 150	11/15/23 08:17	12/15/23 20:03	1
d9-N-EtFOSE-M	22.9		20 - 150	11/15/23 08:17	12/15/23 20:03	1
M2-4:2 FTS	48.4		20 - 150	11/15/23 08:17	12/15/23 20:03	1
M2-6:2 FTS	46.8		20 - 150	11/15/23 08:17	12/15/23 20:03	1
M2-8:2 FTS	43.5		20 - 150	11/15/23 08:17	12/15/23 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.2		1.0	1.0	%			11/06/23 13:36	1

Client Sample ID: EB-SS-110123

Lab Sample ID: 410-149962-5

Date Collected: 11/01/23 17:00

Matrix: Water

Date Received: 11/03/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	7.8	U	7.8	1.9	ng/L		11/14/23 06:40	12/04/23 17:44	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.8	U	7.8	1.7	ng/L		11/14/23 06:40	12/04/23 17:44	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	19	U	19	4.9	ng/L		11/14/23 06:40	12/04/23 17:44	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	19	U	19	4.9	ng/L		11/14/23 06:40	12/04/23 17:44	1
3-Perfluoroheptylpropanoic acid	49	U	49	9.7	ng/L		11/14/23 06:40	12/04/23 17:44	1
3-Perfluoropentylpropanoic acid	49	U	49	9.7	ng/L		11/14/23 06:40	12/04/23 17:44	1
3-Perfluoropropyl propanoic acid	9.7	U	9.7	1.5	ng/L		11/14/23 06:40	12/04/23 17:44	1
6:2 Fluorotelomer sulfonic acid	7.8	U	7.8	2.4	ng/L		11/14/23 06:40	12/04/23 17:44	1
8:2 Fluorotelomer sulfonic acid	7.8	U	7.8	2.5	ng/L		11/14/23 06:40	12/04/23 17:44	1
9Cl-PF3ONS	7.8	U	7.8	0.97	ng/L		11/14/23 06:40	12/04/23 17:44	1
DONA	7.8	U	7.8	1.5	ng/L		11/14/23 06:40	12/04/23 17:44	1
HFPODA	7.8	U	7.8	1.9	ng/L		11/14/23 06:40	12/04/23 17:44	1
NEtFOSAA	1.9	U	1.9	0.68	ng/L		11/14/23 06:40	12/04/23 17:44	1
N-ethylperfluoro-1-octanesulfonamide	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
NMeFOSA	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: EB-SS-110123

Lab Sample ID: 410-149962-5

Date Collected: 11/01/23 17:00

Matrix: Water

Date Received: 11/03/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	3.9	U	3.9	1.2	ng/L		11/14/23 06:40	12/04/23 17:44	1
Nonafluoro-3,6-dioxaheptanoic acid	3.9	U	3.9	0.97	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoro-3-methoxypropanoic acid	3.9	U	3.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoro-4-methoxybutanoic acid	3.9	U	3.9	0.97	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorobutanesulfonic acid	1.9	U	1.9	0.29	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorobutanoic acid	7.8	U	7.8	1.9	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorodecanesulfonic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorodecanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorododecanesulfonic acid (PFDoS)	1.9	U	1.9	0.87	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorododecanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoroheptanesulfonic acid	1.9	U	1.9	0.39	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoroheptanoic acid	1.9	U	1.9	0.51	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorohexanesulfonic acid	1.9	U	1.9	0.55	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorohexanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorononanesulfonic acid	1.9	U	1.9	0.39	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorononanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorooctanesulfonamide	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorooctanesulfonic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorooctanoic acid	1.9	U	1.9	0.62	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoropentanesulfonic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoropentanoic acid	3.9	U	3.9	0.97	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorotetradecanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluorotridecanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
Perfluoroundecanoic acid	1.9	U	1.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1
PES	3.9	U	3.9	0.49	ng/L		11/14/23 06:40	12/04/23 17:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	77.5		60 - 200	11/14/23 06:40	12/04/23 17:44	1
d9-N-EtFOSE-M	70.3		10 - 150	11/14/23 06:40	12/04/23 17:44	1
d3-NMePFOSA	61.4		15 - 130	11/14/23 06:40	12/04/23 17:44	1
d7-N-MeFOSE-M	76.4		10 - 150	11/14/23 06:40	12/04/23 17:44	1
d5-NEtPFOSA	60.6		10 - 130	11/14/23 06:40	12/04/23 17:44	1
M2-6:2 FTS	84.9		60 - 200	11/14/23 06:40	12/04/23 17:44	1
M2-8:2 FTS	85.3		50 - 200	11/14/23 06:40	12/04/23 17:44	1
13C2 PFTeDA	70.6		10 - 130	11/14/23 06:40	12/04/23 17:44	1
13C3 HFPO-DA	72.9		25 - 160	11/14/23 06:40	12/04/23 17:44	1
13C3 PFBS	77.6		55 - 150	11/14/23 06:40	12/04/23 17:44	1
13C4 PFBA	74.4		10 - 130	11/14/23 06:40	12/04/23 17:44	1
13C4 PFHpA	73.0		55 - 150	11/14/23 06:40	12/04/23 17:44	1
13C5 PFPeA	69.1		35 - 150	11/14/23 06:40	12/04/23 17:44	1
13C8 PFOA	82.3		60 - 140	11/14/23 06:40	12/04/23 17:44	1
13C8 PFOS	78.2		45 - 140	11/14/23 06:40	12/04/23 17:44	1
d3-NMeFOSAA	83.1		45 - 200	11/14/23 06:40	12/04/23 17:44	1
d5-NEtFOSAA	82.4		10 - 200	11/14/23 06:40	12/04/23 17:44	1
13C3 PFHxS	78.6		55 - 150	11/14/23 06:40	12/04/23 17:44	1
13C5 PFHxA	71.2		55 - 150	11/14/23 06:40	12/04/23 17:44	1
13C6 PFDA	81.6		50 - 140	11/14/23 06:40	12/04/23 17:44	1
13C7 PFUnA	77.7		30 - 140	11/14/23 06:40	12/04/23 17:44	1
13C8 FOSA	78.0		30 - 130	11/14/23 06:40	12/04/23 17:44	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: EB-SS-110123

Lab Sample ID: 410-149962-5

Date Collected: 11/01/23 17:00

Matrix: Water

Date Received: 11/03/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2-PFDoDA	78.8		10 - 150	11/14/23 06:40	12/04/23 17:44	1
13C9 PFNA	83.7		55 - 140	11/14/23 06:40	12/04/23 17:44	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	PFD _o DA (20-150)	HFPODA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	PFBA (20-150)	C4PFHA (20-150)	13C5PHA (20-150)
410-149962-1	SS-66-0-2-110123	21.5 cn	77.5	78.3	88.7	78.7	83.2	79.3	80.1
410-149962-1 - DL	SS-66-0-2-110123								
410-149962-2	SS-66-2-12-110123	33.1 cn	34.2	34.0	33.2	34.5	35.2	35.1	36.1
410-149962-3	SS-67-0-2-110123	26.3 cn	28.0	30.3	30.4	32.5	30.9	31.5	32.1
410-149962-4	SS-67-2-12-110123	32.4 cn	34.2	35.4	38.2	39.8	37.4	36.8	36.0
LCS 410-443599/2-A	Lab Control Sample	15.8 *-5-	81.5	82.0	85.1	83.5	84.0	83.2	85.0
LLCS 410-443599/3-A	Lab Control Sample	27.5	84.9	81.3	90.7	85.9	84.6	81.5	80.1
MB 410-443599/1-A	Method Blank	22.5	84.6	87.4	87.4	88.2	86.5	83.9	82.6
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFOS (20-150)
410-149962-1	SS-66-0-2-110123	78.0	89.8	87.3	89.2	80.1	88.6	88.4	92.4
410-149962-1 - DL	SS-66-0-2-110123								
410-149962-2	SS-66-2-12-110123	35.1	39.8	36.9	35.6	35.2	38.1	37.9	34.2
410-149962-3	SS-67-0-2-110123	31.3	32.4	30.9	25.0	30.0	32.0	32.6	31.2
410-149962-4	SS-67-2-12-110123	37.5	41.1	36.0	35.5	36.8	36.4	39.9	37.4
LCS 410-443599/2-A	Lab Control Sample	83.3	96.5	87.7	85.8	83.0	92.3	88.3	78.3
LLCS 410-443599/3-A	Lab Control Sample	81.6	99.0	88.7	85.3	86.7	91.1	88.5	81.5
MB 410-443599/1-A	Method Blank	84.1	94.0	89.4	86.9	84.7	89.1	82.7	67.9
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d3NMFSA (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-149962-1	SS-66-0-2-110123	67.5	84.8	63.2	68.6	62.2			142
410-149962-1 - DL	SS-66-0-2-110123						83.6	67.3	
410-149962-2	SS-66-2-12-110123	27.0	32.4	24.3	29.2	26.7	61.9	52.8	55.0
410-149962-3	SS-67-0-2-110123	20.9	29.6	20.8	24.1	22.2	52.3	51.1	52.1
410-149962-4	SS-67-2-12-110123	26.7	34.1	22.0	26.6	22.9	48.4	46.8	43.5
LCS 410-443599/2-A	Lab Control Sample	54.1	73.6	50.5	66.0	63.1	87.9	87.7	81.7
LLCS 410-443599/3-A	Lab Control Sample	52.8	75.9	51.4	71.4	66.3	94.3	93.8	81.5
MB 410-443599/1-A	Method Blank	61.8	75.4	57.8	72.7	64.1	90.2	94.1	76.9
Surrogate Legend									
PFTDA = 13C2 PFTeDA									
PFD _o DA = 13C2-PFD _o DA									
HFPODA = 13C3 HFPO-DA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
PFBA = 13C4 PFBA									
C4PFHA = 13C4 PFHpA									
13C5PHA = 13C5 PFHxA									
PFPeA = 13C5 PFPeA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFOSA = 13C8 FOSA									
C8PFOA = 13C8 PFOA									
C8PFOS = 13C8 PFOS									
C9PFNA = 13C9 PFNA									
d3NMFOS = d3-NMeFOSAA									
d3NMFSA = d3-NMePFOSA									

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-149962-1

Project/Site: Taconic - Data Gap

d5NEFOS = d5-NEtFOSAA

d5NPFSA = d5-NEtPFOSA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (60-200)	NEFM (10-150)	d3NMFSa (15-130)	NMFM (10-150)	d5NPFSA (10-130)	M262FTS (60-200)	M282FTS (50-200)	PFTDA (10-130)
410-149962-5	EB-SS-110123	77.5	70.3	61.4	76.4	60.6	84.9	85.3	70.6
MB 410-443040/1-A	Method Blank	83.6	73.7	57.2	75.0	58.7	77.8	79.3	83.3

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-160)	C3PFBS (55-150)	PFBA (10-130)	C4PFHA (55-150)	PFPeA (35-150)	C8PFOA (60-140)	C8PFOS (45-140)	d3NMFOS (45-200)
410-149962-5	EB-SS-110123	72.9	77.6	74.4	73.0	69.1	82.3	78.2	83.1
MB 410-443040/1-A	Method Blank	78.7	80.9	75.3	77.6	76.0	83.4	77.7	77.0

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (10-200)	C3PFHS (55-150)	13C5PHA (55-150)	C6PFDA (50-140)	13C7PUA (30-140)	PFOSA (30-130)	PFDODA (10-150)	C9PFNA (55-140)
410-149962-5	EB-SS-110123	82.4	78.6	71.2	81.6	77.7	78.0	78.8	83.7
MB 410-443040/1-A	Method Blank	78.5	73.5	79.9	91.6	90.2	76.6	86.2	84.1

Surrogate Legend

M242FTS = M2-4:2 FTS

NEFM = d9-N-EtFOSE-M

d3NMFSa = d3-NMePFOSA

NMFM = d7-N-MeFOSE-M

d5NPFSA = d5-NEtPFOSA

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

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

C3PFHS = 13C3 PFHxS

13C5PHA = 13C5 PFHxA

C6PFDA = 13C6 PFDA

13C7PUA = 13C7 PFUnA

PFOSA = 13C8 FOSA

PFDODA = 13C2-PFDODA

C9PFNA = 13C9 PFNA

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	NEFM (10-150)	NMFM (10-150)	d5NPFSA (10-130)	PFTDA (10-130)	HFPODA (25-160)	C3PFBS (25-150)	PFBA (10-130)	C4PFHA (40-150)
LCS 410-443040/2-A	Lab Control Sample	76.5	78.6	56.3	82.5	74.7	84.3	77.9	79.3
LLCS 410-443040/3-A	Lab Control Sample	72.6	76.5	60.0	82.9	83.3	81.4	77.2	82.4
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (40-150)	C8PFOA (30-140)	C8PFOS (20-140)	d5NEFOS (10-200)	C3PFHS (25-150)	13C5PHA (40-150)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 410-443040/2-A	Lab Control Sample	76.3	69.3	80.8	77.3	79.1	73.2	83.3	80.2
LLCS 410-443040/3-A	Lab Control Sample	78.5	83.7	80.4	82.0	82.1	80.7	77.7	86.1
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-130)	PFDODA (10-150)	C9PFNA (30-140)	d3NMFOS (10-200)	d3NMFSA (10-130)	M242FTS (25-200)	M262FTS (25-200)	M282FTS (25-200)
LCS 410-443040/2-A	Lab Control Sample	78.3	79.4	88.3	86.1	55.9	83.5	71.9	83.5
LLCS 410-443040/3-A	Lab Control Sample	78.4	82.7	83.6	84.3	62.3	88.1	78.1	85.1

Surrogate Legend

NEFM = d9-N-EtFOSE-M
NMFM = d7-N-MeFOSE-M
d5NPFSA = d5-NEtPFOSA
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d5NEFOS = d5-NEtFOSAA
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
PFDODA = 13C2-PFDODA
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-443040/1-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 443040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	8.0	U	8.0	2.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	1.7	ng/L		11/14/23 06:40	12/04/23 13:24	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
3-Perfluoroheptylpropanoic acid	50	U	50	10	ng/L		11/14/23 06:40	12/04/23 13:24	1
3-Perfluoropentylpropanoic acid	50	U	50	10	ng/L		11/14/23 06:40	12/04/23 13:24	1
3-Perfluoropropyl propanoic acid	10	U	10	1.5	ng/L		11/14/23 06:40	12/04/23 13:24	1
6:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.5	ng/L		11/14/23 06:40	12/04/23 13:24	1
8:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.6	ng/L		11/14/23 06:40	12/04/23 13:24	1
9CI-PF3ONS	8.0	U	8.0	1.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
DONA	8.0	U	8.0	1.5	ng/L		11/14/23 06:40	12/04/23 13:24	1
HFPODA	8.0	U	8.0	2.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
NEtFOSAA	2.0	U	2.0	0.70	ng/L		11/14/23 06:40	12/04/23 13:24	1
N-ethylperfluoro-1-octanesulfonamide	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
NMeFOSA	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
NMeFOSAA	4.0	U	4.0	1.2	ng/L		11/14/23 06:40	12/04/23 13:24	1
Nonafluoro-3,6-dioxaheptanoic acid	4.0	U	4.0	1.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoro-3-methoxypropanoic acid	4.0	U	4.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoro-4-methoxybutanoic acid	4.0	U	4.0	1.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorobutanesulfonic acid	2.0	U	2.0	0.30	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorobutanoic acid	8.0	U	8.0	2.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorodecanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorodecanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.90	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorododecanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoroheptanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoroheptanoic acid	2.0	U	2.0	0.52	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorohexanesulfonic acid	2.0	U	2.0	0.57	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorohexanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorononanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorononanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorooctanesulfonamide	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorooctanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorooctanoic acid	2.0	U	2.0	0.64	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoropentanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoropentanoic acid	4.0	U	4.0	1.0	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorotetradecanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluorotridecanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
Perfluoroundecanoic acid	2.0	U	2.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1
PES	4.0	U	4.0	0.50	ng/L		11/14/23 06:40	12/04/23 13:24	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	83.3		10 - 130	11/14/23 06:40	12/04/23 13:24	1
13C3 HFPO-DA	78.7		25 - 160	11/14/23 06:40	12/04/23 13:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-443040/1-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 443040

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	80.9		55 - 150	11/14/23 06:40	12/04/23 13:24	1
13C4 PFBA	75.3		10 - 130	11/14/23 06:40	12/04/23 13:24	1
13C4 PFHpA	77.6		55 - 150	11/14/23 06:40	12/04/23 13:24	1
13C5 PFPeA	76.0		35 - 150	11/14/23 06:40	12/04/23 13:24	1
13C8 PFOA	83.4		60 - 140	11/14/23 06:40	12/04/23 13:24	1
13C8 PFOS	77.7		45 - 140	11/14/23 06:40	12/04/23 13:24	1
13C3 PFHxS	73.5		55 - 150	11/14/23 06:40	12/04/23 13:24	1
13C5 PFHxA	79.9		55 - 150	11/14/23 06:40	12/04/23 13:24	1
13C6 PFDA	91.6		50 - 140	11/14/23 06:40	12/04/23 13:24	1
13C7 PFUnA	90.2		30 - 140	11/14/23 06:40	12/04/23 13:24	1
13C8 FOSA	76.6		30 - 130	11/14/23 06:40	12/04/23 13:24	1
13C2-PFDoDA	86.2		10 - 150	11/14/23 06:40	12/04/23 13:24	1
13C9 PFNA	84.1		55 - 140	11/14/23 06:40	12/04/23 13:24	1
d3-NMeFOSAA	77.0		45 - 200	11/14/23 06:40	12/04/23 13:24	1
d3-NMePFOSA	57.2		15 - 130	11/14/23 06:40	12/04/23 13:24	1
d5-NEtFOSAA	78.5		10 - 200	11/14/23 06:40	12/04/23 13:24	1
d5-NEtPFOSA	58.7		10 - 130	11/14/23 06:40	12/04/23 13:24	1
d7-N-MeFOSE-M	75.0		10 - 150	11/14/23 06:40	12/04/23 13:24	1
d9-N-EtFOSE-M	73.7		10 - 150	11/14/23 06:40	12/04/23 13:24	1
M2-4:2 FTS	83.6		60 - 200	11/14/23 06:40	12/04/23 13:24	1
M2-6:2 FTS	77.8		60 - 200	11/14/23 06:40	12/04/23 13:24	1
M2-8:2 FTS	79.3		50 - 200	11/14/23 06:40	12/04/23 13:24	1

Lab Sample ID: LCS 410-443040/2-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	94.2	83.6		ng/L		89	46 - 156
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	94.0		ng/L		100	67 - 146
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	255		ng/L		102	69 - 137
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	249		ng/L		99	71 - 136
3-Perfluoroheptylpropanoic acid	626	612		ng/L		98	50 - 138
3-Perfluoropentylpropanoic acid	626	606		ng/L		97	63 - 134
3-Perfluoropropyl propanoic acid	125	118		ng/L		94	62 - 129
6:2 Fluorotelomer sulfonic acid	95.2	104		ng/L		109	61 - 151
8:2 Fluorotelomer sulfonic acid	96.2	89.6		ng/L		93	63 - 152
9Cl-PF3ONS	93.2	83.8		ng/L		90	56 - 156
DONA	94.2	78.3		ng/L		83	68 - 146
HFPODA	100	92.2		ng/L		92	63 - 144
NEtFOSAA	25.0	27.3		ng/L		109	59 - 146
N-ethylperfluoro-1-octanesulfonamide	25.0	25.8		ng/L		103	65 - 139
NMeFOSA	25.0	25.4		ng/L		101	63 - 145
NMeFOSAA	25.0	23.0		ng/L		92	58 - 144

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-443040/2-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid	50.1	56.9		ng/L		114	48 - 161
Perfluoro-3-methoxypropanoic acid	50.1	46.4		ng/L		93	51 - 145
Perfluoro-4-methoxybutanoic acid	50.1	50.9		ng/L		102	55 - 148
Perfluorobutanesulfonic acid	22.2	21.1		ng/L		95	62 - 144
Perfluorobutanoic acid	100	100		ng/L		100	58 - 148
Perfluorodecanesulfonic acid	24.2	23.4		ng/L		97	51 - 147
Perfluorodecanoic acid	25.0	23.8		ng/L		95	52 - 147
Perfluorododecanesulfonic acid (PFDoS)	24.3	22.2		ng/L		91	36 - 145
Perfluorododecanoic acid	25.0	24.1		ng/L		96	64 - 142
Perfluoroheptanesulfonic acid	23.9	21.1		ng/L		88	55 - 152
Perfluoroheptanoic acid	25.0	23.0		ng/L		92	54 - 154
Perfluorohexanesulfonic acid	22.9	22.1		ng/L		97	57 - 146
Perfluorohexanoic acid	25.0	27.1		ng/L		108	55 - 152
Perfluorononanesulfonic acid	24.1	24.0		ng/L		100	52 - 148
Perfluorononanoic acid	25.0	30.4		ng/L		122	59 - 149
Perfluorooctanesulfonamide	25.0	24.0		ng/L		96	61 - 148
Perfluorooctanesulfonic acid	23.2	23.2		ng/L		100	58 - 149
Perfluorooctanoic acid	25.0	35.0		ng/L		140	52 - 161
Perfluoropentanesulfonic acid	23.6	23.1		ng/L		98	59 - 151
Perfluoropentanoic acid	50.1	52.0		ng/L		104	54 - 152
Perfluorotetradecanoic acid	25.0	25.1		ng/L		100	47 - 161
Perfluorotridecanoic acid	25.0	26.1		ng/L		104	49 - 148
Perfluoroundecanoic acid	25.0	24.6		ng/L		98	48 - 159
PES	44.6	45.1		ng/L		101	56 - 151

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	82.5		10 - 130
13C3 HFPO-DA	74.7		25 - 160
13C3 PFBS	84.3		25 - 150
13C4 PFBA	77.9		10 - 130
13C4 PFHpA	79.3		40 - 150
13C5 PFPeA	76.3		40 - 150
13C8 PFOA	69.3		30 - 140
13C8 PFOS	80.8		20 - 140
13C3 PFHxS	79.1		25 - 150
13C5 PFHxA	73.2		40 - 150
13C6 PFDA	83.3		20 - 140
13C7 PFUnA	80.2		20 - 140
13C8 FOSA	78.3		10 - 130
13C2-PFDoDA	79.4		10 - 150
13C9 PFNA	88.3		30 - 140
d3-NMeFOSAA	86.1		10 - 200
d3-NMePFOSA	55.9		10 - 130
d5-NEtFOSAA	77.3		10 - 200
d5-NEtPFOSA	56.3		10 - 130
d7-N-MeFOSE-M	78.6		10 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-443040/2-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443040

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	76.5		10 - 150
M2-4:2 FTS	83.5		25 - 200
M2-6:2 FTS	71.9		25 - 200
M2-8:2 FTS	83.5		25 - 200

Lab Sample ID: LLCS 410-443040/3-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443040

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	15.1	12.7		ng/L		85	36 - 158
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	13.1		ng/L		88	52 - 158
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	38.7		ng/L		97	60 - 147
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	37.9		ng/L		95	56 - 151
3-Perfluoroheptylpropanoic acid	100	88.7		ng/L		89	36 - 149
3-Perfluoropentylpropanoic acid	100	83.2		ng/L		83	39 - 156
3-Perfluoropropyl propanoic acid	20.0	18.0		ng/L		90	32 - 161
6:2 Fluorotelomer sulfonic acid	15.2	14.9		ng/L		98	48 - 158
8:2 Fluorotelomer sulfonic acid	15.4	13.8		ng/L		90	46 - 165
9Cl-PF3ONS	14.9	13.3		ng/L		90	44 - 167
DONA	15.1	12.7		ng/L		84	61 - 148
HFPODA	16.0	13.7		ng/L		86	58 - 154
NEtFOSAA	4.00	3.89		ng/L		97	51 - 154
N-ethylperfluoro-1-octanesulfonamide	4.00	3.70		ng/L		92	49 - 156
NMeFOSA	4.00	3.73		ng/L		93	54 - 155
NMeFOSAA	4.00	3.57	J	ng/L		89	32 - 160
Nonafluoro-3,6-dioxaheptanoic acid	8.00	6.58		ng/L		82	47 - 160
Perfluoro-3-methoxypropanoic acid	8.00	7.11		ng/L		89	48 - 150
Perfluoro-4-methoxybutanoic acid	8.00	7.37		ng/L		92	49 - 154
Perfluorobutanesulfonic acid	3.55	3.27		ng/L		92	63 - 145
Perfluorobutanoic acid	16.0	14.2		ng/L		89	44 - 157
Perfluorodecanesulfonic acid	3.86	3.25		ng/L		84	50 - 144
Perfluorodecanoic acid	4.00	4.20		ng/L		105	43 - 158
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.17		ng/L		82	30 - 138
Perfluorododecanoic acid	4.00	3.73		ng/L		93	60 - 141
Perfluoroheptanesulfonic acid	3.81	3.34		ng/L		88	51 - 150
Perfluoroheptanoic acid	4.00	3.50		ng/L		88	56 - 150
Perfluorohexanesulfonic acid	3.66	3.38		ng/L		92	44 - 158
Perfluorohexanoic acid	4.00	3.74		ng/L		93	62 - 149
Perfluorononanesulfonic acid	3.85	3.51		ng/L		91	46 - 151
Perfluorononanoic acid	4.00	4.66		ng/L		116	53 - 157

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-443040/3-A

Matrix: Water

Analysis Batch: 449790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443040

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	4.00	3.48		ng/L		87	47 - 163
Perfluorooctanesulfonic acid	3.71	3.41		ng/L		92	43 - 162
Perfluorooctanoic acid	4.00	5.14		ng/L		128	57 - 161
Perfluoropentanesulfonic acid	3.76	3.33		ng/L		89	58 - 144
Perfluoropentanoic acid	8.00	7.92		ng/L		99	57 - 148
Perfluorotetradecanoic acid	4.00	3.62		ng/L		91	52 - 156
Perfluorotridecanoic acid	4.00	3.74		ng/L		93	52 - 140
Perfluoroundecanoic acid	4.00	3.61		ng/L		90	50 - 155
PES	7.12	6.30		ng/L		88	56 - 144

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFTeDA	82.9		10 - 130
13C3 HFPO-DA	83.3		25 - 160
13C3 PFBS	81.4		25 - 150
13C4 PFBA	77.2		10 - 130
13C4 PFHpA	82.4		40 - 150
13C5 PFPeA	78.5		40 - 150
13C8 PFOA	83.7		30 - 140
13C8 PFOS	80.4		20 - 140
13C3 PFHxS	82.1		25 - 150
13C5 PFHxA	80.7		40 - 150
13C6 PFDA	77.7		20 - 140
13C7 PFUnA	86.1		20 - 140
13C8 FOSA	78.4		10 - 130
13C2-PFDoDA	82.7		10 - 150
13C9 PFNA	83.6		30 - 140
d3-NMeFOSAA	84.3		10 - 200
d3-NMePFOSA	62.3		10 - 130
d5-NEtFOSAA	82.0		10 - 200
d5-NEtPFOSA	60.0		10 - 130
d7-N-MeFOSE-M	76.5		10 - 150
d9-N-EtFOSE-M	72.6		10 - 150
M2-4:2 FTS	88.1		25 - 200
M2-6:2 FTS	78.1		25 - 200
M2-8:2 FTS	85.1		25 - 200

Lab Sample ID: MB 410-443599/1-A

Matrix: Solid

Analysis Batch: 450625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 443599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U	0.80	0.20	ng/g		11/15/23 08:17	12/06/23 16:19	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g		11/15/23 08:17	12/06/23 16:19	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		11/15/23 08:17	12/06/23 16:19	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		11/15/23 08:17	12/06/23 16:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-443599/1-A

Matrix: Solid

Analysis Batch: 450625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 443599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g		11/15/23 08:17	12/06/23 16:19	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g		11/15/23 08:17	12/06/23 16:19	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g		11/15/23 08:17	12/06/23 16:19	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		11/15/23 08:17	12/06/23 16:19	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		11/15/23 08:17	12/06/23 16:19	1
9Cl-PF3ONS	0.80	U	0.80	0.20	ng/g		11/15/23 08:17	12/06/23 16:19	1
DONA	0.80	U	0.80	0.20	ng/g		11/15/23 08:17	12/06/23 16:19	1
HFPODA	0.80	U	0.80	0.051	ng/g		11/15/23 08:17	12/06/23 16:19	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
NMeFOSA	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorodecanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoroheptanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorohexanoic acid	0.20	U	0.20	0.059	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorononanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorooctanesulfonic acid	0.20	U	0.20	0.051	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorooctanoic acid	0.20	U	0.20	0.051	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoropentanoic acid	0.40	U	0.40	0.10	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g		11/15/23 08:17	12/06/23 16:19	1
PES	0.40	U	0.40	0.10	ng/g		11/15/23 08:17	12/06/23 16:19	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	22.5		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C3 HFPO-DA	87.4		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C3 PFBS	87.4		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C4 PFBA	86.5		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C4 PFHpA	83.9		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C5 PFPeA	84.1		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C8 PFOA	84.7		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C8 PFOS	89.1		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C3 PFHxS	88.2		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C5 PFHxA	82.6		20 - 150	11/15/23 08:17	12/06/23 16:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-443599/1-A

Matrix: Solid

Analysis Batch: 450625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 443599

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	94.0		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C7 PFUnA	89.4		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C8 FOSA	86.9		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C2-PFDoDA	84.6		20 - 150	11/15/23 08:17	12/06/23 16:19	1
13C9 PFNA	82.7		20 - 150	11/15/23 08:17	12/06/23 16:19	1
d3-NMeFOSAA	67.9		20 - 150	11/15/23 08:17	12/06/23 16:19	1
d3-NMePFOSA	61.8		20 - 150	11/15/23 08:17	12/06/23 16:19	1
d5-NEtFOSAA	75.4		20 - 150	11/15/23 08:17	12/06/23 16:19	1
d5-NEtPFOSA	57.8		20 - 150	11/15/23 08:17	12/06/23 16:19	1
d7-N-MeFOSE-M	72.7		20 - 150	11/15/23 08:17	12/06/23 16:19	1
d9-N-EtFOSE-M	64.1		20 - 150	11/15/23 08:17	12/06/23 16:19	1
M2-4:2 FTS	90.2		20 - 150	11/15/23 08:17	12/06/23 16:19	1
M2-6:2 FTS	94.1		20 - 150	11/15/23 08:17	12/06/23 16:19	1
M2-8:2 FTS	76.9		20 - 150	11/15/23 08:17	12/06/23 16:19	1

Lab Sample ID: LCS 410-443599/2-A

Matrix: Solid

Analysis Batch: 450625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	9.42	7.20		ng/g		76	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.39	9.02		ng/g		96	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	25.0		ng/g		100	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	25.3		ng/g		101	40 - 150
3-Perfluoroheptylpropanoic acid	62.6	56.1		ng/g		90	40 - 150
3-Perfluoropentylpropanoic acid	62.6	59.3		ng/g		95	40 - 150
3-Perfluoropropyl propanoic acid	12.5	13.1		ng/g		104	40 - 150
6:2 Fluorotelomer sulfonic acid	9.52	9.26		ng/g		97	40 - 150
8:2 Fluorotelomer sulfonic acid	9.62	8.54		ng/g		89	40 - 150
9Cl-PF3ONS	9.32	8.02		ng/g		86	40 - 150
DONA	9.42	11.0		ng/g		116	40 - 150
HFPODA	10.0	10.2		ng/g		102	40 - 150
NEtFOSAA	2.50	2.38		ng/g		95	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	2.35		ng/g		94	40 - 150
NMeFOSA	2.50	2.33		ng/g		93	40 - 150
NMeFOSAA	2.50	2.40		ng/g		96	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid	5.01	5.34		ng/g		107	40 - 150
Perfluoro-3-methoxypropanoic acid	5.01	5.30		ng/g		106	40 - 150
Perfluoro-4-methoxybutanoic acid	5.01	4.97		ng/g		99	40 - 150
Perfluorobutanesulfonic acid	2.22	2.47		ng/g		111	40 - 150
Perfluorobutanoic acid	10.0	10.2		ng/g		102	40 - 150
Perfluorodecanesulfonic acid	2.42	1.97		ng/g		82	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-443599/2-A

Matrix: Solid

Analysis Batch: 450625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid	2.50	2.36		ng/g		94	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.18		ng/g		49	40 - 150
Perfluorododecanoic acid	2.50	2.56		ng/g		102	40 - 150
Perfluoroheptanesulfonic acid	2.39	2.11		ng/g		88	40 - 150
Perfluoroheptanoic acid	2.50	2.62		ng/g		105	40 - 150
Perfluorohexanesulfonic acid	2.29	2.44		ng/g		107	40 - 150
Perfluorohexanoic acid	2.50	2.46		ng/g		98	40 - 150
Perfluorononanesulfonic acid	2.41	2.06		ng/g		85	40 - 150
Perfluorononanoic acid	2.50	3.11		ng/g		124	40 - 150
Perfluorooctanesulfonamide	2.50	2.14		ng/g		86	40 - 150
Perfluorooctanesulfonic acid	2.32	2.01		ng/g		87	40 - 150
Perfluorooctanoic acid	2.50	3.38		ng/g		135	40 - 150
Perfluoropentanesulfonic acid	2.36	2.67		ng/g		113	40 - 150
Perfluoropentanoic acid	5.01	5.21		ng/g		104	40 - 150
Perfluorotetradecanoic acid	2.50	2.39		ng/g		96	40 - 150
Perfluorotridecanoic acid	2.50	2.61		ng/g		104	40 - 150
Perfluoroundecanoic acid	2.50	2.46		ng/g		98	40 - 150
PES	4.46	4.33		ng/g		97	40 - 150

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	15.8	*5-	20 - 150
13C3 HFPO-DA	82.0		20 - 150
13C3 PFBS	85.1		20 - 150
13C4 PFBA	84.0		20 - 150
13C4 PFHpA	83.2		20 - 150
13C5 PFPeA	83.3		20 - 150
13C8 PFOA	83.0		20 - 150
13C8 PFOS	92.3		20 - 150
13C3 PFHxS	83.5		20 - 150
13C5 PFHxA	85.0		20 - 150
13C6 PFDA	96.5		20 - 150
13C7 PFUnA	87.7		20 - 150
13C8 FOSA	85.8		20 - 150
13C2-PFDoDA	81.5		20 - 150
13C9 PFNA	88.3		20 - 150
d3-NMeFOSAA	78.3		20 - 150
d3-NMePFOSA	54.1		20 - 150
d5-NEtFOSAA	73.6		20 - 150
d5-NEtPFOSA	50.5		20 - 150
d7-N-MeFOSE-M	66.0		20 - 150
d9-N-EtFOSE-M	63.1		20 - 150
M2-4:2 FTS	87.9		20 - 150
M2-6:2 FTS	87.7		20 - 150
M2-8:2 FTS	81.7		20 - 150

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-443599/3-A

Matrix: Solid

Analysis Batch: 450625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 443599

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11CI-PF3OUdS	1.51	1.17		ng/g		78	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.50	1.16		ng/g		77	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	3.73		ng/g		93	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	3.77		ng/g		94	40 - 150
3-Perfluoroheptylpropanoic acid	10.0	8.18		ng/g		82	40 - 150
3-Perfluoropentylpropanoic acid	10.0	8.96		ng/g		89	40 - 150
3-Perfluoropropyl propanoic acid	2.00	1.87		ng/g		93	40 - 150
6:2 Fluorotelomer sulfonic acid	1.52	1.44		ng/g		95	40 - 150
8:2 Fluorotelomer sulfonic acid	1.54	1.25		ng/g		81	40 - 150
9CI-PF3ONS	1.49	1.33		ng/g		89	40 - 150
DONA	1.51	2.00	I	ng/g		133	40 - 150
HFPODA	1.60	1.49		ng/g		93	40 - 150
NEtFOSAA	0.400	0.357		ng/g		89	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.351		ng/g		88	40 - 150
NMeFOSA	0.400	0.365		ng/g		91	40 - 150
NMeFOSAA	0.400	0.359		ng/g		90	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid	0.800	0.929		ng/g		116	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.773		ng/g		97	40 - 150
Perfluoro-4-methoxybutanoic acid	0.800	0.700		ng/g		87	40 - 150
Perfluorobutanesulfonic acid	0.355	0.318		ng/g		90	40 - 150
Perfluorobutanoic acid	1.60	1.33		ng/g		83	40 - 150
Perfluorodecanesulfonic acid	0.386	0.283		ng/g		73	40 - 150
Perfluorodecanoic acid	0.400	0.349		ng/g		87	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.202		ng/g		52	40 - 150
Perfluorododecanoic acid	0.400	0.374		ng/g		94	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.309		ng/g		81	40 - 150
Perfluoroheptanoic acid	0.400	0.394		ng/g		99	40 - 150
Perfluorohexanesulfonic acid	0.366	0.328		ng/g		90	40 - 150
Perfluorohexanoic acid	0.400	0.367		ng/g		92	40 - 150
Perfluorononanesulfonic acid	0.385	0.306		ng/g		80	40 - 150
Perfluorononanoic acid	0.400	0.453		ng/g		113	40 - 150
Perfluorooctanesulfonamide	0.400	0.311		ng/g		78	40 - 150
Perfluorooctanesulfonic acid	0.371	0.334		ng/g		90	40 - 150
Perfluorooctanoic acid	0.400	0.453		ng/g		113	40 - 150
Perfluoropentanesulfonic acid	0.376	0.361		ng/g		96	40 - 150
Perfluoropentanoic acid	0.800	0.772		ng/g		96	40 - 150
Perfluorotetradecanoic acid	0.400	0.337		ng/g		84	40 - 150
Perfluorotridecanoic acid	0.400	0.368		ng/g		92	40 - 150
Perfluoroundecanoic acid	0.400	0.371		ng/g		93	40 - 150
PES	0.712	0.670		ng/g		94	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	27.5		20 - 150
13C3 HFPO-DA	81.3		20 - 150
13C3 PFBS	90.7		20 - 150
13C4 PFBA	84.6		20 - 150
13C4 PFHpA	81.5		20 - 150
13C5 PFPeA	81.6		20 - 150
13C8 PFOA	86.7		20 - 150
13C8 PFOS	91.1		20 - 150
13C3 PFHxS	85.9		20 - 150
13C5 PFHxA	80.1		20 - 150
13C6 PFDA	99.0		20 - 150
13C7 PFUnA	88.7		20 - 150
13C8 FOSA	85.3		20 - 150
13C2-PFDoDA	84.9		20 - 150
13C9 PFNA	88.5		20 - 150
d3-NMeFOSAA	81.5		20 - 150
d3-NMePFOSA	52.8		20 - 150
d5-NEtFOSAA	75.9		20 - 150
d5-NEtPFOSA	51.4		20 - 150
d7-N-MeFOSE-M	71.4		20 - 150
d9-N-EtFOSE-M	66.3		20 - 150
M2-4:2 FTS	94.3		20 - 150
M2-6:2 FTS	93.8		20 - 150
M2-8:2 FTS	81.5		20 - 150

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

LCMS

Prep Batch: 443040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149962-5	EB-SS-110123	Total/NA	Water	1633	
MB 410-443040/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-443040/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-443040/3-A	Lab Control Sample	Total/NA	Water	1633	

Prep Batch: 443599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149962-1 - DL	SS-66-0-2-110123	Total/NA	Solid	1633 Shake	
410-149962-1	SS-66-0-2-110123	Total/NA	Solid	1633 Shake	
410-149962-2	SS-66-2-12-110123	Total/NA	Solid	1633 Shake	
410-149962-3	SS-67-0-2-110123	Total/NA	Solid	1633 Shake	
410-149962-4	SS-67-2-12-110123	Total/NA	Solid	1633 Shake	
MB 410-443599/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-443599/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-443599/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 449790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149962-5	EB-SS-110123	Total/NA	Water	Draft-4 1633	443040
MB 410-443040/1-A	Method Blank	Total/NA	Water	Draft-4 1633	443040
LCS 410-443040/2-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	443040
LLCS 410-443040/3-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	443040

Analysis Batch: 450625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149962-1	SS-66-0-2-110123	Total/NA	Solid	Draft-4 1633	443599
MB 410-443599/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	443599
LCS 410-443599/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	443599
LLCS 410-443599/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	443599

Analysis Batch: 454672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149962-1 - DL	SS-66-0-2-110123	Total/NA	Solid	Draft-4 1633	443599
410-149962-2	SS-66-2-12-110123	Total/NA	Solid	Draft-4 1633	443599
410-149962-3	SS-67-0-2-110123	Total/NA	Solid	Draft-4 1633	443599
410-149962-4	SS-67-2-12-110123	Total/NA	Solid	Draft-4 1633	443599

General Chemistry

Analysis Batch: 440073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149962-1	SS-66-0-2-110123	Total/NA	Solid	Moisture	
410-149962-2	SS-66-2-12-110123	Total/NA	Solid	Moisture	
410-149962-3	SS-67-0-2-110123	Total/NA	Solid	Moisture	
410-149962-4	SS-67-2-12-110123	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-66-0-2-110123

Lab Sample ID: 410-149962-1

Date Collected: 11/01/23 13:50

Matrix: Solid

Date Received: 11/03/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	440073	UVJN	ELLE	11/06/23 13:36

Client Sample ID: SS-66-0-2-110123

Lab Sample ID: 410-149962-1

Date Collected: 11/01/23 13:50

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 64.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			443599	BX2W	ELLE	11/15/23 08:17
Total/NA	Analysis	Draft-4 1633		1	450625	ZJA3	ELLE	12/06/23 18:55
Total/NA	Prep	1633 Shake	DL		443599	BX2W	ELLE	11/15/23 08:17
Total/NA	Analysis	Draft-4 1633	DL	10	454672	KQ3F	ELLE	12/15/23 18:58

Client Sample ID: SS-66-2-12-110123

Lab Sample ID: 410-149962-2

Date Collected: 11/01/23 13:55

Matrix: Solid

Date Received: 11/03/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	440073	UVJN	ELLE	11/06/23 13:36

Client Sample ID: SS-66-2-12-110123

Lab Sample ID: 410-149962-2

Date Collected: 11/01/23 13:55

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			443599	BX2W	ELLE	11/15/23 08:17
Total/NA	Analysis	Draft-4 1633		1	454672	KQ3F	ELLE	12/15/23 19:11

Client Sample ID: SS-67-0-2-110123

Lab Sample ID: 410-149962-3

Date Collected: 11/01/23 15:00

Matrix: Solid

Date Received: 11/03/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	440073	UVJN	ELLE	11/06/23 13:36

Client Sample ID: SS-67-0-2-110123

Lab Sample ID: 410-149962-3

Date Collected: 11/01/23 15:00

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 63.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			443599	BX2W	ELLE	11/15/23 08:17
Total/NA	Analysis	Draft-4 1633		1	454672	KQ3F	ELLE	12/15/23 19:37

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Client Sample ID: SS-67-2-12-110123

Lab Sample ID: 410-149962-4

Date Collected: 11/01/23 15:05

Matrix: Solid

Date Received: 11/03/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	440073	UVJN	ELLE	11/06/23 13:36

Client Sample ID: SS-67-2-12-110123

Lab Sample ID: 410-149962-4

Date Collected: 11/01/23 15:05

Matrix: Solid

Date Received: 11/03/23 09:45

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			443599	BX2W	ELLE	11/15/23 08:17
Total/NA	Analysis	Draft-4 1633		1	454672	KQ3F	ELLE	12/15/23 20:03

Client Sample ID: EB-SS-110123

Lab Sample ID: 410-149962-5

Date Collected: 11/01/23 17:00

Matrix: Water

Date Received: 11/03/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			443040	RC3V	ELLE	11/14/23 06:40
Total/NA	Analysis	Draft-4 1633		1	449790	JVK6	ELLE	12/04/23 17:44

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633	Water	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633	Water	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633	Water	NEtFOSAA
Draft-4 1633	1633	Water	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633	Water	NMeFOSA
Draft-4 1633	1633	Water	Perfluorodecanesulfonic acid
Draft-4 1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633	Water	Perfluoroheptanoic acid
Draft-4 1633	1633	Water	Perfluorononanesulfonic acid
Draft-4 1633	1633	Water	Perfluorooctanesulfonamide
Draft-4 1633	1633	Water	PES
Draft-4 1633	1633 Shake	Solid	11Cl-PF3OUdS
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633 Shake	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633 Shake	Solid	6:2 Fluorotelomer sulfonic acid
Draft-4 1633	1633 Shake	Solid	9Cl-PF3ONS
Draft-4 1633	1633 Shake	Solid	DONA
Draft-4 1633	1633 Shake	Solid	HFPODA
Draft-4 1633	1633 Shake	Solid	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633 Shake	Solid	NMeFOSA
Draft-4 1633	1633 Shake	Solid	Nonafluoro-3,6-dioxahexanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorononanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorooctanesulfonamide
Draft-4 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633 Shake	Solid	PES
Moisture		Solid	Percent Moisture

Method Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Method	Method Description	Protocol	Laboratory
Draft-4 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-149962-1	SS-66-0-2-110123	Solid	11/01/23 13:50	11/03/23 09:45
410-149962-2	SS-66-2-12-110123	Solid	11/01/23 13:55	11/03/23 09:45
410-149962-3	SS-67-0-2-110123	Solid	11/01/23 15:00	11/03/23 09:45
410-149962-4	SS-67-2-12-110123	Solid	11/01/23 15:05	11/03/23 09:45
410-149962-5	EB-SS-110123	Water	11/01/23 17:00	11/03/23 09:45

JSTODY / Analytical Request Document

Section A Laboratory Information

Lab Name: Eurofins

Lab Name: Eurofins

Attention: Natalie Luciano

Address:

Phone: 717-556-7258

Email: Natalie.Luciano@et.eurofinsus.com

Report To: Natalie Luciano

Copy To: Ellen.Skiff@parsons.com; Laura.Drachenberg@parsons.com
Maryanne.Kosciewicz@parsons.com

Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD



410-149962 Chain of Custody

Section B Client Information

Company: Parsons

Attention: Cynthia Oppenheimer

Address: 100 Pringle Ave, Ste 525,
Walnut Creek, CA, 94596

Phone: 925-324-4895

Email: Cynthia.Oppenhimer@parsons.com

Purchase Order No:

TAT - 10 Day

Section D Additional Information

COC #: TC3-116123-04

Project Name:

Taconic - Data Gap

Project Site:

Petersburg, NY

Project Number:

452026.209

Preservative codes (for water only):

0 1 0 2 3 1 0 0 3

Bottle Configuration for Soils

1-Terracore for VOCs,
1-4 oz for PFAS,
1-8 oz for other analyses

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MSD	Composite (Y/N)	PFAS Modified 1033	TAL Metals	Comments
1	SS-66	0	2	SS-66-0-2-110123	11/1/23	850	SS	N	2			X		
2	SS-66	2	12	SS-66-2-12-110123	11/1/23	1355	SS	N	2			X		
3	SS-67	0	2	SS-67-0-2-110123	11/1/23	1500	SS	N	2			X		
4	SS-67	2	12	SS-67-2-12-110123	11/1/23	1505	SS	N	2			X		
5	Field QC	-	-	EB-SS-110123	11/1/23	1700	WQ	EB	2			X		
6														
7														
8														
9														
10														

Special Instructions:

Albany
#224

Samplers Name:

ARC

Company:

PARSONS

Date/Time: 11-2-23 11:00

Relinquished By:

ARC

Company:

PARSONS

Date/Time: 11-2-23 11:00

Cooler Temp.:

Rec'd on Ice: Yes ☐ No ☐

Custody Seals Intact: Yes ☐ No ☐

Samples Intact: Yes ☐ No ☐

Shipment Method:

Shipment Tracking No:

Date/Time:

Accepted By:

TIM KROLL

Company:

EETN ALBANY

Date/Time: 11-2-23 11:00

Cooler Temp.:

Rec'd on Ice: Yes ☒ No ☐

Custody Seals Intact: Yes ☐ No ☐

Samples Intact: Yes ☐ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Relinquished By: Tim Kroll 11-2-23 17:00

Rec. By: J. Kroll 11/3/23 9:45

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-149962-1

Login Number: 149962

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Leakway, Christian

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/11/2023 10:59:30 AM

JOB DESCRIPTION

Taconic - Data Gap

JOB NUMBER

410-148678-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/11/2023 10:59:30 AM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

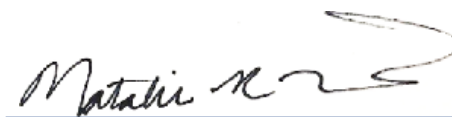


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Job ID: 410-148678-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-148678-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/26/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Receipt Exceptions

All backup containers for water samples received for 1633 PFAS analysis were frozen after receipt.

PFAS

Method 1633: The recovery for labeled isotope: M2-6:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard, biased high. Since the recovery for the labeled isotope is within QC limits in the following sample(s): 410-148678-4, the data is reported.

Method 1633: The recovery for labeled isotope: M2-6:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard, biased high. Since the recovery for the labeled isotope is within QC limits in the following sample(s): 410-148678-12, the data is reported.

Method 1633: The recovery for a target analyte(s) Perfluorononanoic acid in the laboratory control spike samples associated with the following samples: 410-148678-1, 410-148678-2, 410-148678-3, 410-148678-4, 410-148678-5, 410-148678-6, 410-148678-7, 410-148678-8, 410-148678-9, 410-148678-10, 410-148678-11, 410-148678-12, 410-148678-13, 410-148678-14, 410-148678-14[DU] and 410-148678-15 is outside the QC acceptance limits. The following action was taken: The client was contacted and the data is reported.

Method 1633: The recovery for target analyte 3-Perfluoropropyl propanoic acid and Perfluoro-4-methoxybutanoic acid is outside of QC acceptance limits in the laboratory control spike samples associated with samples: SS-79-0-2-102423 (410-148678-1), SS-79-2-12-102423 (410-148678-2), SS-80-0-2-102423 (410-148678-3), SS-80-2-12-102423 (410-148678-4), SS-81-0-2-102423 (410-148678-5), SS-81-2-12-102423 (410-148678-6), SS-82-0-2-102423 (410-148678-7), SS-82-2-12-102423 (410-148678-8), SS-83-0-2-102423 (410-148678-9), SS-83-2-12-102423 (410-148678-10), SS-84-0-2-102423 (410-148678-11), SS-84-2-12-102423 (410-148678-12), SS-73-0-2-102423 (410-148678-13), SS-73-2-12-102423 (410-148678-14), SS-74-0-2-102423 (410-148678-15) and (410-148678-A-14-B DU). Since the result is high and target analyte 3-Perfluoropropyl propanoic acid and Perfluoro-4-methoxybutanoic acid is not detected in the samples, the data is reported.

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 above or in the Definitions/ Glossary page.

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-79-0-2-102423

Lab Sample ID: 410-148678-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.11	J cn	0.79	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.69	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.34	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.11	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.077	J I cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.76	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.63	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.9	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.16	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.21	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.62	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-79-2-12-102423

Lab Sample ID: 410-148678-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.15	J cn	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.88	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.40	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.13	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.18	J cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.83	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.79	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	2.4	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.14	J I cn	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.15	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.24	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.73	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-80-0-2-102423

Lab Sample ID: 410-148678-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.12	J cn	0.80	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.61	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.30	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.078	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.073	J I cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.74	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.52	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	2.8	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.14	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.21	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.56	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-80-2-12-102423

Lab Sample ID: 410-148678-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.15	J cn	0.79	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.43	cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.23	cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.14	J cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.16	J I cn	0.20	0.058	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.78	*+ cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-80-2-12-102423 (Continued)

Lab Sample ID: 410-148678-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.45	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	3.6	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.20	J cn	0.40	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.12	J cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.17	J cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.38	cn	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-81-0-2-102423

Lab Sample ID: 410-148678-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.96	cn	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	2.1	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.88	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.53	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.42	cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	2.0	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.72	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	4.6	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	1.0	cn	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.32	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.60	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	2.0	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-81-2-12-102423

Lab Sample ID: 410-148678-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.70	J cn	0.79	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.92	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.42	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.26	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.38	cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	1.9	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.44	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	4.1	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	1.1	I cn	0.40	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.19	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.31	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.76	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-82-0-2-102423

Lab Sample ID: 410-148678-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.28	J cn	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	1.4	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.60	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.15	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.17	J cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	1.0	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.51	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.2	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.18	J cn	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.20	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-82-0-2-102423 (Continued)

Lab Sample ID: 410-148678-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	0.35	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	1.2	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-82-2-12-102423

Lab Sample ID: 410-148678-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.19	J cn	0.80	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.68	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.31	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.14	J I cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.13	J cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.80	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.31	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.3	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.18	J cn	0.40	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.15	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.18	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.55	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-83-0-2-102423

Lab Sample ID: 410-148678-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.4	cn	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	4.5	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	2.9	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.51	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.72	cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	1.7	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	1.3	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	4.8	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	1.0	cn	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	1.4	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	1.9	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	4.8	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-83-2-12-102423

Lab Sample ID: 410-148678-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.4	cn	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	1.8	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	1.1	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.99	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	1.3	cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	3.5	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	1.1	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	11	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	1.4	cn	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.62	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.78	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	1.6	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-84-0-2-102423

Lab Sample ID: 410-148678-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.15	J cn	0.80	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.34	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.16	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.16	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.19	J cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.41	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.61	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.1	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.14	J cn	0.40	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.058	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.089	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.31	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-84-2-12-102423

Lab Sample ID: 410-148678-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.16	J cn	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.23	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.086	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.17	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.26	cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.52	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.43	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	2.6	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.18	J cn	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.070	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.21	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-73-0-2-102423

Lab Sample ID: 410-148678-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.20	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.11	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.053	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.29	I *+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.67	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.44	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.065	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.23	cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-73-2-12-102423

Lab Sample ID: 410-148678-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.070	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.065	J I cn	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.21	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.29	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.0	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-74-0-2-102423

Lab Sample ID: 410-148678-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.098	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-74-0-2-102423 (Continued)

Lab Sample ID: 410-148678-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorododecanoic acid	0.060	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.15	J F1 *+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.30	cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.17	J F1 cn	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.12	J cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: EB-SS-102423

Lab Sample ID: 410-148678-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-79-0-2-102423

Lab Sample ID: 410-148678-1

Date Collected: 10/24/23 10:45

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 73.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
9CI-PF3ONS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
DONA	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
HFPODA	0.79	U cn	0.79	0.051	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
NETFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorobutanoic acid	0.11	J cn	0.79	0.099	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorodecanoic acid	0.69	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorododecanoic acid	0.34	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoroheptanoic acid	0.11	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorohexanoic acid	0.077	J I cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorononanoic acid	0.76	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorooctanesulfonic acid	0.63	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorooctanoic acid	1.9	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoropentanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorotetradecanoic acid	0.16	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluorotridecanoic acid	0.21	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Perfluoroundecanoic acid	0.62	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
PES	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 04:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	68.3	cn	20 - 150				11/03/23 07:56	11/18/23 04:34	1
13C2-PFDoDA	78.8	cn	20 - 150				11/03/23 07:56	11/18/23 04:34	1
13C3 HFPO-DA	81.8	cn	20 - 150				11/03/23 07:56	11/18/23 04:34	1
13C3 PFBS	95.3	cn	20 - 150				11/03/23 07:56	11/18/23 04:34	1
13C3 PFHxS	99.1	cn	20 - 150				11/03/23 07:56	11/18/23 04:34	1
13C4 PFBA	101	cn	20 - 150				11/03/23 07:56	11/18/23 04:34	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-79-0-2-102423

Lab Sample ID: 410-148678-1

Date Collected: 10/24/23 10:45

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 73.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	83.8	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C5 PFHxA	78.1	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C5 PFPeA	77.7	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C6 PFDA	85.2	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C7 PFUnA	69.6	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C8 FOSA	104	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C8 PFOA	82.0	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C8 PFOS	91.6	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
13C9 PFNA	85.6	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
d3-NMeFOSAA	83.9	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
d3-NMePFOSA	63.4	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
d5-NEtFOSAA	84.1	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
d5-NEtPFOSA	55.7	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
d7-N-MeFOSE-M	71.8	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
d9-N-EtFOSE-M	71.3	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1
M2-8:2 FTS	123	cn	20 - 150	11/03/23 07:56	11/18/23 04:34	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.9	U cn	7.9	2.0	ng/g	☼	11/03/23 07:56	11/22/23 15:24	10
6:2 Fluorotelomer sulfonic acid	9.9	U cn	9.9	3.5	ng/g	☼	11/03/23 07:56	11/22/23 15:24	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	97.5	cn	20 - 150				11/03/23 07:56	11/22/23 15:24	10
M2-6:2 FTS	120	cn	20 - 150				11/03/23 07:56	11/22/23 15:24	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	26.1		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-79-2-12-102423

Lab Sample ID: 410-148678-2

Date Collected: 10/24/23 10:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 69.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
8:2 Fluorotelomer sulfonic acid	1.0	U cn	1.0	0.35	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
9CI-PF3ONS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
DONA	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 04:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-79-2-12-102423

Lab Sample ID: 410-148678-2

Date Collected: 10/24/23 10:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 69.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorobutanoic acid	0.15	J cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorodecanoic acid	0.88	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorododecanoic acid	0.40	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoroheptanoic acid	0.13	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorohexanoic acid	0.18	J cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorononanoic acid	0.83	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorooctanesulfonic acid	0.79	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorooctanoic acid	2.4	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoropentanoic acid	0.14	J I cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorotetradecanoic acid	0.15	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluorotridecanoic acid	0.24	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
Perfluoroundecanoic acid	0.73	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1
PES	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 04:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	72.6	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C2-PFDoDA	83.0	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C3 HFPO-DA	89.3	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C3 PFBS	98.8	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C3 PFHxS	97.5	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C4 PFBA	100	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C4 PFHpA	96.0	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C5 PFHxA	86.9	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C5 PFPeA	80.8	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C6 PFDA	84.9	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C7 PFUnA	71.3	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C8 FOSA	119	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C8 PFOA	82.2	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C8 PFOS	98.5	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
13C9 PFNA	90.5	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
d3-NMeFOSAA	98.3	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
d3-NMePFOSA	68.6	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
d5-NEtFOSAA	102	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
d5-NEtPFOSA	64.3	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
d7-N-MeFOSE-M	82.9	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-79-2-12-102423

Lab Sample ID: 410-148678-2

Date Collected: 10/24/23 10:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 69.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	81.6	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1
M2-8:2 FTS	139	cn	20 - 150	11/03/23 07:56	11/18/23 04:47	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	☼	11/03/23 07:56	11/22/23 15:37	10
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/22/23 15:37	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	108	cn	20 - 150				11/03/23 07:56	11/22/23 15:37	10
M2-6:2 FTS	92.3	cn	20 - 150				11/03/23 07:56	11/22/23 15:37	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	30.4		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-80-0-2-102423

Lab Sample ID: 410-148678-3

Date Collected: 10/24/23 10:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 74.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
9Cl-PF3ONS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
DONA	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorobutanoic acid	0.12	J cn	0.80	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorodecanoic acid	0.61	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorododecanoic acid	0.30	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-80-0-2-102423

Lab Sample ID: 410-148678-3

Date Collected: 10/24/23 10:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 74.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluoroheptanoic acid	0.078	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorohexanoic acid	0.073	J I cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorononanoic acid	0.74	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorooctanesulfonic acid	0.52	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorooctanoic acid	2.8	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluoropentanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorotetradecanoic acid	0.14	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluorotridecanoic acid	0.21	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
Perfluoroundecanoic acid	0.56	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1
PES	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	74.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C2-PFDoDA	82.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C3 HFPO-DA	89.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C3 PFBS	109	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C3 PFHxS	98.8	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C4 PFBA	102	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C4 PFHpA	97.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C5 PFHxA	79.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C5 PFPeA	87.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C6 PFDA	92.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C7 PFUnA	73.0	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C8 FOSA	119	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C8 PFOA	84.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C8 PFOS	105	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
13C9 PFNA	87.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
d3-NMeFOSAA	98.8	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
d3-NMePFOSA	66.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
d5-NEtFOSAA	102	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
d5-NEtPFOSA	60.3	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
d7-N-MeFOSE-M	49.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
d9-N-EtFOSE-M	35.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
M2-4:2 FTS	140	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1
M2-8:2 FTS	132	cn	20 - 150	11/03/23 07:56	11/18/23 05:00	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	9.9	U cn	9.9	3.5	ng/g	☼	11/03/23 07:56	11/22/23 15:50	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	96.1	cn	20 - 150				11/03/23 07:56	11/22/23 15:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	25.2		1.0	1.0	%			10/30/23 09:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-80-2-12-102423

Lab Sample ID: 410-148678-4

Date Collected: 10/24/23 11:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 73.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.49	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.49	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
3-Perfluoroheptylpropanoic acid	4.9	U cn	4.9	0.99	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
3-Perfluoropentylpropanoic acid	4.9	U cn	4.9	0.99	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
6:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
9CI-PF3ONS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
DONA	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
HFPODA	0.79	U cn	0.79	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
NEtFOSAA	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
NMeFOSA	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
NMeFOSAA	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorobutanoic acid	0.15	J cn	0.79	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorodecanoic acid	0.43	cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorododecanoic acid	0.23	cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoroheptanoic acid	0.14	J cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorohexanoic acid	0.16	J I cn	0.20	0.058	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorononanoic acid	0.78	*+ cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorooctanesulfonic acid	0.45	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorooctanoic acid	3.6	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoropentanoic acid	0.20	J cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorotetradecanoic acid	0.12	J cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluorotridecanoic acid	0.17	J cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Perfluoroundecanoic acid	0.38	cn	0.20	0.049	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
PES	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	73.6	cn	20 - 150				11/03/23 07:56	11/18/23 05:13	1
13C2-PFDoDA	84.1	cn	20 - 150				11/03/23 07:56	11/18/23 05:13	1
13C3 HFPO-DA	96.4	cn	20 - 150				11/03/23 07:56	11/18/23 05:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-80-2-12-102423

Lab Sample ID: 410-148678-4

Date Collected: 10/24/23 11:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 73.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	92.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C3 PFHxS	86.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C4 PFBA	57.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C4 PFHpA	93.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C5 PFHxA	82.3	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C5 PFPeA	81.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C6 PFDA	85.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C7 PFUnA	78.3	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C8 FOSA	113	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C8 PFOA	85.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C8 PFOS	94.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
13C9 PFNA	87.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
d3-NMeFOSAA	81.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
d3-NMePFOSA	61.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
d5-NEtFOSAA	78.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
d5-NEtPFOSA	51.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
d7-N-MeFOSE-M	70.0	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
d9-N-EtFOSE-M	65.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
M2-4:2 FTS	110	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
M2-6:2 FTS	144	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1
M2-8:2 FTS	115	cn	20 - 150	11/03/23 07:56	11/18/23 05:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	26.3		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-81-0-2-102423

Lab Sample ID: 410-148678-5

Date Collected: 10/24/23 11:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 72.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
9Cl-PF3ONS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
DONA	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-81-0-2-102423

Lab Sample ID: 410-148678-5

Date Collected: 10/24/23 11:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 72.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid	0.40	U ** cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorobutanoic acid	0.96	cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorodecanoic acid	2.1	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorododecanoic acid	0.88	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluoroheptanoic acid	0.53	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorohexanoic acid	0.42	cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorononanoic acid	2.0	** cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorooctanesulfonic acid	0.72	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorooctanoic acid	4.6	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluoropentanoic acid	1.0	cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorotetradecanoic acid	0.32	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluorotridecanoic acid	0.60	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
Perfluoroundecanoic acid	2.0	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1
PES	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	82.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C2-PFDoDA	89.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C3 HFPO-DA	88.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C3 PFBS	106	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C3 PFHxS	95.0	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C4 PFBA	105	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C4 PFHpA	85.8	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C5 PFHxA	80.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C5 PFPeA	80.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C6 PFDA	90.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C7 PFUnA	83.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C8 FOSA	114	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C8 PFOA	88.6	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C8 PFOS	105	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
13C9 PFNA	88.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
d3-NMeFOSAA	97.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
d3-NMePFOSA	69.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
d5-NEtFOSAA	96.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
d5-NEtPFOSA	62.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
d7-N-MeFOSE-M	81.3	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1
d9-N-EtFOSE-M	78.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:26	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	✱	11/03/23 07:56	11/22/23 16:16	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-81-0-2-102423

Lab Sample ID: 410-148678-5

Date Collected: 10/24/23 11:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 72.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	✱	11/03/23 07:56	11/22/23 16:16	10
8:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	✱	11/03/23 07:56	11/22/23 16:16	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	132	cn	20 - 150				11/03/23 07:56	11/22/23 16:16	10
M2-6:2 FTS	82.3	cn	20 - 150				11/03/23 07:56	11/22/23 16:16	10
M2-8:2 FTS	120	cn	20 - 150				11/03/23 07:56	11/22/23 16:16	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	27.9		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-81-2-12-102423

Lab Sample ID: 410-148678-6

Date Collected: 10/24/23 11:10

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
9Cl-PF3ONS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
DONA	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
HFPODA	0.79	U cn	0.79	0.051	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorobutanoic acid	0.70	J cn	0.79	0.099	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorodecanoic acid	0.92	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorododecanoic acid	0.42	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluoroheptanoic acid	0.26	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorohexanoic acid	0.38	cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1
Perfluorononanoic acid	1.9	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 05:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-81-2-12-102423

Lab Sample ID: 410-148678-6

Date Collected: 10/24/23 11:10

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluorooctanesulfonic acid	0.44	cn	0.20	0.051	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluorooctanoic acid	4.1	cn	0.20	0.051	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluoropentanoic acid	1.1	I cn	0.40	0.099	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluorotetradecanoic acid	0.19	J cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluorotridecanoic acid	0.31	cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
Perfluoroundecanoic acid	0.76	cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1
PES	0.40	U cn	0.40	0.099	ng/g	☼	11/03/23 07:56	11/18/23 05:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	69.3	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C2-PFDoDA	74.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C3 HFPO-DA	82.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C3 PFBS	98.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C3 PFHxS	96.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C4 PFBA	101	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C4 PFHpA	96.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C5 PFHxA	75.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C5 PFPeA	76.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C6 PFDA	86.0	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C7 PFUnA	78.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C8 FOSA	98.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C8 PFOA	85.4	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C8 PFOS	95.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
13C9 PFNA	73.9	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
d3-NMeFOSAA	77.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
d3-NMePFOSA	63.1	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
d5-NEtFOSAA	81.5	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
d5-NEtPFOSA	52.7	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
d7-N-MeFOSE-M	69.2	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
d9-N-EtFOSE-M	64.0	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1
M2-8:2 FTS	145	cn	20 - 150	11/03/23 07:56	11/18/23 05:39	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.9	U cn	7.9	2.0	ng/g	☼	11/03/23 07:56	11/22/23 16:29	10
6:2 Fluorotelomer sulfonic acid	9.9	U cn	9.9	3.5	ng/g	☼	11/03/23 07:56	11/22/23 16:29	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	109	cn	20 - 150				11/03/23 07:56	11/22/23 16:29	10
M2-6:2 FTS	110	cn	20 - 150				11/03/23 07:56	11/22/23 16:29	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	21.3		1.0	1.0	%			10/30/23 09:55	1

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-82-0-2-102423

Lab Sample ID: 410-148678-7

Date Collected: 10/24/23 12:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
9CI-PF3ONS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
DONA	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
NETFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorobutanoic acid	0.28	J cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorodecanoic acid	1.4	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorododecanoic acid	0.60	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoroheptanoic acid	0.15	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorohexanoic acid	0.17	J cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorononanoic acid	1.0	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorooctanesulfonic acid	0.51	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorooctanoic acid	1.2	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoropentanoic acid	0.18	J cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorotetradecanoic acid	0.20	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluorotridecanoic acid	0.35	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
Perfluoroundecanoic acid	1.2	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1
PES	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	77.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C2-PFDoDA	86.8	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C3 HFPO-DA	78.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C3 PFBS	108	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C3 PFHxS	106	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C4 PFBA	97.0	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C4 PFHpA	81.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-82-0-2-102423

Lab Sample ID: 410-148678-7

Date Collected: 10/24/23 12:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	65.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C5 PFPeA	72.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C6 PFDA	88.4	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C7 PFUnA	76.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C8 FOSA	118	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C8 PFOA	75.2	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C8 PFOS	99.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
13C9 PFNA	93.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
d3-NMeFOSAA	95.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
d3-NMePFOSA	72.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
d5-NEtFOSAA	100	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
d5-NEtPFOSA	62.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
d7-N-MeFOSE-M	79.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1
d9-N-EtFOSE-M	78.2	cn	20 - 150	11/03/23 07:56	11/18/23 06:18	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	☼	11/03/23 07:56	11/23/23 09:43	10
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/23/23 09:43	10
8:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/23/23 09:43	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	135	cn	20 - 150				11/03/23 07:56	11/23/23 09:43	10
M2-6:2 FTS	109	cn	20 - 150				11/03/23 07:56	11/23/23 09:43	10
M2-8:2 FTS	129	cn	20 - 150				11/03/23 07:56	11/23/23 09:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	21.2		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-82-2-12-102423

Lab Sample ID: 410-148678-8

Date Collected: 10/24/23 12:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
9CI-PF3ONS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1
DONA	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 06:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-82-2-12-102423

Lab Sample ID: 410-148678-8

Date Collected: 10/24/23 12:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorobutanoic acid	0.19	J cn	0.80	0.099	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorodecanoic acid	0.68	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorododecanoic acid	0.31	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoroheptanoic acid	0.14	J I cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorohexanoic acid	0.13	J cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorononanoic acid	0.80	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorooctanesulfonic acid	0.31	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorooctanoic acid	1.3	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoropentanoic acid	0.18	J cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorotetradecanoic acid	0.15	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluorotridecanoic acid	0.18	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
Perfluoroundecanoic acid	0.55	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1
PES	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 06:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	68.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C2-PFDoDA	77.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C3 HFPO-DA	84.4	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C3 PFBS	97.8	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C3 PFHxS	91.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C4 PFBA	97.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C4 PFHpA	90.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C5 PFHxA	74.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C5 PFPeA	84.0	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C6 PFDA	83.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C7 PFUnA	73.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C8 FOSA	111	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C8 PFOA	84.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C8 PFOS	98.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
13C9 PFNA	94.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
d3-NMeFOSAA	89.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
d3-NMePFOSA	62.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
d5-NEtFOSAA	84.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-82-2-12-102423

Lab Sample ID: 410-148678-8

Date Collected: 10/24/23 12:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	52.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
d7-N-MeFOSE-M	72.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
d9-N-EtFOSE-M	68.2	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
M2-4:2 FTS	145	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1
M2-8:2 FTS	118	cn	20 - 150	11/03/23 07:56	11/18/23 06:31	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	9.9	U cn	9.9	3.5	ng/g	☼	11/03/23 07:56	11/23/23 09:56	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	142	cn	20 - 150				11/03/23 07:56	11/23/23 09:56	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-83-0-2-102423

Lab Sample ID: 410-148678-9

Date Collected: 10/24/23 12:10

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 62.4

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	2.0	U cn	2.0	0.50	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	2.0	U cn	2.0	0.50	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
9Cl-PF3ONS	0.80	U cn	0.80	0.20	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
DONA	0.80	U cn	0.80	0.20	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.10	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluorobutanoic acid	1.4	cn	0.80	0.10	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluorodecanoic acid	4.5	cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluorododecanoic acid	2.9	cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1
Perfluoroheptanoic acid	0.51	cn	0.20	0.050	ng/g	☆	11/03/23 07:56	11/18/23 06:44	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-83-0-2-102423

Lab Sample ID: 410-148678-9

Date Collected: 10/24/23 12:10

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 62.4

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorohexanoic acid	0.72	cn	0.20	0.059	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorononanoic acid	1.7	*+ cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorooctanesulfonic acid	1.3	cn	0.20	0.051	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorooctanoic acid	4.8	cn	0.20	0.051	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluoropentanoic acid	1.0	cn	0.40	0.10	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorotetradecanoic acid	1.4	cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluorotridecanoic acid	1.9	cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
Perfluoroundecanoic acid	4.8	cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1
PES	0.40	U cn	0.40	0.10	ng/g	☼	11/03/23 07:56	11/18/23 06:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	67.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C2-PFDoDA	86.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C3 HFPO-DA	87.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C3 PFBS	101	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C3 PFHxS	97.8	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C4 PFBA	105	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C4 PFHpA	97.2	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C5 PFHxA	80.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C5 PFPeA	80.4	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C6 PFDA	93.8	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C7 PFUnA	83.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C8 FOSA	107	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C8 PFOA	91.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C8 PFOS	103	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
13C9 PFNA	88.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
d3-NMeFOSAA	83.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
d3-NMePFOSA	62.2	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
d5-NEtFOSAA	86.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
d5-NEtPFOSA	55.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
d7-N-MeFOSE-M	71.8	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1
d9-N-EtFOSE-M	66.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:44	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	☼	11/03/23 07:56	11/23/23 10:09	10
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/23/23 10:09	10
8:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/23/23 10:09	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	101	cn	20 - 150				11/03/23 07:56	11/23/23 10:09	10
M2-6:2 FTS	138	cn	20 - 150				11/03/23 07:56	11/23/23 10:09	10
M2-8:2 FTS	97.2	cn	20 - 150				11/03/23 07:56	11/23/23 10:09	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	37.6		1.0	1.0	%			10/30/23 09:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-83-2-12-102423

Lab Sample ID: 410-148678-10

Date Collected: 10/24/23 12:15

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 74.0

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
9CI-PF3ONS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
DONA	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
NETFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorobutanoic acid	1.4	cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorodecanoic acid	1.8	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorododecanoic acid	1.1	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoroheptanoic acid	0.99	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorohexanoic acid	1.3	cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorononanoic acid	3.5	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorooctanesulfonic acid	1.1	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorooctanoic acid	11	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoropentanoic acid	1.4	cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorotetradecanoic acid	0.62	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluorotridecanoic acid	0.78	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
Perfluoroundecanoic acid	1.6	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1
PES	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 06:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	79.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C2-PFDoDA	85.6	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C3 HFPO-DA	84.3	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C3 PFBS	103	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C3 PFHxS	106	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C4 PFBA	62.0	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C4 PFHpA	88.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-83-2-12-102423

Lab Sample ID: 410-148678-10

Date Collected: 10/24/23 12:15

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 74.0

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	74.7	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C5 PFPeA	82.5	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C6 PFDA	93.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C7 PFUnA	81.0	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C8 FOSA	130	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C8 PFOA	87.4	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C8 PFOS	106	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
13C9 PFNA	87.4	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
d3-NMeFOSAA	98.0	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
d3-NMePFOSA	69.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
d5-NEtFOSAA	96.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
d5-NEtPFOSA	62.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
d7-N-MeFOSE-M	87.1	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1
d9-N-EtFOSE-M	79.9	cn	20 - 150	11/03/23 07:56	11/18/23 06:57	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	☼	11/03/23 07:56	11/23/23 10:22	10
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/23/23 10:22	10
8:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/23/23 10:22	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	108	cn	20 - 150				11/03/23 07:56	11/23/23 10:22	10
M2-6:2 FTS	110	cn	20 - 150				11/03/23 07:56	11/23/23 10:22	10
M2-8:2 FTS	89.3	cn	20 - 150				11/03/23 07:56	11/23/23 10:22	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	26.0		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-84-0-2-102423

Lab Sample ID: 410-148678-11

Date Collected: 10/24/23 13:25

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 71.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
9CI-PF3ONS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
DONA	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 07:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-84-0-2-102423

Lab Sample ID: 410-148678-11

Date Collected: 10/24/23 13:25

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 71.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorobutanoic acid	0.15	J cn	0.80	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorodecanoic acid	0.34	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorododecanoic acid	0.16	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoroheptanoic acid	0.16	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorohexanoic acid	0.19	J cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorononanoic acid	0.41	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorooctanesulfonic acid	0.61	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorooctanoic acid	1.1	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoropentanoic acid	0.14	J cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorotetradecanoic acid	0.058	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluorotridecanoic acid	0.089	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
Perfluoroundecanoic acid	0.31	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1
PES	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	73.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C2-PFDoDA	79.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C3 HFPO-DA	93.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C3 PFBS	103	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C3 PFHxS	100	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C4 PFBA	68.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C4 PFHpA	94.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C5 PFHxA	81.6	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C5 PFPeA	82.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C6 PFDA	82.9	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C7 PFUnA	76.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C8 FOSA	114	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C8 PFOA	87.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C8 PFOS	99.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
13C9 PFNA	95.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
d3-NMeFOSAA	88.8	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
d3-NMePFOSA	64.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
d5-NEtFOSAA	93.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
d5-NEtPFOSA	57.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
d7-N-MeFOSE-M	73.6	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-84-0-2-102423

Lab Sample ID: 410-148678-11

Date Collected: 10/24/23 13:25

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 71.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	69.8	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1
M2-8:2 FTS	114	cn	20 - 150	11/03/23 07:56	11/18/23 07:11	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	☼	11/03/23 07:56	11/22/23 16:42	10
6:2 Fluorotelomer sulfonic acid	9.9	U cn	9.9	3.5	ng/g	☼	11/03/23 07:56	11/22/23 16:42	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	101	cn	20 - 150				11/03/23 07:56	11/22/23 16:42	10
M2-6:2 FTS	124	cn	20 - 150				11/03/23 07:56	11/22/23 16:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	28.1		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-84-2-12-102423

Lab Sample ID: 410-148678-12

Date Collected: 10/24/23 13:30

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
6:2 Fluorotelomer sulfonic acid	1.0	U cn	1.0	0.35	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
8:2 Fluorotelomer sulfonic acid	1.0	U cn	1.0	0.35	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
9Cl-PF3ONS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
DONA	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorobutanoic acid	0.16	J cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorodecanoic acid	0.23	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-84-2-12-102423

Lab Sample ID: 410-148678-12

Date Collected: 10/24/23 13:30

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	0.086	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoroheptanoic acid	0.17	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorohexanoic acid	0.26	cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorononanoic acid	0.52	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorooctanesulfonic acid	0.43	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorooctanoic acid	2.6	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoropentanoic acid	0.18	J cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorotetradecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluorotridecanoic acid	0.070	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
Perfluoroundecanoic acid	0.21	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1
PES	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	73.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C2-PFDoDA	90.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C3 HFPO-DA	90.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C3 PFBS	98.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C3 PFHxS	98.5	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C4 PFBA	69.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C4 PFHpA	101	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C5 PFHxA	83.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C5 PFPeA	78.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C6 PFDA	96.1	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C7 PFUnA	86.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C8 FOSA	119	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C8 PFOA	90.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C8 PFOS	98.6	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
13C9 PFNA	87.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
d3-NMeFOSAA	91.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
d3-NMePFOSA	61.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
d5-NEtFOSAA	88.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
d5-NEtPFOSA	52.1	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
d7-N-MeFOSE-M	66.5	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
d9-N-EtFOSE-M	56.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
M2-4:2 FTS	136	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
M2-6:2 FTS	142	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1
M2-8:2 FTS	119	cn	20 - 150	11/03/23 07:56	11/18/23 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	21.9		1.0	1.0	%			10/30/23 09:55	1

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-73-0-2-102423

Lab Sample ID: 410-148678-13

Date Collected: 10/24/23 14:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 76.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	0.99	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
3-Perfluoropropyl propanoic acid	0.99	U *+ cn	0.99	0.25	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
8:2 Fluorotelomer sulfonic acid	0.99	U cn	0.99	0.35	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
9CI-PF3ONS	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
DONA	0.79	U cn	0.79	0.20	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
HFPODA	0.79	U cn	0.79	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorobutanoic acid	0.79	U cn	0.79	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorodecanoic acid	0.20	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorododecanoic acid	0.11	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoroheptanoic acid	0.053	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorohexanoic acid	0.20	U cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorononanoic acid	0.29	I *+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorooctanesulfonic acid	0.67	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorooctanoic acid	0.44	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoropentanoic acid	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorotetradecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluorotridecanoic acid	0.065	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Perfluoroundecanoic acid	0.23	cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
PES	0.40	U cn	0.40	0.099	ng/g	✱	11/03/23 07:56	11/18/23 07:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	77.5	cn	20 - 150				11/03/23 07:56	11/18/23 07:37	1
13C2-PFDoDA	91.2	cn	20 - 150				11/03/23 07:56	11/18/23 07:37	1
13C3 HFPO-DA	93.4	cn	20 - 150				11/03/23 07:56	11/18/23 07:37	1
13C3 PFBS	101	cn	20 - 150				11/03/23 07:56	11/18/23 07:37	1
13C3 PFHxS	114	cn	20 - 150				11/03/23 07:56	11/18/23 07:37	1
13C4 PFBA	76.8	cn	20 - 150				11/03/23 07:56	11/18/23 07:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-73-0-2-102423

Lab Sample ID: 410-148678-13

Date Collected: 10/24/23 14:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 76.1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	102	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C5 PFHxA	75.5	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C5 PFPeA	89.9	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C6 PFDA	93.6	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C7 PFOA	84.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C8 FOSA	115	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C8 PFOA	94.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C8 PFOS	100	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
13C9 PFNA	93.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
d3-NMeFOSAA	85.1	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
d3-NMePFOSA	71.1	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
d5-NEtFOSAA	92.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
d5-NEtPFOSA	63.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
d7-N-MeFOSE-M	80.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
d9-N-EtFOSE-M	79.5	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1
M2-8:2 FTS	145	cn	20 - 150	11/03/23 07:56	11/18/23 07:37	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.9	U cn	7.9	2.0	ng/g	☼	11/03/23 07:56	11/23/23 10:35	10
6:2 Fluorotelomer sulfonic acid	9.9	U cn	9.9	3.5	ng/g	☼	11/03/23 07:56	11/23/23 10:35	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	88.6	cn	20 - 150				11/03/23 07:56	11/23/23 10:35	10
M2-6:2 FTS	113	cn	20 - 150				11/03/23 07:56	11/23/23 10:35	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	23.9		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-73-2-12-102423

Lab Sample ID: 410-148678-14

Date Collected: 10/24/23 14:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	1.0	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	0.25	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
8:2 Fluorotelomer sulfonic acid	1.0	U cn	1.0	0.35	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
9Cl-PF3ONS	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1
DONA	0.80	U cn	0.80	0.20	ng/g	☼	11/03/23 07:56	11/18/23 07:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-73-2-12-102423

Lab Sample ID: 410-148678-14

Date Collected: 10/24/23 14:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorobutanoic acid	0.80	U cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorodecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorododecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoroheptanoic acid	0.070	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorohexanoic acid	0.065	J I cn	0.20	0.059	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorononanoic acid	0.21	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorooctanesulfonic acid	0.29	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorooctanoic acid	1.0	cn	0.20	0.051	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoropentanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorotetradecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluorotridecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
Perfluoroundecanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1
PES	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 07:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	75.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C2-PFDoDA	87.1	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C3 HFPO-DA	99.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C3 PFBS	93.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C3 PFHxS	99.0	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C4 PFBA	83.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C4 PFHpA	98.6	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C5 PFHxA	89.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C5 PFPeA	87.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C6 PFDA	90.8	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C7 PFUnA	77.5	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C8 FOSA	114	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C8 PFOA	81.7	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C8 PFOS	97.8	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
13C9 PFNA	89.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
d3-NMeFOSAA	87.5	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
d3-NMePFOSA	62.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
d5-NEtFOSAA	88.8	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-73-2-12-102423

Lab Sample ID: 410-148678-14

Date Collected: 10/24/23 14:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	53.3	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
d7-N-MeFOSE-M	75.2	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
d9-N-EtFOSE-M	69.4	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
M2-4:2 FTS	130	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1
M2-8:2 FTS	118	cn	20 - 150	11/03/23 07:56	11/18/23 07:50	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	✱	11/03/23 07:56	11/23/23 10:48	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-6:2 FTS	124	cn	20 - 150				11/03/23 07:56	11/23/23 10:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.4		1.0	1.0	%			10/30/23 09:55	1

Client Sample ID: SS-74-0-2-102423

Lab Sample ID: 410-148678-15

Date Collected: 10/24/23 15:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 58.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
2- (N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
2- (N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	0.50	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
3-Perfluoroheptylpropanoic acid	5.0	U F1 cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
3-Perfluoropentylpropanoic acid	5.0	U F1 cn	5.0	1.0	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
3-Perfluoropropyl propanoic acid	1.0	U F1 *+ cn	1.0	0.25	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
9Cl-PF3ONS	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
DONA	0.80	U cn	0.80	0.20	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
HFPODA	0.80	U cn	0.80	0.051	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
NEtFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
NMeFOSA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
NMeFOSAA	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluoro-4-methoxybutanoic acid	0.40	U F1 *+ cn	0.40	0.10	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluorobutanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluorobutanoic acid	0.80	U cn	0.80	0.10	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluorodecanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluorodecanoic acid	0.098	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluorodecanesulfonic acid (PFDoS)	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluorododecanoic acid	0.060	J cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1
Perfluoroheptanoic acid	0.20	U cn	0.20	0.050	ng/g	✱	11/03/23 07:56	11/18/23 08:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-74-0-2-102423

Lab Sample ID: 410-148678-15

Date Collected: 10/24/23 15:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 58.2

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorohexanoic acid	0.20	U F1 cn	0.20	0.059	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorononanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorononanoic acid	0.15	J F1 *+ cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorooctanesulfonamide	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorooctanesulfonic acid	0.30	cn	0.20	0.051	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorooctanoic acid	0.17	J F1 cn	0.20	0.051	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluoropentanesulfonic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluoropentanoic acid	0.40	U cn	0.40	0.10	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorotetradecanoic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluorotridecanoic acid	0.20	U cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
Perfluoroundecanoic acid	0.12	J cn	0.20	0.050	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1
PES	0.40	U F1 cn	0.40	0.10	ng/g	☼	11/03/23 07:56	11/18/23 08:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	63.1	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C2-PFDoDA	82.0	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C3 HFPO-DA	81.6	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C3 PFBS	107	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C3 PFHxS	102	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C4 PFBA	98.6	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C4 PFHpA	89.6	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C5 PFHxA	78.6	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C5 PFPeA	80.0	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C6 PFDA	86.8	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C7 PFUnA	74.1	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C8 FOSA	112	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C8 PFOA	95.4	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C8 PFOS	96.8	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
13C9 PFNA	80.6	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
d3-NMeFOSAA	92.9	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
d3-NMePFOSA	72.8	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
d5-NEtFOSAA	93.2	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
d5-NEtPFOSA	66.1	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
d7-N-MeFOSE-M	81.1	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1
d9-N-EtFOSE-M	79.1	cn	20 - 150	11/03/23 07:56	11/18/23 08:42	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U cn	8.0	2.0	ng/g	☼	11/03/23 07:56	11/22/23 16:56	10
6:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/22/23 16:56	10
8:2 Fluorotelomer sulfonic acid	10	U cn	10	3.5	ng/g	☼	11/03/23 07:56	11/22/23 16:56	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	109	cn	20 - 150				11/03/23 07:56	11/22/23 16:56	10
M2-6:2 FTS	107	cn	20 - 150				11/03/23 07:56	11/22/23 16:56	10
M2-8:2 FTS	102	cn	20 - 150				11/03/23 07:56	11/22/23 16:56	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	41.8		1.0	1.0	%			10/30/23 09:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: EB-SS-102423

Lab Sample ID: 410-148678-16

Date Collected: 10/24/23 18:30

Matrix: Water

Date Received: 10/26/23 10:10

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	7.4	U	7.4	1.8	ng/L		11/20/23 06:48	12/01/23 20:54	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.4	U	7.4	1.6	ng/L		11/20/23 06:48	12/01/23 20:54	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	18	U	18	4.6	ng/L		11/20/23 06:48	12/01/23 20:54	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	18	U	18	4.6	ng/L		11/20/23 06:48	12/01/23 20:54	1
3-Perfluoroheptylpropanoic acid	46	U	46	9.2	ng/L		11/20/23 06:48	12/01/23 20:54	1
3-Perfluoropentylpropanoic acid	46	U	46	9.2	ng/L		11/20/23 06:48	12/01/23 20:54	1
3-Perfluoropropyl propanoic acid	9.2	U	9.2	1.4	ng/L		11/20/23 06:48	12/01/23 20:54	1
6:2 Fluorotelomer sulfonic acid	7.4	U	7.4	2.3	ng/L		11/20/23 06:48	12/01/23 20:54	1
8:2 Fluorotelomer sulfonic acid	7.4	U	7.4	2.4	ng/L		11/20/23 06:48	12/01/23 20:54	1
9CI-PF3ONS	7.4	U	7.4	0.92	ng/L		11/20/23 06:48	12/01/23 20:54	1
DONA	7.4	U	7.4	1.4	ng/L		11/20/23 06:48	12/01/23 20:54	1
HFPODA	7.4	U	7.4	1.8	ng/L		11/20/23 06:48	12/01/23 20:54	1
NEtFOSAA	1.8	U	1.8	0.65	ng/L		11/20/23 06:48	12/01/23 20:54	1
N-ethylperfluoro-1-octanesulfonamide	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
NMeFOSA	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
NMeFOSAA	3.7	U	3.7	1.1	ng/L		11/20/23 06:48	12/01/23 20:54	1
Nonafluoro-3,6-dioxaheptanoic acid	3.7	U	3.7	0.92	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoro-3-methoxypropanoic acid	3.7	U	3.7	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoro-4-methoxybutanoic acid	3.7	U	3.7	0.92	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorobutanesulfonic acid	1.8	U	1.8	0.28	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorobutanoic acid	7.4	U	7.4	1.8	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorodecanesulfonic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorodecanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorododecanesulfonic acid (PFDoS)	1.8	U	1.8	0.83	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorododecanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoroheptanesulfonic acid	1.8	U	1.8	0.37	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoroheptanoic acid	1.8	U	1.8	0.48	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorohexanesulfonic acid	1.8	U	1.8	0.53	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorohexanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorononanesulfonic acid	1.8	U	1.8	0.37	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorononanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorooctanesulfonamide	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorooctanesulfonic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorooctanoic acid	1.8	U	1.8	0.59	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoropentanesulfonic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoropentanoic acid	3.7	U	3.7	0.92	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorotetradecanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluorotridecanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Perfluoroundecanoic acid	1.8	U	1.8	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
PES	3.7	U	3.7	0.46	ng/L		11/20/23 06:48	12/01/23 20:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	76.9		60 - 200				11/20/23 06:48	12/01/23 20:54	1
d9-N-EtFOSE-M	71.9		10 - 150				11/20/23 06:48	12/01/23 20:54	1
d3-NMePFOSA	63.6		15 - 130				11/20/23 06:48	12/01/23 20:54	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: EB-SS-102423

Lab Sample ID: 410-148678-16

Date Collected: 10/24/23 18:30

Matrix: Water

Date Received: 10/26/23 10:10

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	77.0		10 - 150	11/20/23 06:48	12/01/23 20:54	1
d5-NEtPFOSA	63.6		10 - 130	11/20/23 06:48	12/01/23 20:54	1
M2-6:2 FTS	79.3		60 - 200	11/20/23 06:48	12/01/23 20:54	1
M2-8:2 FTS	71.6		50 - 200	11/20/23 06:48	12/01/23 20:54	1
13C2 PFTeDA	79.9		10 - 130	11/20/23 06:48	12/01/23 20:54	1
13C3 HFPO-DA	75.0		25 - 160	11/20/23 06:48	12/01/23 20:54	1
13C3 PFBS	83.8		55 - 150	11/20/23 06:48	12/01/23 20:54	1
13C4 PFBA	77.4		10 - 130	11/20/23 06:48	12/01/23 20:54	1
13C4 PFHpA	77.8		55 - 150	11/20/23 06:48	12/01/23 20:54	1
13C5 PFPeA	79.4		35 - 150	11/20/23 06:48	12/01/23 20:54	1
13C8 PFOA	90.2		60 - 140	11/20/23 06:48	12/01/23 20:54	1
13C8 PFOS	83.1		45 - 140	11/20/23 06:48	12/01/23 20:54	1
d3-NMeFOSAA	84.5		45 - 200	11/20/23 06:48	12/01/23 20:54	1
d5-NEtFOSAA	77.7		10 - 200	11/20/23 06:48	12/01/23 20:54	1
13C3 PFHxS	79.4		55 - 150	11/20/23 06:48	12/01/23 20:54	1
13C5 PFHxA	69.9		55 - 150	11/20/23 06:48	12/01/23 20:54	1
13C6 PFDA	81.5		50 - 140	11/20/23 06:48	12/01/23 20:54	1
13C7 PFUnA	80.2		30 - 140	11/20/23 06:48	12/01/23 20:54	1
13C8 FOSA	83.5		30 - 130	11/20/23 06:48	12/01/23 20:54	1
13C2-PFDoDA	82.8		10 - 150	11/20/23 06:48	12/01/23 20:54	1
13C9 PFNA	90.1		55 - 140	11/20/23 06:48	12/01/23 20:54	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA (20-150)	PFDODA (20-150)	HFPODA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	PFBA (20-150)	C4PFHA (20-150)	13C5PHA (20-150)
410-148678-1	SS-79-0-2-102423	68.3 cn	78.8 cn	81.8 cn	95.3 cn	99.1 cn	101 cn	83.8 cn	78.1 cn
410-148678-1 - DL	SS-79-0-2-102423								
410-148678-2	SS-79-2-12-102423	72.6 cn	83.0 cn	89.3 cn	98.8 cn	97.5 cn	100 cn	96.0 cn	86.9 cn
410-148678-2 - DL	SS-79-2-12-102423								
410-148678-3	SS-80-0-2-102423	74.6 cn	82.6 cn	89.1 cn	109 cn	98.8 cn	102 cn	97.6 cn	79.4 cn
410-148678-3 - DL	SS-80-0-2-102423								
410-148678-4	SS-80-2-12-102423	73.6 cn	84.1 cn	96.4 cn	92.4 cn	86.5 cn	57.6 cn	93.1 cn	82.3 cn
410-148678-5	SS-81-0-2-102423	82.2 cn	89.5 cn	88.4 cn	106 cn	95.0 cn	105 cn	85.8 cn	80.9 cn
410-148678-5 - DL	SS-81-0-2-102423								
410-148678-6	SS-81-2-12-102423	69.3 cn	74.1 cn	82.9 cn	98.2 cn	96.1 cn	101 cn	96.9 cn	75.7 cn
410-148678-6 - DL	SS-81-2-12-102423								
410-148678-7	SS-82-0-2-102423	77.6 cn	86.8 cn	78.1 cn	108 cn	106 cn	97.0 cn	81.6 cn	65.1 cn
410-148678-7 - DL	SS-82-0-2-102423								
410-148678-8	SS-82-2-12-102423	68.7 cn	77.6 cn	84.4 cn	97.8 cn	91.7 cn	97.7 cn	90.5 cn	74.6 cn
410-148678-8 - DL	SS-82-2-12-102423								
410-148678-9	SS-83-0-2-102423	67.9 cn	86.7 cn	87.1 cn	101 cn	97.8 cn	105 cn	97.2 cn	80.5 cn
410-148678-9 - DL	SS-83-0-2-102423								
410-148678-10	SS-83-2-12-102423	79.6 cn	85.6 cn	84.3 cn	103 cn	106 cn	62.0 cn	88.9 cn	74.7 cn
410-148678-10 - DL	SS-83-2-12-102423								
410-148678-11	SS-84-0-2-102423	73.4 cn	79.3 cn	93.7 cn	103 cn	100 cn	68.7 cn	94.3 cn	81.6 cn
410-148678-11 - DL	SS-84-0-2-102423								
410-148678-12	SS-84-2-12-102423	73.3 cn	90.7 cn	90.2 cn	98.4 cn	98.5 cn	69.0 cn	101 cn	83.4 cn
410-148678-13	SS-73-0-2-102423	77.5 cn	91.2 cn	93.4 cn	101 cn	114 cn	76.8 cn	102 cn	75.5 cn
410-148678-13 - DL	SS-73-0-2-102423								
410-148678-14	SS-73-2-12-102423	75.4 cn	87.1 cn	99.2 cn	93.4 cn	99.0 cn	83.7 cn	98.6 cn	89.4 cn
410-148678-14 - DL	SS-73-2-12-102423								
410-148678-14 DU	SS-73-2-12-102423	76.5 cn	85.6 cn	89.7 cn	101 cn	96.4 cn	101 cn	93.6 cn	82.9 cn
410-148678-15	SS-74-0-2-102423	63.1 cn	82.0 cn	81.6 cn	107 cn	102 cn	98.6 cn	89.6 cn	78.6 cn
410-148678-15 - DL	SS-74-0-2-102423								
410-148678-15 MS	SS-74-0-2-102423	59.9	82.7	83.2	103	94.7	94.8	93.5	76.6
410-148678-15 MSD	SS-74-0-2-102423	60.5	85.2	87.6	91.3	93.0	93.5	99.1	76.1
LCS 410-439192/2-A	Lab Control Sample	69.0	70.3	86.6	90.5	96.8	101	89.0	84.5
LLCS 410-439192/3-A	Lab Control Sample	67.7	75.3	100	102	100	51.7	101	90.9
MB 410-439192/1-A	Method Blank	66.7	84.3	104	103	105	62.9	108	83.5
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFOS (20-150)
410-148678-1	SS-79-0-2-102423	77.7 cn	85.2 cn	69.6 cn	104 cn	82.0 cn	91.6 cn	85.6 cn	83.9 cn
410-148678-1 - DL	SS-79-0-2-102423								
410-148678-2	SS-79-2-12-102423	80.8 cn	84.9 cn	71.3 cn	119 cn	82.2 cn	98.5 cn	90.5 cn	98.3 cn
410-148678-2 - DL	SS-79-2-12-102423								
410-148678-3	SS-80-0-2-102423	87.6 cn	92.7 cn	73.0 cn	119 cn	84.1 cn	105 cn	87.5 cn	98.8 cn
410-148678-3 - DL	SS-80-0-2-102423								
410-148678-4	SS-80-2-12-102423	81.1 cn	85.6 cn	78.3 cn	113 cn	85.2 cn	94.9 cn	87.5 cn	81.1 cn
410-148678-5	SS-81-0-2-102423	80.4 cn	90.7 cn	83.6 cn	114 cn	88.6 cn	105 cn	88.7 cn	97.1 cn
410-148678-5 - DL	SS-81-0-2-102423								
410-148678-6	SS-81-2-12-102423	76.4 cn	86.0 cn	78.5 cn	98.5 cn	85.4 cn	95.9 cn	73.9 cn	77.7 cn
410-148678-6 - DL	SS-81-2-12-102423								
410-148678-7	SS-82-0-2-102423	72.6 cn	88.4 cn	76.3 cn	118 cn	75.2 cn	99.5 cn	93.9 cn	95.9 cn

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-148678-1

Project/Site: Taconic - Data Gap

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFS (20-150)
410-148678-7 - DL	SS-82-0-2-102423								
410-148678-8	SS-82-2-12-102423	84.0 cn	83.3 cn	73.3 cn	111 cn	84.6 cn	98.5 cn	94.3 cn	89.5 cn
410-148678-8 - DL	SS-82-2-12-102423								
410-148678-9	SS-83-0-2-102423	80.4 cn	93.8 cn	83.3 cn	107 cn	91.3 cn	103 cn	88.7 cn	83.6 cn
410-148678-9 - DL	SS-83-0-2-102423								
410-148678-10	SS-83-2-12-102423	82.5 cn	93.9 cn	81.0 cn	130 cn	87.4 cn	106 cn	87.4 cn	98.0 cn
410-148678-10 - DL	SS-83-2-12-102423								
410-148678-11	SS-84-0-2-102423	82.2 cn	82.9 cn	76.3 cn	114 cn	87.0 cn	99.0 cn	95.4 cn	88.8 cn
410-148678-11 - DL	SS-84-0-2-102423								
410-148678-12	SS-84-2-12-102423	78.7 cn	96.1 cn	86.7 cn	119 cn	90.2 cn	98.6 cn	87.2 cn	91.7 cn
410-148678-13	SS-73-0-2-102423	89.9 cn	93.6 cn	84.0 cn	115 cn	94.3 cn	100 cn	93.0 cn	85.1 cn
410-148678-13 - DL	SS-73-0-2-102423								
410-148678-14	SS-73-2-12-102423	87.4 cn	90.8 cn	77.5 cn	114 cn	81.7 cn	97.8 cn	89.3 cn	87.5 cn
410-148678-14 - DL	SS-73-2-12-102423								
410-148678-14 DU	SS-73-2-12-102423	79.9 cn	84.7 cn	83.5 cn	109 cn	85.6 cn	98.6 cn	88.7 cn	82.3 cn
410-148678-15	SS-74-0-2-102423	80.0 cn	86.8 cn	74.1 cn	112 cn	95.4 cn	96.8 cn	80.6 cn	92.9 cn
410-148678-15 - DL	SS-74-0-2-102423								
410-148678-15 MS	SS-74-0-2-102423	76.2	88.2	78.2	108	75.5	99.9	87.0	80.3
410-148678-15 MSD	SS-74-0-2-102423	78.6	87.2	80.0	114	91.3	97.0	84.7	92.2
LCS 410-439192/2-A	Lab Control Sample	78.5	85.3	78.8	94.7	104	87.8	93.2	91.5
LLCS 410-439192/3-A	Lab Control Sample	85.9	83.5	72.0	115	92.6	98.6	86.6	82.9
MB 410-439192/1-A	Method Blank	100	95.2	82.1	116	104	97.1	91.9	78.8

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		d3NMFSA (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-148678-1	SS-79-0-2-102423	63.4 cn	84.1 cn	55.7 cn	71.8 cn	71.3 cn			123 cn
410-148678-1 - DL	SS-79-0-2-102423						97.5 cn	120 cn	
410-148678-2	SS-79-2-12-102423	68.6 cn	102 cn	64.3 cn	82.9 cn	81.6 cn			139 cn
410-148678-2 - DL	SS-79-2-12-102423						108 cn	92.3 cn	
410-148678-3	SS-80-0-2-102423	66.2 cn	102 cn	60.3 cn	49.9 cn	35.7 cn	140 cn		132 cn
410-148678-3 - DL	SS-80-0-2-102423							96.1 cn	
410-148678-4	SS-80-2-12-102423	61.4 cn	78.6 cn	51.2 cn	70.0 cn	65.6 cn	110 cn	144 cn	115 cn
410-148678-5	SS-81-0-2-102423	69.9 cn	96.9 cn	62.4 cn	81.3 cn	78.2 cn			
410-148678-5 - DL	SS-81-0-2-102423						132 cn	82.3 cn	120 cn
410-148678-6	SS-81-2-12-102423	63.1 cn	81.5 cn	52.7 cn	69.2 cn	64.0 cn			145 cn
410-148678-6 - DL	SS-81-2-12-102423						109 cn	110 cn	
410-148678-7	SS-82-0-2-102423	72.1 cn	100 cn	62.5 cn	79.3 cn	78.2 cn			
410-148678-7 - DL	SS-82-0-2-102423						135 cn	109 cn	129 cn
410-148678-8	SS-82-2-12-102423	62.7 cn	84.5 cn	52.3 cn	72.1 cn	68.2 cn	145 cn		118 cn
410-148678-8 - DL	SS-82-2-12-102423							142 cn	
410-148678-9	SS-83-0-2-102423	62.2 cn	86.1 cn	55.7 cn	71.8 cn	66.1 cn			
410-148678-9 - DL	SS-83-0-2-102423						101 cn	138 cn	97.2 cn
410-148678-10	SS-83-2-12-102423	69.1 cn	96.9 cn	62.1 cn	87.1 cn	79.9 cn			
410-148678-10 - DL	SS-83-2-12-102423						108 cn	110 cn	89.3 cn
410-148678-11	SS-84-0-2-102423	64.0 cn	93.0 cn	57.7 cn	73.6 cn	69.8 cn			114 cn
410-148678-11 - DL	SS-84-0-2-102423						101 cn	124 cn	
410-148678-12	SS-84-2-12-102423	61.3 cn	88.7 cn	52.1 cn	66.5 cn	56.4 cn	136 cn	142 cn	119 cn
410-148678-13	SS-73-0-2-102423	71.1 cn	92.3 cn	63.4 cn	80.2 cn	79.5 cn			145 cn
410-148678-13 - DL	SS-73-0-2-102423						88.6 cn	113 cn	
410-148678-14	SS-73-2-12-102423	62.2 cn	88.8 cn	53.3 cn	75.2 cn	69.4 cn	130 cn		118 cn

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		d3NMFSa (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-148678-14 - DL	SS-73-2-12-102423							124 cn	
410-148678-14 DU	SS-73-2-12-102423	64.0 cn	82.5 cn	51.0 cn	74.9 cn	69.4 cn	149 cn	147 cn	120 cn
410-148678-15	SS-74-0-2-102423	72.8 cn	93.2 cn	66.1 cn	81.1 cn	79.1 cn			
410-148678-15 - DL	SS-74-0-2-102423						109 cn	107 cn	102 cn
410-148678-15 MS	SS-74-0-2-102423	70.8	91.6	64.2	77.6	76.9	158 *5+	175 *5+	144
410-148678-15 MSD	SS-74-0-2-102423	73.3	97.5	67.3	84.0	82.6	167 *5+	163 *5+	155 *5+
LCS 410-439192/2-A	Lab Control Sample	61.2	94.8	47.7	70.8	62.5	115	124	104
LLCS 410-439192/3-A	Lab Control Sample	59.8	91.8	50.1	76.0	71.2	125	126	111
MB 410-439192/1-A	Method Blank	57.3	87.6	47.3	72.8	68.4	105	126	106

Surrogate Legend

PFTDA = 13C2 PFTeDA
PFDODA = 13C2-PFDODA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
13C5PHA = 13C5 PFHxA
PFPeA = 13C5 PFPeA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
C9PFNA = 13C9 PFNA
d3NMFOF = d3-NMeFOSAA
d3NMFSa = d3-NMePFOSA
d5NEFOS = d5-NEtFOSAA
d5NPFSA = d5-NEtPFOSA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS (60-200)	NEFM (10-150)	d3NMFSa (15-130)	NMFM (10-150)	d5NPFSA (10-130)	M262FTS (60-200)	M282FTS (50-200)	PFTDA (10-130)
410-148678-16	EB-SS-102423	76.9	71.9	63.6	77.0	63.6	79.3	71.6	79.9
MB 410-445298/1-A	Method Blank	76.0	70.1	62.2	73.5	59.7	71.8	72.6	72.4

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (25-160)	C3PFBS (55-150)	PFBA (10-130)	C4PFHA (55-150)	PFPeA (35-150)	C8PFOA (60-140)	C8PFOS (45-140)	d3NMFOF (45-200)
410-148678-16	EB-SS-102423	75.0	83.8	77.4	77.8	79.4	90.2	83.1	84.5
MB 410-445298/1-A	Method Blank	70.3	80.2	73.1	76.5	71.0	76.5	80.6	80.9

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		d5NEFOS (10-200)	C3PFHS (55-150)	13C5PHA (55-150)	C6PFDA (50-140)	13C7PUA (30-140)	PFOSA (30-130)	PFDODA (10-150)	C9PFNA (55-140)
410-148678-16	EB-SS-102423	77.7	79.4	69.9	81.5	80.2	83.5	82.8	90.1
MB 410-445298/1-A	Method Blank	73.4	82.1	72.6	76.6	81.7	78.4	77.2	76.1
Surrogate Legend									
M242FTS = M2-4:2 FTS									
NEFM = d9-N-EtFOSE-M									
d3NMFSa = d3-NMePFOSA									
NMFM = d7-N-MeFOSE-M									
d5NPFSA = d5-NEtPFOSA									
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									
C8PFOA = 13C8 PFOA									
C8PFOS = 13C8 PFOS									
d3NMFOs = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									
C3PFHS = 13C3 PFHxS									
13C5PHA = 13C5 PFHxA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFOSA = 13C8 FOSA									
PFDODA = 13C2-PFDODA									
C9PFNA = 13C9 PFNA									

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		NEFM (10-150)	NMFM (10-150)	d5NPFSA (10-130)	PFTDA (10-130)	HFPODA (25-160)	C3PFBS (25-150)	PFBA (10-130)	C4PFHA (40-150)
LCS 410-445298/2-A	Lab Control Sample	76.9	78.1	63.3	76.3	73.4	83.3	76.5	75.2
LLCS 410-445298/3-A	Lab Control Sample	70.2	72.3	58.1	73.6	74.5	77.2	73.2	77.4
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA (40-150)	C8PFOA (30-140)	C8PFOS (20-140)	d5NEFOS (10-200)	C3PFHS (25-150)	13C5PHA (40-150)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 410-445298/2-A	Lab Control Sample	66.5	89.9	83.3	78.4	79.3	69.8	83.6	83.4
LLCS 410-445298/3-A	Lab Control Sample	76.5	86.2	78.2	75.1	75.3	74.5	82.3	82.0
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA (10-130)	PFDODA (10-150)	C9PFNA (30-140)	d3NMFOs (10-200)	d3NMFSa (10-130)	M242FTS (25-200)	M262FTS (25-200)	M282FTS (25-200)
LCS 410-445298/2-A	Lab Control Sample	83.6	80.9	87.3	80.2	62.0	80.3	77.8	73.5
LLCS 410-445298/3-A	Lab Control Sample	73.6	75.8	83.3	74.4	57.4	76.4	70.8	75.7
Surrogate Legend									
NEFM = d9-N-EtFOSE-M									
NMFM = d7-N-MeFOSE-M									

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-148678-1

Project/Site: Taconic - Data Gap

d5NPFSA = d5-NEtPFOSA
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d5NEFOS = d5-NEtFOSAA
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-439192/1-A

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.80	U	0.80	0.20	ng/g		11/03/23 07:56	11/18/23 03:41	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g		11/03/23 07:56	11/18/23 03:41	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		11/03/23 07:56	11/18/23 03:41	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		11/03/23 07:56	11/18/23 03:41	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g		11/03/23 07:56	11/18/23 03:41	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g		11/03/23 07:56	11/18/23 03:41	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g		11/03/23 07:56	11/18/23 03:41	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		11/03/23 07:56	11/18/23 03:41	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		11/03/23 07:56	11/18/23 03:41	1
9CI-PF3ONS	0.80	U	0.80	0.20	ng/g		11/03/23 07:56	11/18/23 03:41	1
DONA	0.80	U	0.80	0.20	ng/g		11/03/23 07:56	11/18/23 03:41	1
HFPODA	0.80	U	0.80	0.051	ng/g		11/03/23 07:56	11/18/23 03:41	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
NMeFOSA	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorodecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoroheptanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorohexanoic acid	0.20	U	0.20	0.059	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorononanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorooctanesulfonic acid	0.20	U	0.20	0.051	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorooctanoic acid	0.20	U	0.20	0.051	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoropentanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:56	11/18/23 03:41	1
PES	0.40	U	0.40	0.10	ng/g		11/03/23 07:56	11/18/23 03:41	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	66.7		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C3 HFPO-DA	104		20 - 150	11/03/23 07:56	11/18/23 03:41	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-439192/1-A

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439192

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	103		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C4 PFBA	62.9		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C4 PFHpA	108		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C5 PFPeA	100		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C8 PFOA	104		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C8 PFOS	97.1		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C3 PFHxS	105		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C5 PFHxA	83.5		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C6 PFDA	95.2		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C7 PFUnA	82.1		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C8 FOSA	116		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C2-PFDoDA	84.3		20 - 150	11/03/23 07:56	11/18/23 03:41	1
13C9 PFNA	91.9		20 - 150	11/03/23 07:56	11/18/23 03:41	1
d3-NMeFOSAA	78.8		20 - 150	11/03/23 07:56	11/18/23 03:41	1
d3-NMePFOSA	57.3		20 - 150	11/03/23 07:56	11/18/23 03:41	1
d5-NEtFOSAA	87.6		20 - 150	11/03/23 07:56	11/18/23 03:41	1
d5-NEtPFOSA	47.3		20 - 150	11/03/23 07:56	11/18/23 03:41	1
d7-N-MeFOSE-M	72.8		20 - 150	11/03/23 07:56	11/18/23 03:41	1
d9-N-EtFOSE-M	68.4		20 - 150	11/03/23 07:56	11/18/23 03:41	1
M2-4:2 FTS	105		20 - 150	11/03/23 07:56	11/18/23 03:41	1
M2-6:2 FTS	126		20 - 150	11/03/23 07:56	11/18/23 03:41	1
M2-8:2 FTS	106		20 - 150	11/03/23 07:56	11/18/23 03:41	1

Lab Sample ID: LCS 410-439192/2-A

Matrix: Solid

Analysis Batch: 446373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	9.42	9.11		ng/g		97	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.39	11.1		ng/g		118	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	31.3		ng/g		125	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	28.2		ng/g		113	40 - 150
3-Perfluoroheptylpropanoic acid	62.6	71.7		ng/g		115	40 - 150
3-Perfluoropentylpropanoic acid	62.6	72.7		ng/g		116	40 - 150
3-Perfluoropropyl propanoic acid	12.5	19.3	*+	ng/g		154	40 - 150
6:2 Fluorotelomer sulfonic acid	9.52	10.8		ng/g		113	40 - 150
8:2 Fluorotelomer sulfonic acid	9.62	11.3		ng/g		118	40 - 150
9Cl-PF3ONS	9.32	8.73		ng/g		94	40 - 150
DONA	9.42	10.7		ng/g		114	40 - 150
HFPODA	10.0	10.7		ng/g		107	40 - 150
NEtFOSAA	2.50	3.05		ng/g		122	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	2.86		ng/g		114	40 - 150
NMeFOSA	2.50	2.71		ng/g		108	40 - 150
NMeFOSAA	2.50	3.17		ng/g		126	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-439192/2-A

Matrix: Solid

Analysis Batch: 446373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid	5.01	6.97		ng/g		139	40 - 150
Perfluoro-3-methoxypropanoic acid	5.01	6.93		ng/g		138	40 - 150
Perfluoro-4-methoxybutanoic acid	5.01	6.61		ng/g		132	40 - 150
Perfluorobutanesulfonic acid	2.22	2.83		ng/g		128	40 - 150
Perfluorobutanoic acid	10.0	12.1		ng/g		121	40 - 150
Perfluorodecanesulfonic acid	2.42	2.54		ng/g		105	40 - 150
Perfluorodecanoic acid	2.50	3.30		ng/g		132	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.43	2.64		ng/g		109	40 - 150
Perfluorododecanoic acid	2.50	3.27		ng/g		131	40 - 150
Perfluoroheptanesulfonic acid	2.39	3.26		ng/g		137	40 - 150
Perfluoroheptanoic acid	2.50	2.87		ng/g		115	40 - 150
Perfluorohexanesulfonic acid	2.29	2.59		ng/g		113	40 - 150
Perfluorohexanoic acid	2.50	3.26		ng/g		130	40 - 150
Perfluorononanesulfonic acid	2.41	2.55		ng/g		106	40 - 150
Perfluorononanoic acid	2.50	4.11	*+	ng/g		164	40 - 150
Perfluorooctanesulfonamide	2.50	2.81		ng/g		112	40 - 150
Perfluorooctanesulfonic acid	2.32	2.92		ng/g		126	40 - 150
Perfluorooctanoic acid	2.50	3.57		ng/g		143	40 - 150
Perfluoropentanesulfonic acid	2.36	2.94		ng/g		125	40 - 150
Perfluoropentanoic acid	5.01	7.30		ng/g		146	40 - 150
Perfluorotetradecanoic acid	2.50	3.17		ng/g		127	40 - 150
Perfluorotridecanoic acid	2.50	3.17		ng/g		126	40 - 150
Perfluoroundecanoic acid	2.50	3.22		ng/g		129	40 - 150
PES	4.46	5.10		ng/g		114	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	69.0		20 - 150
13C3 HFPO-DA	86.6		20 - 150
13C3 PFBS	90.5		20 - 150
13C4 PFBA	101		20 - 150
13C4 PFHpA	89.0		20 - 150
13C5 PFPeA	78.5		20 - 150
13C8 PFOA	104		20 - 150
13C8 PFOS	87.8		20 - 150
13C3 PFHxS	96.8		20 - 150
13C5 PFHxA	84.5		20 - 150
13C6 PFDA	85.3		20 - 150
13C7 PFUnA	78.8		20 - 150
13C8 FOSA	94.7		20 - 150
13C2-PFDoDA	70.3		20 - 150
13C9 PFNA	93.2		20 - 150
d3-NMeFOSAA	91.5		20 - 150
d3-NMePFOSA	61.2		20 - 150
d5-NEtFOSAA	94.8		20 - 150
d5-NEtPFOSA	47.7		20 - 150
d7-N-MeFOSE-M	70.8		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-439192/2-A

Matrix: Solid

Analysis Batch: 446373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439192

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	62.5		20 - 150
M2-4:2 FTS	115		20 - 150
M2-6:2 FTS	124		20 - 150
M2-8:2 FTS	104		20 - 150

Lab Sample ID: LLCS 410-439192/3-A

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	1.51	1.16		ng/g		77	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.50	1.58		ng/g		105	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	4.50		ng/g		112	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	4.10		ng/g		103	40 - 150
3-Perfluoroheptylpropanoic acid	10.0	12.6		ng/g		126	40 - 150
3-Perfluoropentylpropanoic acid	10.0	13.1		ng/g		130	40 - 150
3-Perfluoropropyl propanoic acid	2.00	3.17	*+	ng/g		158	40 - 150
6:2 Fluorotelomer sulfonic acid	1.52	1.70		ng/g		112	40 - 150
8:2 Fluorotelomer sulfonic acid	1.54	1.64		ng/g		107	40 - 150
9Cl-PF3ONS	1.49	1.44		ng/g		96	40 - 150
DONA	1.51	1.69		ng/g		112	40 - 150
HFPODA	1.60	1.64		ng/g		103	40 - 150
NEtFOSAA	0.400	0.463		ng/g		116	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.405		ng/g		101	40 - 150
NMeFOSA	0.400	0.426		ng/g		107	40 - 150
NMeFOSAA	0.400	0.474		ng/g		119	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid	0.800	0.768		ng/g		96	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.974		ng/g		122	40 - 150
Perfluoro-4-methoxybutanoic acid	0.800	1.22	*+	ng/g		153	40 - 150
Perfluorobutanesulfonic acid	0.355	0.410		ng/g		116	40 - 150
Perfluorobutanoic acid	1.60	1.62		ng/g		101	40 - 150
Perfluorodecanesulfonic acid	0.386	0.334		ng/g		86	40 - 150
Perfluorodecanoic acid	0.400	0.466		ng/g		116	40 - 150
Perfluorodecanesulfonic acid (PFDoS)	0.388	0.355		ng/g		91	40 - 150
Perfluorododecanoic acid	0.400	0.505		ng/g		126	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.450		ng/g		118	40 - 150
Perfluoroheptanoic acid	0.400	0.454		ng/g		114	40 - 150
Perfluorohexanesulfonic acid	0.366	0.420		ng/g		115	40 - 150
Perfluorohexanoic acid	0.400	0.526		ng/g		131	40 - 150
Perfluorononanesulfonic acid	0.385	0.351		ng/g		91	40 - 150
Perfluorononanoic acid	0.400	0.582		ng/g		145	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-439192/3-A

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	0.400	0.398		ng/g		99	40 - 150
Perfluorooctanesulfonic acid	0.371	0.398		ng/g		107	40 - 150
Perfluorooctanoic acid	0.400	0.539		ng/g		135	40 - 150
Perfluoropentanesulfonic acid	0.376	0.399		ng/g		106	40 - 150
Perfluoropentanoic acid	0.800	1.04	I	ng/g		130	40 - 150
Perfluorotetradecanoic acid	0.400	0.459		ng/g		115	40 - 150
Perfluorotridecanoic acid	0.400	0.407		ng/g		102	40 - 150
Perfluoroundecanoic acid	0.400	0.528		ng/g		132	40 - 150
PES	0.712	0.783		ng/g		110	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFTeDA	67.7		20 - 150
13C3 HFPO-DA	100		20 - 150
13C3 PFBS	102		20 - 150
13C4 PFBA	51.7		20 - 150
13C4 PFHpA	101		20 - 150
13C5 PFPeA	85.9		20 - 150
13C8 PFOA	92.6		20 - 150
13C8 PFOS	98.6		20 - 150
13C3 PFHxS	100		20 - 150
13C5 PFHxA	90.9		20 - 150
13C6 PFDA	83.5		20 - 150
13C7 PFUnA	72.0		20 - 150
13C8 FOSA	115		20 - 150
13C2-PFDoDA	75.3		20 - 150
13C9 PFNA	86.6		20 - 150
d3-NMeFOSAA	82.9		20 - 150
d3-NMePFOSA	59.8		20 - 150
d5-NEtFOSAA	91.8		20 - 150
d5-NEtPFOSA	50.1		20 - 150
d7-N-MeFOSE-M	76.0		20 - 150
d9-N-EtFOSE-M	71.2		20 - 150
M2-4:2 FTS	125		20 - 150
M2-6:2 FTS	126		20 - 150
M2-8:2 FTS	111		20 - 150

Lab Sample ID: 410-148678-15 MS

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-74-0-2-102423

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	0.80	U cn	9.39	8.87		ng/g	⚠	94	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	9.36	11.3		ng/g	⚠	121	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	25.0	29.8		ng/g	⚠	120	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	25.0	27.1		ng/g	⚠	109	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148678-15 MS

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-74-0-2-102423

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoroheptylpropanoic acid	5.0	U F1 cn	62.4	103	F1	ng/g	✱	165	40 - 150
3-Perfluoropentylpropanoic acid	5.0	U F1 cn	62.4	96.8	F1	ng/g	✱	155	40 - 150
3-Perfluoropropyl propanoic acid	1.0	U F1 *+ cn	12.5	20.5	F1	ng/g	✱	164	40 - 150
6:2 Fluorotelomer sulfonic acid	1.0	U cn	9.49	11.7		ng/g	✱	123	40 - 150
8:2 Fluorotelomer sulfonic acid	1.0	U cn	9.59	11.5		ng/g	✱	120	40 - 150
9Cl-PF3ONS	0.80	U cn	9.29	10.4		ng/g	✱	112	40 - 150
DONA	0.80	U cn	9.39	11.1		ng/g	✱	118	40 - 150
HFPODA	0.80	U cn	9.97	10.6		ng/g	✱	106	40 - 150
NEtFOSAA	0.20	U cn	2.50	3.31		ng/g	✱	133	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	2.50	2.82		ng/g	✱	113	40 - 150
NMeFOSA	0.20	U cn	2.50	2.76		ng/g	✱	111	40 - 150
NMeFOSAA	0.20	U cn	2.50	3.32		ng/g	✱	133	40 - 150
Nonafluoro-3,6-dioxahexanoic acid	0.40	U cn	4.99	4.41		ng/g	✱	88	40 - 150
Perfluoro-3-methoxypropanoic acid	0.40	U cn	4.99	7.12		ng/g	✱	143	40 - 150
Perfluoro-4-methoxybutanoic acid	0.40	U F1 *+ cn	4.99	7.91	F1	ng/g	✱	158	40 - 150
Perfluorobutanesulfonic acid	0.20	U cn	2.21	2.50		ng/g	✱	113	40 - 150
Perfluorobutanoic acid	0.80	U cn	9.98	11.9		ng/g	✱	119	40 - 150
Perfluorodecanesulfonic acid	0.20	U cn	2.41	2.45		ng/g	✱	102	40 - 150
Perfluorodecanoic acid	0.098	J cn	2.50	3.42		ng/g	✱	133	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	2.42	2.17		ng/g	✱	89	40 - 150
Perfluorododecanoic acid	0.060	J cn	2.50	3.50		ng/g	✱	138	40 - 150
Perfluoroheptanesulfonic acid	0.20	U cn	2.38	2.89		ng/g	✱	121	40 - 150
Perfluoroheptanoic acid	0.20	U cn	2.50	3.06		ng/g	✱	123	40 - 150
Perfluorohexanesulfonic acid	0.20	U cn	2.28	2.79		ng/g	✱	122	40 - 150
Perfluorohexanoic acid	0.20	U F1 cn	2.50	3.88	F1	ng/g	✱	155	40 - 150
Perfluorononanesulfonic acid	0.20	U cn	2.40	2.60		ng/g	✱	108	40 - 150
Perfluorononanoic acid	0.15	J F1 *+ cn	2.50	4.12	F1	ng/g	✱	159	40 - 150
Perfluorooctanesulfonamide	0.20	U cn	2.50	2.73		ng/g	✱	109	40 - 150
Perfluorooctanesulfonic acid	0.30	cn	2.32	2.83		ng/g	✱	109	40 - 150
Perfluorooctanoic acid	0.17	J F1 cn	2.50	4.04	F1	ng/g	✱	155	40 - 150
Perfluoropentanesulfonic acid	0.20	U cn	2.35	2.84		ng/g	✱	121	40 - 150
Perfluoropentanoic acid	0.40	U cn	4.99	7.01	I	ng/g	✱	140	40 - 150
Perfluorotetradecanoic acid	0.20	U cn	2.50	3.00		ng/g	✱	120	40 - 150
Perfluorotridecanoic acid	0.20	U cn	2.50	3.15		ng/g	✱	126	40 - 150
Perfluoroundecanoic acid	0.12	J cn	2.50	3.48		ng/g	✱	135	40 - 150
PES	0.40	U F1 cn	4.44	6.08		ng/g	✱	137	40 - 150
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
13C2 PFTeDA	59.9		20 - 150						
13C3 HFPO-DA	83.2		20 - 150						
13C3 PFBS	103		20 - 150						
13C4 PFBA	94.8		20 - 150						
13C4 PFHpA	93.5		20 - 150						
13C5 PFPeA	76.2		20 - 150						

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148678-15 MS

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-74-0-2-102423

Prep Type: Total/NA

Prep Batch: 439192

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C8 PFOA	75.5		20 - 150
13C8 PFOS	99.9		20 - 150
13C3 PFHxS	94.7		20 - 150
13C5 PFHxA	76.6		20 - 150
13C6 PFDA	88.2		20 - 150
13C7 PFUnA	78.2		20 - 150
13C8 FOSA	108		20 - 150
13C2-PFDoDA	82.7		20 - 150
13C9 PFNA	87.0		20 - 150
d3-NMeFOSAA	80.3		20 - 150
d3-NMePFOSA	70.8		20 - 150
d5-NEtFOSAA	91.6		20 - 150
d5-NEtPFOSA	64.2		20 - 150
d7-N-MeFOSE-M	77.6		20 - 150
d9-N-EtFOSE-M	76.9		20 - 150
M2-4:2 FTS	158	*5+	20 - 150
M2-6:2 FTS	175	*5+	20 - 150
M2-8:2 FTS	144		20 - 150

Lab Sample ID: 410-148678-15 MSD

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-74-0-2-102423

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11Cl-PF3OUdS	0.80	U cn	9.40	8.38		ng/g	✱	89	40 - 150	6	30
1H, 1H, 2H, 2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	9.37	9.82		ng/g	✱	105	40 - 150	14	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	25.0	29.5		ng/g	✱	118	40 - 150	1	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	25.0	27.0		ng/g	✱	108	40 - 150	0	30
3-Perfluoroheptylpropanoic acid	5.0	U F1 cn	62.4	101	F1	ng/g	✱	162	40 - 150	2	30
3-Perfluoropentylpropanoic acid	5.0	U F1 cn	62.4	102	F1	ng/g	✱	164	40 - 150	5	30
3-Perfluoropropyl propanoic acid	1.0	U F1 *+ cn	12.5	21.0	F1	ng/g	✱	168	40 - 150	2	30
6:2 Fluorotelomer sulfonic acid	1.0	U cn	9.50	12.1		ng/g	✱	127	40 - 150	3	30
8:2 Fluorotelomer sulfonic acid	1.0	U cn	9.60	11.1		ng/g	✱	116	40 - 150	4	30
9Cl-PF3ONS	0.80	U cn	9.30	10.3		ng/g	✱	110	40 - 150	1	30
DONA	0.80	U cn	9.40	11.4		ng/g	✱	121	40 - 150	3	30
HFPODA	0.80	U cn	9.98	10.2		ng/g	✱	103	40 - 150	3	30
NEtFOSAA	0.20	U cn	2.50	3.34		ng/g	✱	134	40 - 150	1	30
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	2.50	2.77		ng/g	✱	111	40 - 150	2	30
NMeFOSA	0.20	U cn	2.50	2.86		ng/g	✱	115	40 - 150	4	30
NMeFOSAA	0.20	U cn	2.50	2.98		ng/g	✱	119	40 - 150	11	30
Nonfluoro-3,6-dioxahexanoic acid	0.40	U cn	5.00	4.93		ng/g	✱	99	40 - 150	11	30
Perfluoro-3-methoxypropanoic acid	0.40	U cn	5.00	7.21		ng/g	✱	144	40 - 150	1	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148678-15 MSD

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-74-0-2-102423

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid	0.40	U F1 *+ cn	5.00	8.04	F1	ng/g	✱	161	40 - 150	2	30
Perfluorobutanesulfonic acid	0.20	U cn	2.22	2.82		ng/g	✱	127	40 - 150	12	30
Perfluorobutanoic acid	0.80	U cn	10.0	11.9		ng/g	✱	119	40 - 150	0	30
Perfluorodecanesulfonic acid	0.20	U cn	2.41	2.42		ng/g	✱	100	40 - 150	1	30
Perfluorodecanoic acid	0.098	J cn	2.50	3.21		ng/g	✱	125	40 - 150	6	30
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	2.42	2.26		ng/g	✱	93	40 - 150	4	30
Perfluorododecanoic acid	0.060	J cn	2.50	3.28		ng/g	✱	129	40 - 150	6	30
Perfluoroheptanesulfonic acid	0.20	U cn	2.38	2.85		ng/g	✱	120	40 - 150	1	30
Perfluoroheptanoic acid	0.20	U cn	2.50	3.44		ng/g	✱	138	40 - 150	12	30
Perfluorohexanesulfonic acid	0.20	U cn	2.28	2.62		ng/g	✱	114	40 - 150	6	30
Perfluorohexanoic acid	0.20	U F1 cn	2.50	3.90	F1	ng/g	✱	156	40 - 150	1	30
Perfluorononanesulfonic acid	0.20	U cn	2.40	2.66		ng/g	✱	111	40 - 150	2	30
Perfluorononanoic acid	0.15	J F1 *+ cn	2.50	3.97	F1	ng/g	✱	153	40 - 150	4	30
Perfluorooctanesulfonamide	0.20	U cn	2.50	2.71		ng/g	✱	108	40 - 150	1	30
Perfluorooctanesulfonic acid	0.30	cn	2.32	3.04		ng/g	✱	118	40 - 150	7	30
Perfluorooctanoic acid	0.17	J F1 cn	2.50	4.08	F1	ng/g	✱	156	40 - 150	1	30
Perfluoropentanesulfonic acid	0.20	U cn	2.35	2.83		ng/g	✱	121	40 - 150	0	30
Perfluoropentanoic acid	0.40	U cn	5.00	7.24		ng/g	✱	145	40 - 150	3	30
Perfluorotetradecanoic acid	0.20	U cn	2.50	2.91		ng/g	✱	117	40 - 150	3	30
Perfluorotridecanoic acid	0.20	U cn	2.50	2.85		ng/g	✱	114	40 - 150	10	30
Perfluoroundecanoic acid	0.12	J cn	2.50	3.29		ng/g	✱	127	40 - 150	5	30
PES	0.40	U F1 cn	4.45	6.77	F1	ng/g	✱	152	40 - 150	11	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFTeDA	60.5		20 - 150
13C3 HFPO-DA	87.6		20 - 150
13C3 PFBS	91.3		20 - 150
13C4 PFBA	93.5		20 - 150
13C4 PFHpA	99.1		20 - 150
13C5 PFPeA	78.6		20 - 150
13C8 PFOA	91.3		20 - 150
13C8 PFOS	97.0		20 - 150
13C3 PFHxS	93.0		20 - 150
13C5 PFHxA	76.1		20 - 150
13C6 PFDA	87.2		20 - 150
13C7 PFUnA	80.0		20 - 150
13C8 FOSA	114		20 - 150
13C2-PFDoDA	85.2		20 - 150
13C9 PFNA	84.7		20 - 150
d3-NMeFOSAA	92.2		20 - 150
d3-NMePFOSA	73.3		20 - 150
d5-NEtFOSAA	97.5		20 - 150
d5-NEtPFOSA	67.3		20 - 150
d7-N-MeFOSE-M	84.0		20 - 150
d9-N-EtFOSE-M	82.6		20 - 150
M2-4:2 FTS	167	*5+	20 - 150
M2-6:2 FTS	163	*5+	20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148678-15 MSD

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-74-0-2-102423

Prep Type: Total/NA

Prep Batch: 439192

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
M2-8:2 FTS	155	*5+	20 - 150

Lab Sample ID: 410-148678-14 DU

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-73-2-12-102423

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Sample		DU DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
11Cl-PF3OUdS	0.80	U cn	0.80	U cn	ng/g	✱	NC	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U cn	0.80	U cn	ng/g	✱	NC	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	U cn	ng/g	✱	NC	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U cn	2.0	U cn	ng/g	✱	NC	30
3-Perfluoroheptylpropanoic acid	5.0	U cn	5.0	U cn	ng/g	✱	NC	30
3-Perfluoropentylpropanoic acid	5.0	U cn	5.0	U cn	ng/g	✱	NC	30
3-Perfluoropropyl propanoic acid	1.0	U *+ cn	1.0	U *+ cn	ng/g	✱	NC	30
6:2 Fluorotelomer sulfonic acid	1.0	U cn	1.0	U cn	ng/g	✱	NC	30
8:2 Fluorotelomer sulfonic acid	1.0	U cn	1.0	U cn	ng/g	✱	NC	30
9Cl-PF3ONS	0.80	U cn	0.80	U cn	ng/g	✱	NC	30
DONA	0.80	U cn	0.80	U cn	ng/g	✱	NC	30
HFPODA	0.80	U cn	0.80	U cn	ng/g	✱	NC	30
NEtFOSAA	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
N-ethylperfluoro-1-octanesulfonamide	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
NMeFOSA	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
NMeFOSAA	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U cn	0.40	U cn	ng/g	✱	NC	30
Perfluoro-3-methoxypropanoic acid	0.40	U cn	0.40	U cn	ng/g	✱	NC	30
Perfluoro-4-methoxybutanoic acid	0.40	U *+ cn	0.40	U *+ cn	ng/g	✱	NC	30
Perfluorobutanesulfonic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorobutanoic acid	0.80	U cn	0.80	U cn	ng/g	✱	NC	30
Perfluorodecanesulfonic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorodecanoic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorododecanoic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluoroheptanesulfonic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluoroheptanoic acid	0.070	J cn	0.0628	J cn	ng/g	✱	11	30
Perfluorohexanesulfonic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorohexanoic acid	0.065	J I cn	0.20	U cn	ng/g	✱	NC	30
Perfluorononanesulfonic acid	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorononanoic acid	0.21	*+ cn	0.252	I *+ cn	ng/g	✱	18	30
Perfluorooctanesulfonamide	0.20	U cn	0.20	U cn	ng/g	✱	NC	30
Perfluorooctanesulfonic acid	0.29	cn	0.272	cn	ng/g	✱	8	30
Perfluorooctanoic acid	1.0	cn	0.986	cn	ng/g	✱	1	30

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QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148678-14 DU

Matrix: Solid

Analysis Batch: 444874

Client Sample ID: SS-73-2-12-102423

Prep Type: Total/NA

Prep Batch: 439192

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluoropentanesulfonic acid	0.20	U cn	0.20	U cn	ng/g	✖	NC	30
Perfluoropentanoic acid	0.40	U cn	0.40	U cn	ng/g	✖	NC	30
Perfluorotetradecanoic acid	0.20	U cn	0.20	U cn	ng/g	✖	NC	30
Perfluorotridecanoic acid	0.20	U cn	0.20	U cn	ng/g	✖	NC	30
Perfluoroundecanoic acid	0.20	U cn	0.20	U cn	ng/g	✖	NC	30
PES	0.40	U cn	0.40	U cn	ng/g	✖	NC	30

Isotope Dilution	DU	DU	Limits
	%Recovery	Qualifier	
13C2 PFTeDA	76.5	cn	20 - 150
13C3 HFPO-DA	89.7	cn	20 - 150
13C3 PFBS	101	cn	20 - 150
13C4 PFBA	101	cn	20 - 150
13C4 PFHpA	93.6	cn	20 - 150
13C5 PFPeA	79.9	cn	20 - 150
13C8 PFOA	85.6	cn	20 - 150
13C8 PFOS	98.6	cn	20 - 150
13C3 PFHxS	96.4	cn	20 - 150
13C5 PFHxA	82.9	cn	20 - 150
13C6 PFDA	84.7	cn	20 - 150
13C7 PFUnA	83.5	cn	20 - 150
13C8 FOSA	109	cn	20 - 150
13C2-PFDoDA	85.6	cn	20 - 150
13C9 PFNA	88.7	cn	20 - 150
d3-NMeFOSAA	82.3	cn	20 - 150
d3-NMePFOSA	64.0	cn	20 - 150
d5-NEtFOSAA	82.5	cn	20 - 150
d5-NEtPFOSA	51.0	cn	20 - 150
d7-N-MeFOSE-M	74.9	cn	20 - 150
d9-N-EtFOSE-M	69.4	cn	20 - 150
M2-4:2 FTS	149	cn	20 - 150
M2-6:2 FTS	147	cn	20 - 150
M2-8:2 FTS	120	cn	20 - 150

Lab Sample ID: MB 410-445298/1-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 445298

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
11Cl-PF3OUdS	8.0	U	8.0	2.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	1.7	ng/L		11/20/23 06:48	12/01/23 17:39	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
3-Perfluoroheptylpropanoic acid	50	U	50	10	ng/L		11/20/23 06:48	12/01/23 17:39	1
3-Perfluoropentylpropanoic acid	50	U	50	10	ng/L		11/20/23 06:48	12/01/23 17:39	1
3-Perfluoropropyl propanoic acid	10	U	10	1.5	ng/L		11/20/23 06:48	12/01/23 17:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-445298/1-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 445298

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
6:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.5	ng/L		11/20/23 06:48	12/01/23 17:39	1
8:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.6	ng/L		11/20/23 06:48	12/01/23 17:39	1
9CI-PF3ONS	8.0	U	8.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
DONA	8.0	U	8.0	1.5	ng/L		11/20/23 06:48	12/01/23 17:39	1
HFPODA	8.0	U	8.0	2.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
NEtFOSAA	2.0	U	2.0	0.70	ng/L		11/20/23 06:48	12/01/23 17:39	1
N-ethylperfluoro-1-octanesulfonamide	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
NMeFOSA	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
NMeFOSAA	4.0	U	4.0	1.2	ng/L		11/20/23 06:48	12/01/23 17:39	1
Nonafluoro-3,6-dioxahexanoic acid	4.0	U	4.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoro-3-methoxypropanoic acid	4.0	U	4.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoro-4-methoxybutanoic acid	4.0	U	4.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorobutanesulfonic acid	2.0	U	2.0	0.30	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorobutanoic acid	8.0	U	8.0	2.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorodecanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorodecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.90	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorododecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoroheptanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoroheptanoic acid	2.0	U	2.0	0.52	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorohexanesulfonic acid	2.0	U	2.0	0.57	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorohexanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorononanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorononanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorooctanesulfonamide	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorooctanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorooctanoic acid	2.0	U	2.0	0.64	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoropentanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoropentanoic acid	4.0	U	4.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorotetradecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorotridecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoroundecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
PES	4.0	U	4.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFTeDA	72.4		10 - 130	11/20/23 06:48	12/01/23 17:39	1
13C3 HFPO-DA	70.3		25 - 160	11/20/23 06:48	12/01/23 17:39	1
13C3 PFBS	80.2		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C4 PFBA	73.1		10 - 130	11/20/23 06:48	12/01/23 17:39	1
13C4 PFHpA	76.5		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C5 PFPeA	71.0		35 - 150	11/20/23 06:48	12/01/23 17:39	1
13C8 PFOA	76.5		60 - 140	11/20/23 06:48	12/01/23 17:39	1
13C8 PFOS	80.6		45 - 140	11/20/23 06:48	12/01/23 17:39	1
13C3 PFHxS	82.1		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C5 PFHxA	72.6		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C6 PFDA	76.6		50 - 140	11/20/23 06:48	12/01/23 17:39	1
13C7 PFUnA	81.7		30 - 140	11/20/23 06:48	12/01/23 17:39	1
13C8 FOSA	78.4		30 - 130	11/20/23 06:48	12/01/23 17:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-445298/1-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 445298

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	77.2		10 - 150	11/20/23 06:48	12/01/23 17:39	1
13C9 PFNA	76.1		55 - 140	11/20/23 06:48	12/01/23 17:39	1
d3-NMeFOSAA	80.9		45 - 200	11/20/23 06:48	12/01/23 17:39	1
d3-NMePFOSA	62.2		15 - 130	11/20/23 06:48	12/01/23 17:39	1
d5-NEtFOSAA	73.4		10 - 200	11/20/23 06:48	12/01/23 17:39	1
d5-NEtPFOSA	59.7		10 - 130	11/20/23 06:48	12/01/23 17:39	1
d7-N-MeFOSE-M	73.5		10 - 150	11/20/23 06:48	12/01/23 17:39	1
d9-N-EtFOSE-M	70.1		10 - 150	11/20/23 06:48	12/01/23 17:39	1
M2-4:2 FTS	76.0		60 - 200	11/20/23 06:48	12/01/23 17:39	1
M2-6:2 FTS	71.8		60 - 200	11/20/23 06:48	12/01/23 17:39	1
M2-8:2 FTS	72.6		50 - 200	11/20/23 06:48	12/01/23 17:39	1

Lab Sample ID: LCS 410-445298/2-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	94.2	88.1		ng/L		94	46 - 156
1H,1H,2H,2H-perfluorohexanesul fonic acid (4:2)	93.9	99.6		ng/L		106	67 - 146
2- (N-ethylperfluoro-1-octanesulfon amido) ethanol	250	253		ng/L		101	69 - 137
2- (N-methylperfluoro-1-octanesulf onamido) ethanol	250	260		ng/L		104	71 - 136
3-Perfluoroheptylpropanoic acid	626	623		ng/L		100	50 - 138
3-Perfluoropentylpropanoic acid	626	699		ng/L		112	63 - 134
3-Perfluoropropyl propanoic acid	125	155		ng/L		124	62 - 129
6:2 Fluorotelomer sulfonic acid	95.2	87.8		ng/L		92	61 - 151
8:2 Fluorotelomer sulfonic acid	96.2	99.7		ng/L		104	63 - 152
9Cl-PF3ONS	93.2	90.4		ng/L		97	56 - 156
DONA	94.2	105		ng/L		112	68 - 146
HFPODA	100	101		ng/L		101	63 - 144
NEtFOSAA	25.0	27.5		ng/L		110	59 - 146
N-ethylperfluoro-1-octanesulfon amide	25.0	25.1		ng/L		100	65 - 139
NMeFOSA	25.0	25.7		ng/L		102	63 - 145
NMeFOSAA	25.0	27.4		ng/L		109	58 - 144
Nonafluoro-3,6-dioxaheptanoic acid	50.1	59.5		ng/L		119	48 - 161
Perfluoro-3-methoxypropanoic acid	50.1	58.1		ng/L		116	51 - 145
Perfluoro-4-methoxybutanoic acid	50.1	55.9		ng/L		112	55 - 148
Perfluorobutanesulfonic acid	22.2	21.4		ng/L		96	62 - 144
Perfluorobutanoic acid	100	109		ng/L		108	58 - 148
Perfluorodecanesulfonic acid	24.2	23.5		ng/L		97	51 - 147
Perfluorodecanoic acid	25.0	23.7		ng/L		95	52 - 147
Perfluorodecanesulfonic acid (PFDoS)	24.3	20.9		ng/L		86	36 - 145

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-445298/2-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid	25.0	26.8		ng/L		107	64 - 142
Perfluoroheptanesulfonic acid	23.9	24.0		ng/L		100	55 - 152
Perfluoroheptanoic acid	25.0	26.9		ng/L		108	54 - 154
Perfluorohexanesulfonic acid	22.9	22.2		ng/L		97	57 - 146
Perfluorohexanoic acid	25.0	26.5		ng/L		106	55 - 152
Perfluorononanesulfonic acid	24.1	23.9		ng/L		99	52 - 148
Perfluorononanoic acid	25.0	32.3		ng/L		129	59 - 149
Perfluorooctanesulfonamide	25.0	23.3		ng/L		93	61 - 148
Perfluorooctanesulfonic acid	23.2	23.4		ng/L		101	58 - 149
Perfluorooctanoic acid	25.0	33.9		ng/L		135	52 - 161
Perfluoropentanesulfonic acid	23.6	23.8		ng/L		101	59 - 151
Perfluoropentanoic acid	50.1	58.2		ng/L		116	54 - 152
Perfluorotetradecanoic acid	25.0	26.0		ng/L		104	47 - 161
Perfluorotridecanoic acid	25.0	26.5		ng/L		106	49 - 148
Perfluoroundecanoic acid	25.0	24.4		ng/L		98	48 - 159
PES	44.6	47.7		ng/L		107	56 - 151

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	76.3		10 - 130
13C3 HFPO-DA	73.4		25 - 160
13C3 PFBS	83.3		25 - 150
13C4 PFBA	76.5		10 - 130
13C4 PFHpA	75.2		40 - 150
13C5 PFPeA	66.5		40 - 150
13C8 PFOA	89.9		30 - 140
13C8 PFOS	83.3		20 - 140
13C3 PFHxS	79.3		25 - 150
13C5 PFHxA	69.8		40 - 150
13C6 PFDA	83.6		20 - 140
13C7 PFUnA	83.4		20 - 140
13C8 FOSA	83.6		10 - 130
13C2-PFDoDA	80.9		10 - 150
13C9 PFNA	87.3		30 - 140
d3-NMeFOSAA	80.2		10 - 200
d3-NMePFOSA	62.0		10 - 130
d5-NEtFOSAA	78.4		10 - 200
d5-NEtPFOSA	63.3		10 - 130
d7-N-MeFOSE-M	78.1		10 - 150
d9-N-EtFOSE-M	76.9		10 - 150
M2-4:2 FTS	80.3		25 - 200
M2-6:2 FTS	77.8		25 - 200
M2-8:2 FTS	73.5		25 - 200

Lab Sample ID: LLCS 410-445298/3-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	15.1	17.0		ng/L		113	36 - 158

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-445298/3-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	16.1		ng/L		107	52 - 158
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	40.8		ng/L		102	60 - 147
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	41.0		ng/L		103	56 - 151
3-Perfluoroheptylpropanoic acid	100	104		ng/L		104	36 - 149
3-Perfluoropentylpropanoic acid	100	111		ng/L		111	39 - 156
3-Perfluoropropyl propanoic acid	20.0	21.9		ng/L		110	32 - 161
6:2 Fluorotelomer sulfonic acid	15.2	18.5		ng/L		122	48 - 158
8:2 Fluorotelomer sulfonic acid	15.4	14.2		ng/L		93	46 - 165
9Cl-PF3ONS	14.9	16.6		ng/L		111	44 - 167
DONA	15.1	19.1		ng/L		127	61 - 148
HFPODA	16.0	17.1		ng/L		107	58 - 154
NEtFOSAA	4.00	4.07		ng/L		102	51 - 154
N-ethylperfluoro-1-octanesulfonamide	4.00	3.87		ng/L		97	49 - 156
NMeFOSA	4.00	3.84		ng/L		96	54 - 155
NMeFOSAA	4.00	4.13		ng/L		103	32 - 160
Nonafluoro-3,6-dioxaheptanoic acid	8.00	8.28		ng/L		104	47 - 160
Perfluoro-3-methoxypropanoic acid	8.00	8.04		ng/L		101	48 - 150
Perfluoro-4-methoxybutanoic acid	8.00	7.31		ng/L		91	49 - 154
Perfluorobutanesulfonic acid	3.55	3.50		ng/L		99	63 - 145
Perfluorobutanoic acid	16.0	15.3		ng/L		96	44 - 157
Perfluorodecanesulfonic acid	3.86	3.54		ng/L		92	50 - 144
Perfluorodecanoic acid	4.00	3.55		ng/L		89	43 - 158
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.17		ng/L		82	30 - 138
Perfluorododecanoic acid	4.00	4.14		ng/L		103	60 - 141
Perfluoroheptanesulfonic acid	3.81	3.65		ng/L		96	51 - 150
Perfluoroheptanoic acid	4.00	4.34		ng/L		108	56 - 150
Perfluorohexanesulfonic acid	3.66	3.82		ng/L		105	44 - 158
Perfluorohexanoic acid	4.00	4.12		ng/L		103	62 - 149
Perfluorononanesulfonic acid	3.85	3.56		ng/L		93	46 - 151
Perfluorononanoic acid	4.00	4.29		ng/L		107	53 - 157
Perfluorooctanesulfonamide	4.00	3.62		ng/L		90	47 - 163
Perfluorooctanesulfonic acid	3.71	3.70		ng/L		100	43 - 162
Perfluorooctanoic acid	4.00	4.72		ng/L		118	57 - 161
Perfluoropentanesulfonic acid	3.76	3.84		ng/L		102	58 - 144
Perfluoropentanoic acid	8.00	8.49		ng/L		106	57 - 148
Perfluorotetradecanoic acid	4.00	4.08		ng/L		102	52 - 156
Perfluorotridecanoic acid	4.00	3.87		ng/L		97	52 - 140
Perfluoroundecanoic acid	4.00	3.99		ng/L		100	50 - 155
PES	7.12	7.80		ng/L		110	56 - 144

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	73.6		10 - 130
13C3 HFPO-DA	74.5		25 - 160
13C3 PFBS	77.2		25 - 150
13C4 PFBA	73.2		10 - 130
13C4 PFHpA	77.4		40 - 150
13C5 PFPeA	76.5		40 - 150
13C8 PFOA	86.2		30 - 140
13C8 PFOS	78.2		20 - 140
13C3 PFHxS	75.3		25 - 150
13C5 PFHxA	74.5		40 - 150
13C6 PFDA	82.3		20 - 140
13C7 PFUnA	82.0		20 - 140
13C8 FOSA	73.6		10 - 130
13C2-PFDoDA	75.8		10 - 150
13C9 PFNA	83.3		30 - 140
d3-NMeFOSAA	74.4		10 - 200
d3-NMePFOSA	57.4		10 - 130
d5-NEtFOSAA	75.1		10 - 200
d5-NEtPFOSA	58.1		10 - 130
d7-N-MeFOSE-M	72.3		10 - 150
d9-N-EtFOSE-M	70.2		10 - 150
M2-4:2 FTS	76.4		25 - 200
M2-6:2 FTS	70.8		25 - 200
M2-8:2 FTS	75.7		25 - 200

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

LCMS

Prep Batch: 439192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-1	SS-79-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-1 - DL	SS-79-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-2 - DL	SS-79-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-2	SS-79-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-3	SS-80-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-3 - DL	SS-80-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-4	SS-80-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-5	SS-81-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-5 - DL	SS-81-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-6 - DL	SS-81-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-6	SS-81-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-7 - DL	SS-82-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-7	SS-82-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-8	SS-82-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-8 - DL	SS-82-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-9	SS-83-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-9 - DL	SS-83-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-10 - DL	SS-83-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-10	SS-83-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-11 - DL	SS-84-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-11	SS-84-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-12	SS-84-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-13 - DL	SS-73-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-13	SS-73-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-14 - DL	SS-73-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-14	SS-73-2-12-102423	Total/NA	Solid	1633 Shake	
410-148678-15 - DL	SS-74-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-15	SS-74-0-2-102423	Total/NA	Solid	1633 Shake	
MB 410-439192/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-439192/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-439192/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
410-148678-15 MS	SS-74-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-15 MSD	SS-74-0-2-102423	Total/NA	Solid	1633 Shake	
410-148678-14 DU	SS-73-2-12-102423	Total/NA	Solid	1633 Shake	

Analysis Batch: 444874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-1	SS-79-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-2	SS-79-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-3	SS-80-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-4	SS-80-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-5	SS-81-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-6	SS-81-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-7	SS-82-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-8	SS-82-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-9	SS-83-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-10	SS-83-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-11	SS-84-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-12	SS-84-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-13	SS-73-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-14	SS-73-2-12-102423	Total/NA	Solid	Draft-4 1633	439192

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

LCMS (Continued)

Analysis Batch: 444874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-15	SS-74-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
MB 410-439192/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	439192
LLCS 410-439192/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	439192
410-148678-15 MS	SS-74-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-15 MSD	SS-74-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-14 DU	SS-73-2-12-102423	Total/NA	Solid	Draft-4 1633	439192

Prep Batch: 445298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-16	EB-SS-102423	Total/NA	Water	1633	
MB 410-445298/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-445298/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-445298/3-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 446373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-1 - DL	SS-79-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-2 - DL	SS-79-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-3 - DL	SS-80-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-5 - DL	SS-81-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-6 - DL	SS-81-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-7 - DL	SS-82-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-8 - DL	SS-82-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-9 - DL	SS-83-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-10 - DL	SS-83-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-11 - DL	SS-84-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-13 - DL	SS-73-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-14 - DL	SS-73-2-12-102423	Total/NA	Solid	Draft-4 1633	439192
410-148678-15 - DL	SS-74-0-2-102423	Total/NA	Solid	Draft-4 1633	439192
LCS 410-439192/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	439192

Analysis Batch: 448926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-16	EB-SS-102423	Total/NA	Water	Draft-4 1633	445298
MB 410-445298/1-A	Method Blank	Total/NA	Water	Draft-4 1633	445298
LCS 410-445298/2-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	445298
LLCS 410-445298/3-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	445298

General Chemistry

Analysis Batch: 437213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-1	SS-79-0-2-102423	Total/NA	Solid	Moisture	
410-148678-2	SS-79-2-12-102423	Total/NA	Solid	Moisture	
410-148678-3	SS-80-0-2-102423	Total/NA	Solid	Moisture	
410-148678-4	SS-80-2-12-102423	Total/NA	Solid	Moisture	
410-148678-5	SS-81-0-2-102423	Total/NA	Solid	Moisture	
410-148678-6	SS-81-2-12-102423	Total/NA	Solid	Moisture	
410-148678-7	SS-82-0-2-102423	Total/NA	Solid	Moisture	
410-148678-8	SS-82-2-12-102423	Total/NA	Solid	Moisture	
410-148678-9	SS-83-0-2-102423	Total/NA	Solid	Moisture	

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

General Chemistry (Continued)

Analysis Batch: 437213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148678-10	SS-83-2-12-102423	Total/NA	Solid	Moisture	
410-148678-11	SS-84-0-2-102423	Total/NA	Solid	Moisture	
410-148678-12	SS-84-2-12-102423	Total/NA	Solid	Moisture	
410-148678-13	SS-73-0-2-102423	Total/NA	Solid	Moisture	
410-148678-14	SS-73-2-12-102423	Total/NA	Solid	Moisture	
410-148678-15	SS-74-0-2-102423	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-79-0-2-102423

Lab Sample ID: 410-148678-1

Date Collected: 10/24/23 10:45

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-79-0-2-102423

Lab Sample ID: 410-148678-1

Date Collected: 10/24/23 10:45

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 04:34
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 15:24

Client Sample ID: SS-79-2-12-102423

Lab Sample ID: 410-148678-2

Date Collected: 10/24/23 10:50

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-79-2-12-102423

Lab Sample ID: 410-148678-2

Date Collected: 10/24/23 10:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 69.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 04:47
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 15:37

Client Sample ID: SS-80-0-2-102423

Lab Sample ID: 410-148678-3

Date Collected: 10/24/23 10:55

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-80-0-2-102423

Lab Sample ID: 410-148678-3

Date Collected: 10/24/23 10:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 05:00
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 15:50

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-80-2-12-102423

Lab Sample ID: 410-148678-4

Date Collected: 10/24/23 11:00

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-80-2-12-102423

Lab Sample ID: 410-148678-4

Date Collected: 10/24/23 11:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 05:13

Client Sample ID: SS-81-0-2-102423

Lab Sample ID: 410-148678-5

Date Collected: 10/24/23 11:05

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-81-0-2-102423

Lab Sample ID: 410-148678-5

Date Collected: 10/24/23 11:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 05:26
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 16:16

Client Sample ID: SS-81-2-12-102423

Lab Sample ID: 410-148678-6

Date Collected: 10/24/23 11:10

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-81-2-12-102423

Lab Sample ID: 410-148678-6

Date Collected: 10/24/23 11:10

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 05:39
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 16:29

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-82-0-2-102423

Lab Sample ID: 410-148678-7

Date Collected: 10/24/23 12:00

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-82-0-2-102423

Lab Sample ID: 410-148678-7

Date Collected: 10/24/23 12:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 06:18
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/23/23 09:43

Client Sample ID: SS-82-2-12-102423

Lab Sample ID: 410-148678-8

Date Collected: 10/24/23 12:05

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-82-2-12-102423

Lab Sample ID: 410-148678-8

Date Collected: 10/24/23 12:05

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 06:31
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/23/23 09:56

Client Sample ID: SS-83-0-2-102423

Lab Sample ID: 410-148678-9

Date Collected: 10/24/23 12:10

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-83-0-2-102423

Lab Sample ID: 410-148678-9

Date Collected: 10/24/23 12:10

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 06:44
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/23/23 10:09

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-83-2-12-102423

Lab Sample ID: 410-148678-10

Date Collected: 10/24/23 12:15

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-83-2-12-102423

Lab Sample ID: 410-148678-10

Date Collected: 10/24/23 12:15

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 06:57
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/23/23 10:22

Client Sample ID: SS-84-0-2-102423

Lab Sample ID: 410-148678-11

Date Collected: 10/24/23 13:25

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-84-0-2-102423

Lab Sample ID: 410-148678-11

Date Collected: 10/24/23 13:25

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 71.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 07:11
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 16:42

Client Sample ID: SS-84-2-12-102423

Lab Sample ID: 410-148678-12

Date Collected: 10/24/23 13:30

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-84-2-12-102423

Lab Sample ID: 410-148678-12

Date Collected: 10/24/23 13:30

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 07:24

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: SS-73-0-2-102423

Lab Sample ID: 410-148678-13

Date Collected: 10/24/23 14:50

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-73-0-2-102423

Lab Sample ID: 410-148678-13

Date Collected: 10/24/23 14:50

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 07:37
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/23/23 10:35

Client Sample ID: SS-73-2-12-102423

Lab Sample ID: 410-148678-14

Date Collected: 10/24/23 14:55

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-73-2-12-102423

Lab Sample ID: 410-148678-14

Date Collected: 10/24/23 14:55

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 07:50
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/23/23 10:48

Client Sample ID: SS-74-0-2-102423

Lab Sample ID: 410-148678-15

Date Collected: 10/24/23 15:00

Matrix: Solid

Date Received: 10/26/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437213	UVJN	ELLE	10/30/23 09:55

Client Sample ID: SS-74-0-2-102423

Lab Sample ID: 410-148678-15

Date Collected: 10/24/23 15:00

Matrix: Solid

Date Received: 10/26/23 10:10

Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633		1	444874	UCD3	ELLE	11/18/23 08:42
Total/NA	Prep	1633 Shake	DL		439192	S7AC	ELLE	11/03/23 07:56
Total/NA	Analysis	Draft-4 1633	DL	10	446373	VK3G	ELLE	11/22/23 16:56

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Client Sample ID: EB-SS-102423
Date Collected: 10/24/23 18:30
Date Received: 10/26/23 10:10

Lab Sample ID: 410-148678-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			445298	RC3V	ELLE	11/20/23 06:48
Total/NA	Analysis	Draft-4 1633		1	448926	JVK6	ELLE	12/01/23 20:54

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633	Water	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633	Water	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633	Water	NEtFOSAA
Draft-4 1633	1633	Water	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633	Water	NMeFOSA
Draft-4 1633	1633	Water	Perfluorodecanesulfonic acid
Draft-4 1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633	Water	Perfluoroheptanoic acid
Draft-4 1633	1633	Water	Perfluorononanesulfonic acid
Draft-4 1633	1633	Water	Perfluorooctanesulfonamide
Draft-4 1633	1633	Water	PES
Draft-4 1633	1633 Shake	Solid	11Cl-PF3OUdS
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633 Shake	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633 Shake	Solid	6:2 Fluorotelomer sulfonic acid
Draft-4 1633	1633 Shake	Solid	9Cl-PF3ONS
Draft-4 1633	1633 Shake	Solid	DONA
Draft-4 1633	1633 Shake	Solid	HFPODA
Draft-4 1633	1633 Shake	Solid	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633 Shake	Solid	NMeFOSA
Draft-4 1633	1633 Shake	Solid	Nonafluoro-3,6-dioxahexanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorononanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorooctanesulfonamide
Draft-4 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633 Shake	Solid	PES
Moisture		Solid	Percent Moisture

Method Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Method	Method Description	Protocol	Laboratory
Draft-4 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-148678-1	SS-79-0-2-102423	Solid	10/24/23 10:45	10/26/23 10:10
410-148678-2	SS-79-2-12-102423	Solid	10/24/23 10:50	10/26/23 10:10
410-148678-3	SS-80-0-2-102423	Solid	10/24/23 10:55	10/26/23 10:10
410-148678-4	SS-80-2-12-102423	Solid	10/24/23 11:00	10/26/23 10:10
410-148678-5	SS-81-0-2-102423	Solid	10/24/23 11:05	10/26/23 10:10
410-148678-6	SS-81-2-12-102423	Solid	10/24/23 11:10	10/26/23 10:10
410-148678-7	SS-82-0-2-102423	Solid	10/24/23 12:00	10/26/23 10:10
410-148678-8	SS-82-2-12-102423	Solid	10/24/23 12:05	10/26/23 10:10
410-148678-9	SS-83-0-2-102423	Solid	10/24/23 12:10	10/26/23 10:10
410-148678-10	SS-83-2-12-102423	Solid	10/24/23 12:15	10/26/23 10:10
410-148678-11	SS-84-0-2-102423	Solid	10/24/23 13:25	10/26/23 10:10
410-148678-12	SS-84-2-12-102423	Solid	10/24/23 13:30	10/26/23 10:10
410-148678-13	SS-73-0-2-102423	Solid	10/24/23 14:50	10/26/23 10:10
410-148678-14	SS-73-2-12-102423	Solid	10/24/23 14:55	10/26/23 10:10
410-148678-15	SS-74-0-2-102423	Solid	10/24/23 15:00	10/26/23 10:10
410-148678-16	EB-SS-102423	Water	10/24/23 18:30	10/26/23 10:10

Section A Laboratory Info Lab Name: Eurofins Lab Name: Eurofins Attention: Natalie Luciano Address: Phone: 717-556-7258 Email: Natalie.Luciano@et.eurofinsus.com Report To: Natalie Luciano Copy To Ellen.Skiff@parsons.com; Laura.Drachenberg@parsons.com Maryanne.Kosciewicz@parsons.com Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD										Section B Client Information Company: Parsons Attention: Cynthia Oppenheimer Address: 100 Pringle Ave, Ste 525, Walnut Creek, CA, 94596 Phone: 925-324-4895 Email: Cynthia.Oppenheimer@parsons.com Purchase Order No: TAT - 10 Day Section D Additional Information										COC TC 3-107423-02 Project Name: Taconic - Data Gap Project Site: Petersburg, NY Project Number: 452026.209 Preservative codes (for water only): 0 1 0 2 3 1 0 0 3 Bottle Configuration for Soils 1-Terracore for VOCs, 1-4 oz for PFAS, 1-8 oz for other analyses									
Location ID Start Depth (ft) End Depth (ft) Field Sample ID MUST BE UNIQUE Sample Date Sample Time Sample Matrix Sample Type # of Cont. MS/MSD Composite (Y/N) #Bottles 2 1 Comments																													
1 SS-79 0 2 SS-79-0-2-102423 10/24/23 1045 SO N										X																			
2 SS-79 2 12 SS-79-2-12-102423 10/24/23 1050 SO N										X																			
3 SS-80 0 2 SS-80-0-2-102423 10/24/23 1055 SO N										X																			
4 SS-80 2 12 SS-80-2-12-102423 10/24/23 1100 SO N										X																			
5 SS-81 0 2 SS-81-0-2-102423 10/24/23 1105 SO N										X																			
6 SS-81 2 12 SS-81-2-12-102423 10/24/23 1110 SO N										X																			
7 SS-82 0 2 SS-82-0-2-102423 10/24/23 1200 SO N										X																			
8 SS-82 2 12 SS-82-2-12-102423 10/24/23 1205 SO N										X																			
9 SS-83 0 2 SS-83-0-2-102423 10/24/23 1210 SO N										X																			
10 SS-83 2 12 SS-83-2-12-102423 10/24/23 1215 SO N										X																			
Special Instructions:																													
Albany #224																													
Raw 2.5 - COR 2.5																													
Samplers Name: Alison Low										Company: Parsons										Relinquished By: Allen Ca									
Date/Time: 10/25/23										Date/Time: 10/25/23 10:50										Cooler Temp.: Yes No									
Shipment Method:										Shipment Tracking No:										Accepted By: Tim Kuhl									
Date/Time:										Date/Time: 10-25-23 1050										Cooler Temp.: Yes No									
Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):										Custody Seals Intact: Yes No										Samples Intact: Yes No									

Relinquished By: Tim Knollmeyer 10-25-23 1700

Mr 10/26/23 1811

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information				Section B Client Information				COC #:		TC3-102423-02											
Lab Name: Eurofins				Company: Parsons				Project Name:		Taconic - Data Gap											
Lab Name: Eurofins				Attention: Cynthia Oppenheimer				Project Site:		Petersburg, NY											
Attention: Natalie Luciano				Address: 100 Pringle Ave, Ste 525, Walnut Creek, CA, 94596				Project Number:		452026.209											
Address:				Phone: 925-324-4895				Project Number:		452026.209											
Phone: 717-556-7258				Email: Cynthia.Oppenhimer@parsons.com				Project Number:		452026.209											
Email: Natalie.Luciano@et.eurofinsus.com				Purchase Order No:				Project Number:		452026.209											
Report To: Natalie Luciano				TAT - 10 Day				Project Number:		452026.209											
Copy To Ellen.Skiff@parsons.com; Laura.Drachenberg@parsons.com Maryanne.Kosciewicz@parsons.com				Section D Additional Information				Project Number:		452026.209											
Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD				Section D Additional Information				Project Number:		452026.209											
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MSD	Composite (Y/N)	PFAS Modified 1633	TAL Metals	Preservative codes (for water only):	Bottle Configuration for Soils	Comments						
1 SS-84	0	2	SS-84-0-2-102423	10/24/23	1325	SO	N	2													
2 SS-84	2	12	SS-84-2-12-102423	10/24/23	1330	SO	N	2													
3 SS-73	0	2	SS-73-0-2-102423	10/24/23	1450	SO	N	2													
4 SS-73	2	12	SS-73-2-12-102423	10/24/23	1455	SO	N	2													
5 SS-74	0	2	SS-74-0-2-102423	10/24/23	1500	SO	N	2													
6 Field QC	-	-	EB-SS-102423	10/24/23	1830	SO	KEB	2													
7																					
8																					
9																					
10																					

Special Instructions:

Albany
#224

Raw 2.5 - cor 2.5

Samplers Name: Allen	Company: Parsons	Relinquished By: Tim Kroll	Company: Parsons	Cooler Temp.: 10/24/23 1056	Custody Seals Intact: Yes ☒ No ☐
Date/Time: 10/24/23	Date/Time: 10/24/23	Date/Time: 10/24/23	Date/Time: 10/24/23	Rec'd on Ice: Yes ☒ No ☐	Samples Intact: Yes ☒ No ☐
Shipment Method:	Shipment Tracking No:	Accepted By: Tim Kroll	Company: 10-25-23 1050	Cooler Temp.: 10/25/23 1050	Custody Seals Intact: Yes ☒ No ☐
Date/Time:	Date/Time:	Date/Time:	Date/Time:	Rec'd on Ice: Yes ☒ No ☐	Samples Intact: Yes ☒ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

Relinquished by: Tim Kroll 10-25-23 1700

MP 10/26/23 1010

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-148678-1

Login Number: 148678

List Number: 1

Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/4/2023 10:18:49 PM

JOB DESCRIPTION

Taconic - Data Gap

JOB NUMBER

410-148925-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/4/2023 10:18:49 PM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

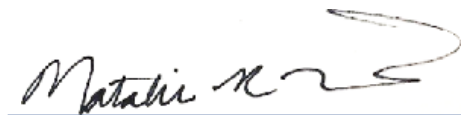


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Job ID: 410-148925-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-148925-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/27/2023 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.7°C

Receipt Exceptions

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): SS-76-0-2-102523 (410-148925-3).

The laboratory received 6 total containers, while the COC lists 8 total containers.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-SS-102523 (410-148925-6). The container is a water quality matrix, while the COC lists a solid matrix.

PFAS

Method 1633: The recovery for a target analyte(s) Perfluorononanoic acid in the laboratory control spike samples associated with the following samples: SS-75-0-2-102523 (410-148925-1), SS-75-2-12-102523 (410-148925-2), SS-76-0-2-102523 (410-148925-3), SS-FD-102523 (410-148925-4) and SS-76-2-12-102523 (410-148925-5) is outside the QC acceptance limits. Client was contacted and data is reported.

Method 1633: The recovery for the labeled isotope(s) M2-4:2 FTS, M2-6:2 FTS and M2-8:2 FTS is outside the QC acceptance limits in the matrix spike and matrix spike duplicate samples: SS-76-0-2-102523 (410-148925-3[MS]) and SS-76-0-2-102523 (410-148925-3[MSD]), indicating a matrix effect.

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 above or in the Definitions/ Glossary page.

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-75-0-2-102523

Lab Sample ID: 410-148925-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.18	J	0.80	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	2.7		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	1.6		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.21		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.12	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	1.5	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.86		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	3.4		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.17	J	0.40	0.099	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.72		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	1.2		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	2.9		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-75-2-12-102523

Lab Sample ID: 410-148925-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.39	J	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	2.5		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	1.2		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.33		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.35		0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	2.2	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.88		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	7.5		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.61		0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.44		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.72		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	2.2		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-76-0-2-102523

Lab Sample ID: 410-148925-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.37	J	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanesulfonic acid	0.11	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.66		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.36		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.17	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.12	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.38	F1 *+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	1.9		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.61	F1	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.19	J	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.14	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.22		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.56		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-FD-102523

Lab Sample ID: 410-148925-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.30	J	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.60		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.30		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-FD-102523 (Continued)

Lab Sample ID: 410-148925-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	0.14	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.11	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.39	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	1.7		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.60		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.16	J	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotetradecanoic acid	0.13	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.18	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.49		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-76-2-12-102523

Lab Sample ID: 410-148925-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.19	J	0.80	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.15	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.057	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.20		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorohexanoic acid	0.17	J	0.20	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.28	*+ cn	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.66		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.5		0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoropentanoic acid	0.27	J	0.40	0.10	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.088	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: EB-SS-102523

Lab Sample ID: 410-148925-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	1.5	J	1.9	0.47	ng/L	1		Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.62	J	1.9	0.47	ng/L	1		Draft-4 1633	Total/NA
Perfluorooctanoic acid	1.3	J	1.9	0.61	ng/L	1		Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-75-0-2-102523

Lab Sample ID: 410-148925-1

Date Collected: 10/25/23 13:30

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 67.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
2- (N-ethylperfluoro-1-octanesulfonami do) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	0.99	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	0.99	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
3-Perfluoropropyl propanoic acid	0.99	U	0.99	0.25	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
4,8-dioxa-3H-perfluorononanoic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
8:2 Fluorotelomer sulfonic acid	0.99	U	0.99	0.35	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
NETFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoro(2-propoxypropanoic) acid	0.80	U	0.80	0.051	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.099	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.099	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorobutanoic acid	0.18	J	0.80	0.099	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorodecanoic acid	2.7		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorododecanoic acid	1.6		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoroheptanoic acid	0.21		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorohexanoic acid	0.12	J	0.20	0.059	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorononanoic acid	1.5	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorooctanesulfonic acid	0.86		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorooctanoic acid	3.4		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoropentanoic acid	0.17	J	0.40	0.099	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorotetradecanoic acid	0.72		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluorotridecanoic acid	1.2		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Perfluoroundecanoic acid	2.9		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
PES	0.40	U	0.40	0.099	ng/g	✱	11/03/23 07:06	11/30/23 17:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	63.8		20 - 150				11/03/23 07:06	11/30/23 17:37	1
13C2-PFDoDA	73.6		20 - 150				11/03/23 07:06	11/30/23 17:37	1
13C3 HFPO-DA	74.4		20 - 150				11/03/23 07:06	11/30/23 17:37	1
13C3 PFBS	89.8		20 - 150				11/03/23 07:06	11/30/23 17:37	1
13C3 PFHxS	80.9		20 - 150				11/03/23 07:06	11/30/23 17:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-75-0-2-102523

Lab Sample ID: 410-148925-1

Date Collected: 10/25/23 13:30

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 67.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79.6		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C4 PFHpA	83.3		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C5 PFHxA	83.4		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C5 PFPeA	83.3		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C6 PFDA	79.8		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C7 PFUnA	75.4		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C8 FOSA	81.4		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C8 PFOA	76.0		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C8 PFOS	84.4		20 - 150	11/03/23 07:06	11/30/23 17:37	1
13C9 PFNA	74.7		20 - 150	11/03/23 07:06	11/30/23 17:37	1
d3-NMeFOSAA	92.7		20 - 150	11/03/23 07:06	11/30/23 17:37	1
d3-NMePFOSA	71.0		20 - 150	11/03/23 07:06	11/30/23 17:37	1
d5-NEtFOSAA	91.1		20 - 150	11/03/23 07:06	11/30/23 17:37	1
d5-NEtPFOSA	70.1		20 - 150	11/03/23 07:06	11/30/23 17:37	1
d7-N-MeFOSE-M	76.6		20 - 150	11/03/23 07:06	11/30/23 17:37	1
d9-N-EtFOSE-M	70.5		20 - 150	11/03/23 07:06	11/30/23 17:37	1
M2-8:2 FTS	148		20 - 150	11/03/23 07:06	11/30/23 17:37	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	2.0	ng/g	☼	11/03/23 07:06	12/01/23 17:42	10
6:2 Fluorotelomer sulfonic acid	9.9	U	9.9	3.5	ng/g	☼	11/03/23 07:06	12/01/23 17:42	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	86.7		20 - 150				11/03/23 07:06	12/01/23 17:42	10
M2-6:2 FTS	80.9		20 - 150				11/03/23 07:06	12/01/23 17:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	32.7		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-75-2-12-102523

Lab Sample ID: 410-148925-2

Date Collected: 10/25/23 13:35

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 71.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan	0.80	U	0.80	0.20	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
e-1-sulfonic acid									
2-	2.0	U	2.0	0.50	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
(N-ethylperfluoro-1-octanesulfonamid									
o) ethanol									
2-	2.0	U	2.0	0.50	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
(N-methylperfluoro-1-octanesulfonami									
do) ethanol									
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
4,8-dioxa-3H-perfluorononanoic acid	0.80	U	0.80	0.20	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	☼	11/03/23 07:06	11/30/23 17:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-75-2-12-102523

Lab Sample ID: 410-148925-2

Date Collected: 10/25/23 13:35

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 71.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Nonafluoro-3,6-dioxahexanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoro(2-propoxypropanoic) acid	0.80	U	0.80	0.051	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorobutanoic acid	0.39	J	0.80	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorodecanoic acid	2.5		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorododecanoic acid	1.2		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoroheptanoic acid	0.33		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorohexanoic acid	0.35		0.20	0.059	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorononanoic acid	2.2	*** cn	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorooctanesulfonic acid	0.88		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorooctanoic acid	7.5		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoropentanoic acid	0.61		0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorotetradecanoic acid	0.44		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluorotridecanoic acid	0.72		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
Perfluoroundecanoic acid	2.2		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1
PES	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 17:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	64.7		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C2-PFDoDA	70.1		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C3 HFPO-DA	82.3		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C3 PFBS	88.8		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C3 PFHxS	89.0		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C4 PFBA	87.0		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C4 PFHpA	89.3		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C5 PFHxA	87.2		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C5 PFPeA	87.7		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C6 PFDA	78.2		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C7 PFUnA	77.0		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C8 FOSA	84.5		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C8 PFOA	88.4		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C8 PFOS	87.6		20 - 150	11/03/23 07:06	11/30/23 17:50	1
13C9 PFNA	82.5		20 - 150	11/03/23 07:06	11/30/23 17:50	1
d3-NMeFOSAA	96.2		20 - 150	11/03/23 07:06	11/30/23 17:50	1
d3-NMePFOSA	68.2		20 - 150	11/03/23 07:06	11/30/23 17:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-75-2-12-102523

Lab Sample ID: 410-148925-2

Date Collected: 10/25/23 13:35

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 71.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	88.6		20 - 150	11/03/23 07:06	11/30/23 17:50	1
d5-NEtPFOSA	65.5		20 - 150	11/03/23 07:06	11/30/23 17:50	1
d7-N-MeFOSE-M	79.9		20 - 150	11/03/23 07:06	11/30/23 17:50	1
d9-N-EtFOSE-M	68.4		20 - 150	11/03/23 07:06	11/30/23 17:50	1
M2-6:2 FTS	148		20 - 150	11/03/23 07:06	11/30/23 17:50	1
M2-8:2 FTS	129		20 - 150	11/03/23 07:06	11/30/23 17:50	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	2.0	ng/g	☼	11/03/23 07:06	12/01/23 17:55	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	79.1		20 - 150				11/03/23 07:06	12/01/23 17:55	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	28.5		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-76-0-2-102523

Lab Sample ID: 410-148925-3

Date Collected: 10/25/23 14:10

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 69.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	2.0	U	2.0	0.50	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	2.0	U	2.0	0.50	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
4,8-dioxo-3H-perfluorononanoic acid	0.80	U	0.80	0.20	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluoro(2-propoxypropanoic) acid	0.80	U	0.80	0.051	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluorobutanoic acid	0.37	J	0.80	0.10	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluorodecanesulfonic acid	0.11	J	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluorodecanoic acid	0.66		0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	☆	11/03/23 07:06	11/30/23 18:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-76-0-2-102523

Lab Sample ID: 410-148925-3

Date Collected: 10/25/23 14:10

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 69.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid	0.36		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluoroheptanoic acid	0.17	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorohexanoic acid	0.12	J	0.20	0.059	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorononanoic acid	0.38	F1 *+ cn	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorooctanesulfonic acid	1.9		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorooctanoic acid	0.61	F1	0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluoropentanoic acid	0.19	J	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorotetradecanoic acid	0.14	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluorotridecanoic acid	0.22		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
Perfluoroundecanoic acid	0.56		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1
PES	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	70.6		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C2-PFDoDA	77.0		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C3 HFPO-DA	93.0		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C3 PFBS	92.2		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C3 PFHxS	82.8		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C4 PFBA	86.6		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C4 PFHpA	87.7		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C5 PFHxA	92.1		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C5 PFPeA	88.4		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C6 PFDA	84.8		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C7 PFUnA	78.2		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C8 FOSA	85.7		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C8 PFOA	86.0		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C8 PFOS	93.1		20 - 150	11/03/23 07:06	11/30/23 18:03	1
13C9 PFNA	89.8		20 - 150	11/03/23 07:06	11/30/23 18:03	1
d3-NMeFOSAA	100		20 - 150	11/03/23 07:06	11/30/23 18:03	1
d3-NMePFOSA	74.8		20 - 150	11/03/23 07:06	11/30/23 18:03	1
d5-NEtFOSAA	92.4		20 - 150	11/03/23 07:06	11/30/23 18:03	1
d5-NEtPFOSA	71.1		20 - 150	11/03/23 07:06	11/30/23 18:03	1
d7-N-MeFOSE-M	78.3		20 - 150	11/03/23 07:06	11/30/23 18:03	1
d9-N-EtFOSE-M	73.1		20 - 150	11/03/23 07:06	11/30/23 18:03	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	2.0	ng/g	☼	11/03/23 07:06	12/01/23 18:08	10
6:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	11/03/23 07:06	12/01/23 18:08	10
8:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	11/03/23 07:06	12/01/23 18:08	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	89.1		20 - 150				11/03/23 07:06	12/01/23 18:08	10
M2-6:2 FTS	90.5		20 - 150				11/03/23 07:06	12/01/23 18:08	10
M2-8:2 FTS	70.7		20 - 150				11/03/23 07:06	12/01/23 18:08	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-76-0-2-102523

Lab Sample ID: 410-148925-3

Date Collected: 10/25/23 14:10

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 69.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	30.1		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-FD-102523

Lab Sample ID: 410-148925-4

Date Collected: 10/25/23 14:15

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 72.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
4,8-dioxa-3H-perfluorononanoic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoro(2-propoxypropanoic) acid	0.80	U	0.80	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorobutanoic acid	0.30	J	0.80	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorodecanoic acid	0.60		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorodecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorodecanoic acid	0.30		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoroheptanoic acid	0.14	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorohexanoic acid	0.11	J	0.20	0.059	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorononanoic acid	0.39	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorooctanesulfonic acid	1.7		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorooctanoic acid	0.60		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoropentanoic acid	0.16	J	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorotetradecanoic acid	0.13	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluorotridecanoic acid	0.18	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1
Perfluoroundecanoic acid	0.49		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-FD-102523

Lab Sample ID: 410-148925-4

Date Collected: 10/25/23 14:15

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 72.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PES	0.40	U	0.40	0.10	ng/g	☼	11/03/23 07:06	11/30/23 18:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	79.6		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C2-PFDoDA	92.6		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C3 HFPO-DA	81.9		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C3 PFBS	97.8		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C3 PFHxS	86.1		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C4 PFBA	92.5		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C4 PFHpA	98.1		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C5 PFHxA	93.5		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C5 PFPeA	93.0		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C6 PFDA	92.9		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C7 PFUnA	92.6		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C8 FOSA	81.8		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C8 PFOA	86.4		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C8 PFOS	99.2		20 - 150				11/03/23 07:06	11/30/23 18:42	1
13C9 PFNA	85.8		20 - 150				11/03/23 07:06	11/30/23 18:42	1
d3-NMeFOSAA	111		20 - 150				11/03/23 07:06	11/30/23 18:42	1
d3-NMePFOSA	77.4		20 - 150				11/03/23 07:06	11/30/23 18:42	1
d5-NEtFOSAA	98.3		20 - 150				11/03/23 07:06	11/30/23 18:42	1
d5-NEtPFOSA	75.6		20 - 150				11/03/23 07:06	11/30/23 18:42	1
d7-N-MeFOSE-M	83.0		20 - 150				11/03/23 07:06	11/30/23 18:42	1
d9-N-EtFOSE-M	72.2		20 - 150				11/03/23 07:06	11/30/23 18:42	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	2.0	ng/g	☼	11/03/23 07:06	12/01/23 18:21	10
6:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	11/03/23 07:06	12/01/23 18:21	10
8:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	11/03/23 07:06	12/01/23 18:21	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	92.2		20 - 150				11/03/23 07:06	12/01/23 18:21	10
M2-6:2 FTS	87.9		20 - 150				11/03/23 07:06	12/01/23 18:21	10
M2-8:2 FTS	79.7		20 - 150				11/03/23 07:06	12/01/23 18:21	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	27.7		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-76-2-12-102523

Lab Sample ID: 410-148925-5

Date Collected: 10/25/23 14:20

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 81.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	☼	11/03/23 07:06	11/30/23 18:55	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	2.0	U	2.0	0.50	ng/g	☼	11/03/23 07:06	11/30/23 18:55	1

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-76-2-12-102523

Lab Sample ID: 410-148925-5

Date Collected: 10/25/23 14:20

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 81.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
4,8-dioxa-3H-perfluorononanoic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	0.80	0.20	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
NMeFOSA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoro(2-propoxypropanoic) acid	0.80	U	0.80	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorobutanoic acid	0.19	J	0.80	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorodecanoic acid	0.15	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorododecanoic acid	0.057	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoroheptanoic acid	0.20		0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorohexanoic acid	0.17	J	0.20	0.059	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorononanoic acid	0.28	*+ cn	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorooctanesulfonic acid	0.66		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorooctanoic acid	1.5		0.20	0.051	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoropentanoic acid	0.27	J	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
Perfluoroundecanoic acid	0.088	J	0.20	0.050	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1
PES	0.40	U	0.40	0.10	ng/g	✱	11/03/23 07:06	11/30/23 18:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	72.9		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C2-PFDoDA	78.6		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C3 HFPO-DA	73.2		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C3 PFBS	89.4		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C3 PFHxS	86.3		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C4 PFBA	87.8		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C4 PFHpA	82.4		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C5 PFHxA	88.7		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C5 PFPeA	88.0		20 - 150	11/03/23 07:06	11/30/23 18:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-76-2-12-102523

Lab Sample ID: 410-148925-5

Date Collected: 10/25/23 14:20

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 81.3

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	85.1		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C7 PFUnA	83.4		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C8 FOSA	95.1		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C8 PFOA	86.5		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C8 PFOS	103		20 - 150	11/03/23 07:06	11/30/23 18:55	1
13C9 PFNA	85.4		20 - 150	11/03/23 07:06	11/30/23 18:55	1
d3-NMeFOSAA	103		20 - 150	11/03/23 07:06	11/30/23 18:55	1
d3-NMePFOSA	74.3		20 - 150	11/03/23 07:06	11/30/23 18:55	1
d5-NEtFOSAA	102		20 - 150	11/03/23 07:06	11/30/23 18:55	1
d5-NEtPFOSA	66.8		20 - 150	11/03/23 07:06	11/30/23 18:55	1
d7-N-MeFOSE-M	82.3		20 - 150	11/03/23 07:06	11/30/23 18:55	1
d9-N-EtFOSE-M	71.5		20 - 150	11/03/23 07:06	11/30/23 18:55	1
M2-8:2 FTS	147		20 - 150	11/03/23 07:06	11/30/23 18:55	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	2.0	ng/g	☼	11/03/23 07:06	12/01/23 18:34	10
6:2 Fluorotelomer sulfonic acid	10	U	10	3.5	ng/g	☼	11/03/23 07:06	12/01/23 18:34	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	80.6		20 - 150				11/03/23 07:06	12/01/23 18:34	10
M2-6:2 FTS	79.6		20 - 150				11/03/23 07:06	12/01/23 18:34	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.7		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: EB-SS-102523

Lab Sample ID: 410-148925-6

Date Collected: 10/25/23 17:15

Matrix: Water

Date Received: 10/27/23 09:54

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	7.6	U	7.6	1.9	ng/L		11/20/23 06:48	12/01/23 21:33	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.6	U	7.6	1.6	ng/L		11/20/23 06:48	12/01/23 21:33	1
2-(N-ethylperfluoro-1-octanesulfonamid o) ethanol	19	U	19	4.7	ng/L		11/20/23 06:48	12/01/23 21:33	1
2-(N-methylperfluoro-1-octanesulfonami do) ethanol	19	U	19	4.7	ng/L		11/20/23 06:48	12/01/23 21:33	1
3-Perfluoroheptylpropanoic acid	47	U	47	9.5	ng/L		11/20/23 06:48	12/01/23 21:33	1
3-Perfluoropentylpropanoic acid	47	U	47	9.5	ng/L		11/20/23 06:48	12/01/23 21:33	1
3-Perfluoropropyl propanoic acid	9.5	U	9.5	1.4	ng/L		11/20/23 06:48	12/01/23 21:33	1
4,8-dioxa-3H-perfluorononanoic acid	7.6	U	7.6	1.4	ng/L		11/20/23 06:48	12/01/23 21:33	1
6:2 Fluorotelomer sulfonic acid	7.6	U	7.6	2.4	ng/L		11/20/23 06:48	12/01/23 21:33	1
8:2 Fluorotelomer sulfonic acid	7.6	U	7.6	2.5	ng/L		11/20/23 06:48	12/01/23 21:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	7.6	U	7.6	0.95	ng/L		11/20/23 06:48	12/01/23 21:33	1
NEtFOSAA	1.9	U	1.9	0.66	ng/L		11/20/23 06:48	12/01/23 21:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: EB-SS-102523

Lab Sample ID: 410-148925-6

Date Collected: 10/25/23 17:15

Matrix: Water

Date Received: 10/27/23 09:54

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluoro-1-octanesulfonamide	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
NMeFOSA	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
NMeFOSAA	3.8	U	3.8	1.1	ng/L		11/20/23 06:48	12/01/23 21:33	1
Nonafluoro-3,6-dioxaheptanoic acid	3.8	U	3.8	0.95	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoro(2-propoxypropanoic) acid	7.6	U	7.6	1.9	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoro-3-methoxypropanoic acid	3.8	U	3.8	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoro-4-methoxybutanoic acid	3.8	U	3.8	0.95	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorobutanesulfonic acid	1.9	U	1.9	0.28	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorobutanoic acid	7.6	U	7.6	1.9	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorodecanesulfonic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorodecanoic acid	1.5	J	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorododecanesulfonic acid (PFDoS)	1.9	U	1.9	0.85	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorododecanoic acid	0.62	J	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoroheptanesulfonic acid	1.9	U	1.9	0.38	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoroheptanoic acid	1.9	U	1.9	0.49	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorohexanesulfonic acid	1.9	U	1.9	0.54	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorohexanoic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorononanesulfonic acid	1.9	U	1.9	0.38	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorononanoic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorooctanesulfonamide	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorooctanesulfonic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorooctanoic acid	1.3	J	1.9	0.61	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoropentanesulfonic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoropentanoic acid	3.8	U	3.8	0.95	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorotetradecanoic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluorotridecanoic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
Perfluoroundecanoic acid	1.9	U	1.9	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1
PES	3.8	U	3.8	0.47	ng/L		11/20/23 06:48	12/01/23 21:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	82.0		60 - 200	11/20/23 06:48	12/01/23 21:33	1
d9-N-EtFOSE-M	75.9		10 - 150	11/20/23 06:48	12/01/23 21:33	1
d3-NMePFOSA	68.2		15 - 130	11/20/23 06:48	12/01/23 21:33	1
d7-N-MeFOSE-M	76.4		10 - 150	11/20/23 06:48	12/01/23 21:33	1
13C3 HFPO-DA	70.2		25 - 160	11/20/23 06:48	12/01/23 21:33	1
d5-NEtPFOSA	69.2		10 - 130	11/20/23 06:48	12/01/23 21:33	1
M2-6:2 FTS	75.3		60 - 200	11/20/23 06:48	12/01/23 21:33	1
M2-8:2 FTS	82.2		50 - 200	11/20/23 06:48	12/01/23 21:33	1
13C2 PFTeDA	79.9		10 - 130	11/20/23 06:48	12/01/23 21:33	1
13C3 PFBS	79.2		55 - 150	11/20/23 06:48	12/01/23 21:33	1
13C4 PFBA	72.1		10 - 130	11/20/23 06:48	12/01/23 21:33	1
13C4 PFHpA	73.1		55 - 150	11/20/23 06:48	12/01/23 21:33	1
13C5 PFPeA	71.8		35 - 150	11/20/23 06:48	12/01/23 21:33	1
13C8 PFOA	86.7		60 - 140	11/20/23 06:48	12/01/23 21:33	1
13C8 PFOS	86.2		45 - 140	11/20/23 06:48	12/01/23 21:33	1
d3-NMeFOSAA	80.2		45 - 200	11/20/23 06:48	12/01/23 21:33	1
d5-NEtFOSAA	72.4		10 - 200	11/20/23 06:48	12/01/23 21:33	1
13C3 PFHxS	84.3		55 - 150	11/20/23 06:48	12/01/23 21:33	1
13C5 PFHxA	77.4		55 - 150	11/20/23 06:48	12/01/23 21:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: EB-SS-102523

Lab Sample ID: 410-148925-6

Date Collected: 10/25/23 17:15

Matrix: Water

Date Received: 10/27/23 09:54

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6 PFDA	85.9		50 - 140	11/20/23 06:48	12/01/23 21:33	1
13C7 PFUnA	91.3		30 - 140	11/20/23 06:48	12/01/23 21:33	1
13C8 FOSA	79.9		30 - 130	11/20/23 06:48	12/01/23 21:33	1
13C2-PFDoDA	87.3		10 - 150	11/20/23 06:48	12/01/23 21:33	1
13C9 PFNA	82.7		55 - 140	11/20/23 06:48	12/01/23 21:33	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	PFDODA (20-150)	HFPODA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	PFBA (20-150)	C4PFHA (20-150)	13C5PHA (20-150)
410-148925-1	SS-75-0-2-102523	63.8	73.6	74.4	89.8	80.9	79.6	83.3	83.4
410-148925-3	SS-76-0-2-102523	70.6	77.0	93.0	92.2	82.8	86.6	87.7	92.1
410-148925-4	SS-FD-102523	79.6	92.6	81.9	97.8	86.1	92.5	98.1	93.5
410-148925-5	SS-76-2-12-102523	72.9	78.6	73.2	89.4	86.3	87.8	82.4	88.7
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFOS (20-150)
410-148925-1	SS-75-0-2-102523	83.3	79.8	75.4	81.4	76.0	84.4	74.7	92.7
410-148925-3	SS-76-0-2-102523	88.4	84.8	78.2	85.7	86.0	93.1	89.8	100
410-148925-4	SS-FD-102523	93.0	92.9	92.6	81.8	86.4	99.2	85.8	111
410-148925-5	SS-76-2-12-102523	88.0	85.1	83.4	95.1	86.5	103	85.4	103
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d3NMFSA (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M262FTS (20-150)	M282FTS (20-150)	
410-148925-1	SS-75-0-2-102523	71.0	91.1	70.1	76.6	70.5		148	
410-148925-3	SS-76-0-2-102523	74.8	92.4	71.1	78.3	73.1			
410-148925-4	SS-FD-102523	77.4	98.3	75.6	83.0	72.2			
410-148925-5	SS-76-2-12-102523	74.3	102	66.8	82.3	71.5		147	
Surrogate Legend									
PFTDA = 13C2 PFTeDA									
PFDODA = 13C2-PFDODA									
HFPODA = 13C3 HFPO-DA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
PFBA = 13C4 PFBA									
C4PFHA = 13C4 PFHpA									
13C5PHA = 13C5 PFHxA									
PFPeA = 13C5 PFPeA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFOSA = 13C8 FOSA									
C8PFOA = 13C8 PFOA									
C8PFOS = 13C8 PFOS									
C9PFNA = 13C9 PFNA									
d3NMFOS = d3-NMeFOSAA									
d3NMFSA = d3-NMePFOSA									
d5NEFOS = d5-NEtFOSAA									
d5NPFSA = d5-NEtPFOSA									
NMFM = d7-N-MeFOSE-M									
NEFM = d9-N-EtFOSE-M									
M282FTS = M2-8:2 FTS									

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)
410-148925-1 - DL	SS-75-0-2-102523	86.7	80.9

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-148925-1

Project/Site: Taconic - Data Gap

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)						
410-148925-5 - DL	SS-76-2-12-102523	80.6	79.6						
Surrogate Legend									
M242FTS = M2-4:2 FTS									
M262FTS = M2-6:2 FTS									

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	PFDODA (20-150)	HFPODA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	PFBA (20-150)	C4PFHA (20-150)	13C5PHA (20-150)
410-148925-2	SS-75-2-12-102523	64.7	70.1	82.3	88.8	89.0	87.0	89.3	87.2
410-148925-3 MS	SS-76-0-2-102523	73.1	78.0	77.0	97.3	89.4	87.3	80.4	86.2
410-148925-3 MSD	SS-76-0-2-102523	75.0	88.3	76.1	103	93.8	91.1	94.6	91.7
LCS 410-439147/2-A	Lab Control Sample	72.0	78.8	99.1	112	107	103	98.3	107
LLCS 410-439147/3-A	Lab Control Sample	80.7	80.6	93.2	102	93.3	94.0	98.4	100
MB 410-439147/1-A	Method Blank	60.5	66.0	76.8	81.8	74.9	79.5	80.0	81.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFOS (20-150)
410-148925-2	SS-75-2-12-102523	87.7	78.2	77.0	84.5	88.4	87.6	82.5	96.2
410-148925-3 MS	SS-76-0-2-102523	81.7	83.5	80.0	84.2	81.0	97.0	82.9	101
410-148925-3 MSD	SS-76-0-2-102523	90.0	85.4	88.0	90.3	91.2	103	91.9	105
LCS 410-439147/2-A	Lab Control Sample	105	96.7	86.5	114	101	111	96.2	116
LLCS 410-439147/3-A	Lab Control Sample	98.9	92.3	84.6	103	99.2	96.1	94.4	100
MB 410-439147/1-A	Method Blank	82.8	76.4	69.3	85.7	78.6	81.8	76.6	83.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d3NMFSA (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-148925-2	SS-75-2-12-102523	68.2	88.6	65.5	79.9	68.4		148	129
410-148925-3 MS	SS-76-0-2-102523	71.9	91.8	67.6	78.0	71.0	193 *5+ cn	173 *5+ cn	192 *5+ cn
410-148925-3 MSD	SS-76-0-2-102523	77.2	92.3	72.7	85.7	75.2	181 *5+ cn	173 *5+ cn	175 *5+ cn
LCS 410-439147/2-A	Lab Control Sample	78.3	106	66.9	94.1	81.7	116	121	107
LLCS 410-439147/3-A	Lab Control Sample	68.5	93.1	61.1	90.6	79.3	92.1	113	90.4
MB 410-439147/1-A	Method Blank	58.3	79.8	49.5	74.1	63.4	87.0	88.7	76.5

Surrogate Legend

PFTDA = 13C2 PFTeDA

PFDODA = 13C2-PFDODA

HFPODA = 13C3 HFPO-DA

C3PFBS = 13C3 PFBS

C3PFHS = 13C3 PFHxS

PFBA = 13C4 PFBA

C4PFHA = 13C4 PFHpA

13C5PHA = 13C5 PFHxA

PFPeA = 13C5 PFPeA

C6PFDA = 13C6 PFDA

13C7PUA = 13C7 PFUnA

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-148925-1

Project/Site: Taconic - Data Gap

PFOSA = 13C8 FOSA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
d5NEFOS = d5-NEtFOSAA
d5NPFSA = d5-NEtPFOSA
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (20-150)							
410-148925-2 - DL	SS-75-2-12-102523	79.1							

Surrogate Legend

M242FTS = M2-4:2 FTS

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)					
410-148925-3 - DL	SS-76-0-2-102523	89.1	90.5	70.7					
410-148925-4 - DL	SS-FD-102523	92.2	87.9	79.7					

Surrogate Legend

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (60-200)	NEFM (10-150)	d3NMFSA (15-130)	NMFm (10-150)	HFPODA (25-160)	d5NPFSA (10-130)	M262FTS (60-200)	M282FTS (50-200)
410-148925-6	EB-SS-102523	82.0	75.9	68.2	76.4	70.2	69.2	75.3	82.2
410-148925-6 DU	EB-SS-102523	78.9	76.8	68.5	78.3	79.9	72.7	81.4	82.6
MB 410-445298/1-A	Method Blank	76.0	70.1	62.2	73.5	70.3	59.7	71.8	72.6

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (55-150)	PFBA (10-130)	C4PFHA (55-150)	PFPeA (35-150)	C8PFOA (60-140)	C8PFOS (45-140)	d3NMFOS (45-200)
410-148925-6	EB-SS-102523	79.9	79.2	72.1	73.1	71.8	86.7	86.2	80.2
410-148925-6 DU	EB-SS-102523	73.9	81.5	76.0	85.8	78.4	89.4	85.4	85.1
MB 410-445298/1-A	Method Blank	72.4	80.2	73.1	76.5	71.0	76.5	80.6	80.9

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (10-200)	C3PFHS (55-150)	13C5PHA (55-150)	C6PFDA (50-140)	13C7PUA (30-140)	PFOSA (30-130)	PFDODA (10-150)	C9PFNA (55-140)
410-148925-6	EB-SS-102523	72.4	84.3	77.4	85.9	91.3	79.9	87.3	82.7

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		d5NEFOS (10-200)	C3PFHS (55-150)	13C5PHA (55-150)	C6PFDA (50-140)	13C7PUA (30-140)	PFOSA (30-130)	PFDODA (10-150)	C9PFNA (55-140)
410-148925-6 DU	EB-SS-102523	76.8	83.5	79.8	74.9	82.8	81.8	83.1	85.3
MB 410-445298/1-A	Method Blank	73.4	82.1	72.6	76.6	81.7	78.4	77.2	76.1
Surrogate Legend									
M242FTS = M2-4:2 FTS									
NEFM = d9-N-EtFOSE-M									
d3NMFSa = d3-NMePFOSA									
NMFM = d7-N-MeFOSE-M									
HFPODA = 13C3 HFPO-DA									
d5NPFSA = d5-NEtPFOSA									
M262FTS = M2-6:2 FTS									
M282FTS = M2-8:2 FTS									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
PFBA = 13C4 PFBA									
C4PFHA = 13C4 PFHpA									
PFPeA = 13C5 PFPeA									
C8PFOA = 13C8 PFOA									
C8PFOS = 13C8 PFOS									
d3NMFOs = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									
C3PFHS = 13C3 PFHxS									
13C5PHA = 13C5 PFHxA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFOSA = 13C8 FOSA									
PFDODA = 13C2-PFDODA									
C9PFNA = 13C9 PFNA									

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		NEFM (10-150)	NMFM (10-150)	HFPODA (25-160)	d5NPFSA (10-130)	PFTDA (10-130)	C3PFBS (25-150)	PFBA (10-130)	C4PFHA (40-150)
LCS 410-445298/2-A	Lab Control Sample	76.9	78.1	73.4	63.3	76.3	83.3	76.5	75.2
LLCS 410-445298/3-A	Lab Control Sample	70.2	72.3	74.5	58.1	73.6	77.2	73.2	77.4
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA (40-150)	C8PFOA (30-140)	C8PFOS (20-140)	d5NEFOS (10-200)	C3PFHS (25-150)	13C5PHA (40-150)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 410-445298/2-A	Lab Control Sample	66.5	89.9	83.3	78.4	79.3	69.8	83.6	83.4
LLCS 410-445298/3-A	Lab Control Sample	76.5	86.2	78.2	75.1	75.3	74.5	82.3	82.0
Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA (10-130)	PFDODA (10-150)	C9PFNA (30-140)	d3NMFOs (10-200)	d3NMFSa (10-130)	M242FTS (25-200)	M262FTS (25-200)	M282FTS (25-200)
LCS 410-445298/2-A	Lab Control Sample	83.6	80.9	87.3	80.2	62.0	80.3	77.8	73.5
LLCS 410-445298/3-A	Lab Control Sample	73.6	75.8	83.3	74.4	57.4	76.4	70.8	75.7
Surrogate Legend									
NEFM = d9-N-EtFOSE-M									
NMFM = d7-N-MeFOSE-M									

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc

Job ID: 410-148925-1

Project/Site: Taconic - Data Gap

HFPODA = 13C3 HFPO-DA
d5NPFSA = d5-NEtPFOSA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d5NEFOS = d5-NEtFOSAA
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-439147/1-A

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g		11/03/23 07:06	11/30/23 16:58	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g		11/03/23 07:06	11/30/23 16:58	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	2.0	U	2.0	0.50	ng/g		11/03/23 07:06	11/30/23 16:58	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	2.0	U	2.0	0.50	ng/g		11/03/23 07:06	11/30/23 16:58	1
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g		11/03/23 07:06	11/30/23 16:58	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g		11/03/23 07:06	11/30/23 16:58	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g		11/03/23 07:06	11/30/23 16:58	1
4,8-dioxo-3H-perfluorononanoic acid	0.80	U	0.80	0.20	ng/g		11/03/23 07:06	11/30/23 16:58	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		11/03/23 07:06	11/30/23 16:58	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		11/03/23 07:06	11/30/23 16:58	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	0.80	U	0.80	0.20	ng/g		11/03/23 07:06	11/30/23 16:58	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
NMeFOSA	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoro(2-propoxypropanoic) acid	0.80	U	0.80	0.051	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorodecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoroheptanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorohexanoic acid	0.20	U	0.20	0.059	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorononanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorooctanesulfonic acid	0.20	U	0.20	0.051	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorooctanoic acid	0.20	U	0.20	0.051	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoropentanoic acid	0.40	U	0.40	0.10	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g		11/03/23 07:06	11/30/23 16:58	1
PES	0.40	U	0.40	0.10	ng/g		11/03/23 07:06	11/30/23 16:58	1

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	76.8		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C2 PFTeDA	60.5		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C3 PFBS	81.8		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C4 PFBA	79.5		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C4 PFHpA	80.0		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C5 PFPeA	82.8		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C8 PFOA	78.6		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C8 PFOS	81.8		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C3 PFHxS	74.9		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C5 PFHxA	81.1		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C6 PFDA	76.4		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C7 PFUnA	69.3		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C8 FOSA	85.7		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C2-PFDoDA	66.0		20 - 150	11/03/23 07:06	11/30/23 16:58	1
13C9 PFNA	76.6		20 - 150	11/03/23 07:06	11/30/23 16:58	1
d3-NMeFOSAA	83.8		20 - 150	11/03/23 07:06	11/30/23 16:58	1
d3-NMePFOSA	58.3		20 - 150	11/03/23 07:06	11/30/23 16:58	1
d5-NEtFOSAA	79.8		20 - 150	11/03/23 07:06	11/30/23 16:58	1
d5-NEtPFOSA	49.5		20 - 150	11/03/23 07:06	11/30/23 16:58	1
d7-N-MeFOSE-M	74.1		20 - 150	11/03/23 07:06	11/30/23 16:58	1
d9-N-EtFOSE-M	63.4		20 - 150	11/03/23 07:06	11/30/23 16:58	1
M2-4:2 FTS	87.0		20 - 150	11/03/23 07:06	11/30/23 16:58	1
M2-6:2 FTS	88.7		20 - 150	11/03/23 07:06	11/30/23 16:58	1
M2-8:2 FTS	76.5		20 - 150	11/03/23 07:06	11/30/23 16:58	1

Lab Sample ID: LCS 410-439147/2-A

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	9.42	7.65		ng/g		81	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.39	9.86		ng/g		105	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	27.2		ng/g		109	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	28.0		ng/g		112	40 - 150
3-Perfluoroheptylpropanoic acid	62.6	58.8		ng/g		94	40 - 150
3-Perfluoropentylpropanoic acid	62.6	66.6		ng/g		106	40 - 150
3-Perfluoropropyl propanoic acid	12.5	15.3		ng/g		122	40 - 150
4,8-dioxa-3H-perfluorononanoic acid	9.42	10.8		ng/g		115	40 - 150
6:2 Fluorotelomer sulfonic acid	9.52	9.97		ng/g		105	40 - 150
8:2 Fluorotelomer sulfonic acid	9.62	9.35		ng/g		97	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9.32	8.62		ng/g		93	40 - 150
NEtFOSAA	2.50	2.73		ng/g		109	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	2.61		ng/g		104	40 - 150
NMeFOSA	2.50	2.50		ng/g		100	40 - 150
NMeFOSAA	2.50	2.66		ng/g		106	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-439147/2-A

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid	5.01	5.94		ng/g		119	40 - 150
Perfluoro(2-propoxypropanoic) acid	10.0	9.95		ng/g		100	40 - 150
Perfluoro-3-methoxypropanoic acid	5.01	5.68		ng/g		113	40 - 150
Perfluoro-4-methoxybutanoic acid	5.01	5.33		ng/g		106	40 - 150
Perfluorobutanesulfonic acid	2.22	2.39		ng/g		108	40 - 150
Perfluorobutanoic acid	10.0	10.5		ng/g		105	40 - 150
Perfluorodecanesulfonic acid	2.42	2.11		ng/g		87	40 - 150
Perfluorodecanoic acid	2.50	2.80		ng/g		112	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.86		ng/g		77	40 - 150
Perfluorododecanoic acid	2.50	3.03		ng/g		121	40 - 150
Perfluoroheptanesulfonic acid	2.39	2.47		ng/g		104	40 - 150
Perfluoroheptanoic acid	2.50	3.09		ng/g		124	40 - 150
Perfluorohexanesulfonic acid	2.29	2.41		ng/g		105	40 - 150
Perfluorohexanoic acid	2.50	2.66		ng/g		106	40 - 150
Perfluorononanesulfonic acid	2.41	2.18		ng/g		90	40 - 150
Perfluorononanoic acid	2.50	4.08	*+	ng/g		163	40 - 150
Perfluorooctanesulfonamide	2.50	2.49		ng/g		100	40 - 150
Perfluorooctanesulfonic acid	2.32	2.37		ng/g		102	40 - 150
Perfluorooctanoic acid	2.50	3.49		ng/g		139	40 - 150
Perfluoropentanesulfonic acid	2.36	2.86		ng/g		121	40 - 150
Perfluoropentanoic acid	5.01	5.71		ng/g		114	40 - 150
Perfluorotetradecanoic acid	2.50	2.86		ng/g		114	40 - 150
Perfluorotridecanoic acid	2.50	2.73		ng/g		109	40 - 150
Perfluoroundecanoic acid	2.50	2.85		ng/g		114	40 - 150
PES	4.46	4.81		ng/g		108	40 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	99.1		20 - 150
13C2 PFTeDA	72.0		20 - 150
13C3 PFBS	112		20 - 150
13C4 PFBA	103		20 - 150
13C4 PFHpA	98.3		20 - 150
13C5 PFPeA	105		20 - 150
13C8 PFOA	101		20 - 150
13C8 PFOS	111		20 - 150
13C3 PFHxS	107		20 - 150
13C5 PFHxA	107		20 - 150
13C6 PFDA	96.7		20 - 150
13C7 PFUnA	86.5		20 - 150
13C8 FOSA	114		20 - 150
13C2-PFDoDA	78.8		20 - 150
13C9 PFNA	96.2		20 - 150
d3-NMeFOSAA	116		20 - 150
d3-NMePFOSA	78.3		20 - 150
d5-NEtFOSAA	106		20 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-439147/2-A

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439147

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtPFOSA	66.9		20 - 150
d7-N-MeFOSE-M	94.1		20 - 150
d9-N-EtFOSE-M	81.7		20 - 150
M2-4:2 FTS	116		20 - 150
M2-6:2 FTS	121		20 - 150
M2-8:2 FTS	107		20 - 150

Lab Sample ID: LLCS 410-439147/3-A

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.51	1.32		ng/g		88	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.50	1.69		ng/g		113	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	4.28		ng/g		107	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	4.09		ng/g		102	40 - 150
3-Perfluoroheptylpropanoic acid	10.0	8.85		ng/g		88	40 - 150
3-Perfluoropentylpropanoic acid	10.0	9.60		ng/g		96	40 - 150
3-Perfluoropropyl propanoic acid	2.00	2.25		ng/g		112	40 - 150
4,8-dioxa-3H-perfluorononanoic acid	1.51	1.59		ng/g		105	40 - 150
6:2 Fluorotelomer sulfonic acid	1.52	1.42		ng/g		93	40 - 150
8:2 Fluorotelomer sulfonic acid	1.54	1.54		ng/g		100	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.49	1.41		ng/g		95	40 - 150
NEtFOSAA	0.400	0.412		ng/g		103	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.403		ng/g		101	40 - 150
NMeFOSA	0.400	0.411		ng/g		103	40 - 150
NMeFOSAA	0.400	0.403		ng/g		101	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid	0.800	0.739		ng/g		92	40 - 150
Perfluoro(2-propoxypropanoic) acid	1.60	1.43		ng/g		89	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.851		ng/g		106	40 - 150
Perfluoro-4-methoxybutanoic acid	0.800	0.791		ng/g		99	40 - 150
Perfluorobutanesulfonic acid	0.355	0.358		ng/g		101	40 - 150
Perfluorobutanoic acid	1.60	1.44		ng/g		90	40 - 150
Perfluorodecanesulfonic acid	0.386	0.362		ng/g		94	40 - 150
Perfluorodecanoic acid	0.400	0.414		ng/g		104	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.338		ng/g		87	40 - 150
Perfluorododecanoic acid	0.400	0.444		ng/g		111	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.377		ng/g		99	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-439147/3-A

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid	0.400	0.442		ng/g		111	40 - 150
Perfluorohexanesulfonic acid	0.366	0.365		ng/g		100	40 - 150
Perfluorohexanoic acid	0.400	0.406		ng/g		102	40 - 150
Perfluorononanesulfonic acid	0.385	0.351		ng/g		91	40 - 150
Perfluorononanoic acid	0.400	0.551		ng/g		138	40 - 150
Perfluorooctanesulfonamide	0.400	0.374		ng/g		94	40 - 150
Perfluorooctanesulfonic acid	0.371	0.397		ng/g		107	40 - 150
Perfluorooctanoic acid	0.400	0.526		ng/g		132	40 - 150
Perfluoropentanesulfonic acid	0.376	0.437		ng/g		116	40 - 150
Perfluoropentanoic acid	0.800	0.871		ng/g		109	40 - 150
Perfluorotetradecanoic acid	0.400	0.407		ng/g		102	40 - 150
Perfluorotridecanoic acid	0.400	0.416		ng/g		104	40 - 150
Perfluoroundecanoic acid	0.400	0.417		ng/g		104	40 - 150
PES	0.712	0.740		ng/g		104	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C3 HFPO-DA	93.2		20 - 150
13C2 PFTeDA	80.7		20 - 150
13C3 PFBS	102		20 - 150
13C4 PFBA	94.0		20 - 150
13C4 PFHpA	98.4		20 - 150
13C5 PFPeA	98.9		20 - 150
13C8 PFOA	99.2		20 - 150
13C8 PFOS	96.1		20 - 150
13C3 PFHxS	93.3		20 - 150
13C5 PFHxA	100		20 - 150
13C6 PFDA	92.3		20 - 150
13C7 PFUnA	84.6		20 - 150
13C8 FOSA	103		20 - 150
13C2-PFDoDA	80.6		20 - 150
13C9 PFNA	94.4		20 - 150
d3-NMeFOSAA	100		20 - 150
d3-NMePFOSA	68.5		20 - 150
d5-NEtFOSAA	93.1		20 - 150
d5-NEtPFOSA	61.1		20 - 150
d7-N-MeFOSE-M	90.6		20 - 150
d9-N-EtFOSE-M	79.3		20 - 150
M2-4:2 FTS	92.1		20 - 150
M2-6:2 FTS	113		20 - 150
M2-8:2 FTS	90.4		20 - 150

Lab Sample ID: 410-148925-3 MS

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: SS-76-0-2-102523

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.80	U	9.37	9.14		ng/g	✱	98	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148925-3 MS

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: SS-76-0-2-102523

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	9.34	9.11		ng/g	✱	97	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	24.9	27.3		ng/g	✱	109	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	24.9	27.7		ng/g	✱	111	40 - 150
3-Perfluoroheptylpropanoic acid	5.0	U	62.2	60.2		ng/g	✱	97	40 - 150
3-Perfluoropentylpropanoic acid	5.0	U	62.2	66.4		ng/g	✱	107	40 - 150
3-Perfluoropropyl propanoic acid	1.0	U	12.4	15.1		ng/g	✱	121	40 - 150
4,8-dioxo-3H-perfluorononanoic acid	0.80	U	9.37	8.50	I	ng/g	✱	91	40 - 150
6:2 Fluorotelomer sulfonic acid	1.0	U	9.47	9.26		ng/g	✱	98	40 - 150
8:2 Fluorotelomer sulfonic acid	1.0	U	9.57	9.54		ng/g	✱	100	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	9.27	10.0		ng/g	✱	108	40 - 150
NEtFOSAA	0.20	U	2.49	2.96		ng/g	✱	119	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.20	U	2.49	2.60		ng/g	✱	104	40 - 150
NMeFOSA	0.20	U	2.49	2.58		ng/g	✱	104	40 - 150
NMeFOSAA	0.20	U	2.49	2.70		ng/g	✱	109	40 - 150
Nonafluoro-3,6-dioxahexanoic acid	0.40	U	4.98	4.92		ng/g	✱	99	40 - 150
Perfluoro(2-propoxypropanoic) acid	0.80	U	9.95	9.39		ng/g	✱	94	40 - 150
Perfluoro-3-methoxypropanoic acid	0.40	U	4.98	5.62		ng/g	✱	113	40 - 150
Perfluoro-4-methoxybutanoic acid	0.40	U	4.98	5.44		ng/g	✱	109	40 - 150
Perfluorobutanesulfonic acid	0.20	U	2.21	2.37		ng/g	✱	107	40 - 150
Perfluorobutanoic acid	0.37	J	9.97	10.7		ng/g	✱	104	40 - 150
Perfluorodecanesulfonic acid	0.11	J	2.40	2.34		ng/g	✱	93	40 - 150
Perfluorodecanoic acid	0.66		2.49	3.50		ng/g	✱	114	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	2.42	2.00		ng/g	✱	83	40 - 150
Perfluorododecanoic acid	0.36		2.49	3.33		ng/g	✱	120	40 - 150
Perfluoroheptanesulfonic acid	0.20	U	2.37	2.35		ng/g	✱	99	40 - 150
Perfluoroheptanoic acid	0.17	J	2.49	3.33		ng/g	✱	127	40 - 150
Perfluorohexanesulfonic acid	0.20	U	2.28	2.63		ng/g	✱	115	40 - 150
Perfluorohexanoic acid	0.12	J	2.49	2.85		ng/g	✱	110	40 - 150
Perfluorononanesulfonic acid	0.20	U	2.40	2.36		ng/g	✱	99	40 - 150
Perfluorononanoic acid	0.38	F1 *+ cn	2.49	4.39	F1	ng/g	✱	161	40 - 150
Perfluorooctanesulfonamide	0.20	U	2.49	2.42		ng/g	✱	97	40 - 150
Perfluorooctanesulfonic acid	1.9		2.31	4.21		ng/g	✱	101	40 - 150
Perfluorooctanoic acid	0.61	F1	2.49	4.82	F1	ng/g	✱	169	40 - 150
Perfluoropentanesulfonic acid	0.20	U	2.34	2.73		ng/g	✱	116	40 - 150
Perfluoropentanoic acid	0.19	J	4.98	6.08		ng/g	✱	118	40 - 150
Perfluorotetradecanoic acid	0.14	J	2.49	2.91		ng/g	✱	111	40 - 150
Perfluorotridecanoic acid	0.22		2.49	3.05		ng/g	✱	114	40 - 150
Perfluoroundecanoic acid	0.56		2.49	3.25		ng/g	✱	108	40 - 150
PES	0.40	U	4.43	4.71		ng/g	✱	106	40 - 150

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QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	73.1		20 - 150
13C2-PFDoDA	78.0		20 - 150
13C3 HFPO-DA	77.0		20 - 150
13C3 PFBS	97.3		20 - 150
13C3 PFHxS	89.4		20 - 150
13C4 PFBA	87.3		20 - 150
13C4 PFHpA	80.4		20 - 150
13C5 PFHxA	86.2		20 - 150
13C5 PFPeA	81.7		20 - 150
13C6 PFDA	83.5		20 - 150
13C7 PFUnA	80.0		20 - 150
13C8 FOSA	84.2		20 - 150
13C8 PFOA	81.0		20 - 150
13C8 PFOS	97.0		20 - 150
13C9 PFNA	82.9		20 - 150
d3-NMeFOSAA	101		20 - 150
d3-NMePFOSA	71.9		20 - 150
d5-NEtFOSAA	91.8		20 - 150
d5-NEtPFOSA	67.6		20 - 150
d7-N-MeFOSE-M	78.0		20 - 150
d9-N-EtFOSE-M	71.0		20 - 150
M2-4:2 FTS	193	*5+ cn	20 - 150
M2-6:2 FTS	173	*5+ cn	20 - 150
M2-8:2 FTS	192	*5+ cn	20 - 150

Lab Sample ID: 410-148925-3 MSD

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: SS-76-0-2-102523

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.80	U	9.41	10.2		ng/g	☼	109	40 - 150	11	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	9.38	8.83		ng/g	☼	94	40 - 150	3	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	25.0	27.7		ng/g	☼	111	40 - 150	2	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	25.0	26.7		ng/g	☼	107	40 - 150	4	30
3-Perfluoroheptylpropanoic acid	5.0	U	62.5	65.6		ng/g	☼	105	40 - 150	8	30
3-Perfluoropentylpropanoic acid	5.0	U	62.5	66.2		ng/g	☼	106	40 - 150	0	30
3-Perfluoropropyl propanoic acid	1.0	U	12.5	15.2		ng/g	☼	121	40 - 150	0	30
4,8-dioxo-3H-perfluorononanoic acid	0.80	U	9.41	9.82		ng/g	☼	104	40 - 150	14	30
6:2 Fluorotelomer sulfonic acid	1.0	U	9.51	9.82		ng/g	☼	103	40 - 150	6	30
8:2 Fluorotelomer sulfonic acid	1.0	U	9.61	8.71		ng/g	☼	91	40 - 150	9	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.80	U	9.31	11.1		ng/g	☼	119	40 - 150	10	30
NEtFOSAA	0.20	U	2.50	3.04		ng/g	☼	121	40 - 150	3	30
N-ethylperfluoro-1-octanesulfonamide	0.20	U	2.50	2.62		ng/g	☼	105	40 - 150	1	30
NMeFOSA	0.20	U	2.50	2.63		ng/g	☼	105	40 - 150	2	30
NMeFOSAA	0.20	U	2.50	2.65		ng/g	☼	106	40 - 150	2	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148925-3 MSD

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: SS-76-0-2-102523

Prep Type: Total/NA

Prep Batch: 439147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxahexanoic acid	0.40	U	5.00	5.56		ng/g	✱	111	40 - 150	12	30
Perfluoro(2-propoxypropanoic) acid	0.80	U	9.99	11.6		ng/g	✱	116	40 - 150	21	30
Perfluoro-3-methoxypropanoic acid	0.40	U	5.00	5.59		ng/g	✱	112	40 - 150	1	30
Perfluoro-4-methoxybutanoic acid	0.40	U	5.00	5.37		ng/g	✱	107	40 - 150	1	30
Perfluorobutanesulfonic acid	0.20	U	2.22	2.33		ng/g	✱	105	40 - 150	2	30
Perfluorobutanoic acid	0.37	J	10.0	10.6		ng/g	✱	102	40 - 150	1	30
Perfluorodecanesulfonic acid	0.11	J	2.41	2.33		ng/g	✱	92	40 - 150	0	30
Perfluorodecanoic acid	0.66		2.50	3.71		ng/g	✱	122	40 - 150	6	30
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	2.43	1.97		ng/g	✱	81	40 - 150	1	30
Perfluorododecanoic acid	0.36		2.50	3.22		ng/g	✱	114	40 - 150	4	30
Perfluoroheptanesulfonic acid	0.20	U	2.38	2.37		ng/g	✱	100	40 - 150	1	30
Perfluoroheptanoic acid	0.17	J	2.50	3.02		ng/g	✱	114	40 - 150	10	30
Perfluorohexanesulfonic acid	0.20	U	2.29	2.57		ng/g	✱	113	40 - 150	2	30
Perfluorohexanoic acid	0.12	J	2.50	2.98		ng/g	✱	114	40 - 150	4	30
Perfluorononanesulfonic acid	0.20	U	2.41	2.42		ng/g	✱	100	40 - 150	2	30
Perfluorononanoic acid	0.38	F1 *+ cn	2.50	4.19	F1	ng/g	✱	152	40 - 150	5	30
Perfluorooctanesulfonamide	0.20	U	2.50	2.44		ng/g	✱	97	40 - 150	1	30
Perfluorooctanesulfonic acid	1.9		2.32	4.01		ng/g	✱	91	40 - 150	5	30
Perfluorooctanoic acid	0.61	F1	2.50	4.37		ng/g	✱	150	40 - 150	10	30
Perfluoropentanesulfonic acid	0.20	U	2.35	2.69		ng/g	✱	114	40 - 150	1	30
Perfluoropentanoic acid	0.19	J	5.00	5.87		ng/g	✱	114	40 - 150	3	30
Perfluorotetradecanoic acid	0.14	J	2.50	2.95		ng/g	✱	112	40 - 150	1	30
Perfluorotridecanoic acid	0.22		2.50	3.08		ng/g	✱	114	40 - 150	1	30
Perfluoroundecanoic acid	0.56		2.50	3.30		ng/g	✱	110	40 - 150	2	30
PES	0.40	U	4.45	4.95		ng/g	✱	111	40 - 150	5	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFTeDA	75.0		20 - 150
13C2-PFDoDA	88.3		20 - 150
13C3 HFPO-DA	76.1		20 - 150
13C3 PFBS	103		20 - 150
13C3 PFHxS	93.8		20 - 150
13C4 PFBA	91.1		20 - 150
13C4 PFHpA	94.6		20 - 150
13C5 PFHxA	91.7		20 - 150
13C5 PFPeA	90.0		20 - 150
13C6 PFDA	85.4		20 - 150
13C7 PFUnA	88.0		20 - 150
13C8 FOSA	90.3		20 - 150
13C8 PFOA	91.2		20 - 150
13C8 PFOS	103		20 - 150
13C9 PFNA	91.9		20 - 150
d3-NMeFOSAA	105		20 - 150
d3-NMePFOSA	77.2		20 - 150
d5-NEtFOSAA	92.3		20 - 150

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QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148925-3 MSD

Matrix: Solid

Analysis Batch: 448683

Client Sample ID: SS-76-0-2-102523

Prep Type: Total/NA

Prep Batch: 439147

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
d5-NEtPFOSA	72.7		20 - 150
d7-N-MeFOSE-M	85.7		20 - 150
d9-N-EtFOSE-M	75.2		20 - 150
M2-4:2 FTS	181	*5+ cn	20 - 150
M2-6:2 FTS	173	*5+ cn	20 - 150
M2-8:2 FTS	175	*5+ cn	20 - 150

Lab Sample ID: MB 410-445298/1-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 445298

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	8.0	U	8.0	2.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	1.7	ng/L		11/20/23 06:48	12/01/23 17:39	1
2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol	20	U	20	5.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
2- (N-methylperfluoro-1-octanesulfonami do) ethanol	20	U	20	5.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
3-Perfluoroheptylpropanoic acid	50	U	50	10	ng/L		11/20/23 06:48	12/01/23 17:39	1
3-Perfluoropentylpropanoic acid	50	U	50	10	ng/L		11/20/23 06:48	12/01/23 17:39	1
3-Perfluoropropyl propanoic acid	10	U	10	1.5	ng/L		11/20/23 06:48	12/01/23 17:39	1
4,8-dioxa-3H-perfluorononanoic acid	8.0	U	8.0	1.5	ng/L		11/20/23 06:48	12/01/23 17:39	1
6:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.5	ng/L		11/20/23 06:48	12/01/23 17:39	1
8:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.6	ng/L		11/20/23 06:48	12/01/23 17:39	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	8.0	U	8.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
NEtFOSAA	2.0	U	2.0	0.70	ng/L		11/20/23 06:48	12/01/23 17:39	1
N-ethylperfluoro-1-octanesulfonamide	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
NMeFOSA	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
NMeFOSAA	4.0	U	4.0	1.2	ng/L		11/20/23 06:48	12/01/23 17:39	1
Nonafluoro-3,6-dioxaheptanoic acid	4.0	U	4.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoro(2-propoxypropanoic) acid	8.0	U	8.0	2.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoro-3-methoxypropanoic acid	4.0	U	4.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoro-4-methoxybutanoic acid	4.0	U	4.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorobutanesulfonic acid	2.0	U	2.0	0.30	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorobutanoic acid	8.0	U	8.0	2.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorodecanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorodecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.90	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorododecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoroheptanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoroheptanoic acid	2.0	U	2.0	0.52	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorohexanesulfonic acid	2.0	U	2.0	0.57	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorohexanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorononanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorononanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-445298/1-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 445298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorooctanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorooctanoic acid	2.0	U	2.0	0.64	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoropentanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoropentanoic acid	4.0	U	4.0	1.0	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorotetradecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluorotridecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
Perfluoroundecanoic acid	2.0	U	2.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1
PES	4.0	U	4.0	0.50	ng/L		11/20/23 06:48	12/01/23 17:39	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	70.3		25 - 160	11/20/23 06:48	12/01/23 17:39	1
13C2 PFTeDA	72.4		10 - 130	11/20/23 06:48	12/01/23 17:39	1
13C3 PFBS	80.2		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C4 PFBA	73.1		10 - 130	11/20/23 06:48	12/01/23 17:39	1
13C4 PFHpA	76.5		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C5 PFPeA	71.0		35 - 150	11/20/23 06:48	12/01/23 17:39	1
13C8 PFOA	76.5		60 - 140	11/20/23 06:48	12/01/23 17:39	1
13C8 PFOS	80.6		45 - 140	11/20/23 06:48	12/01/23 17:39	1
13C3 PFHxS	82.1		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C5 PFHxA	72.6		55 - 150	11/20/23 06:48	12/01/23 17:39	1
13C6 PFDA	76.6		50 - 140	11/20/23 06:48	12/01/23 17:39	1
13C7 PFUnA	81.7		30 - 140	11/20/23 06:48	12/01/23 17:39	1
13C8 FOSA	78.4		30 - 130	11/20/23 06:48	12/01/23 17:39	1
13C2-PFDoDA	77.2		10 - 150	11/20/23 06:48	12/01/23 17:39	1
13C9 PFNA	76.1		55 - 140	11/20/23 06:48	12/01/23 17:39	1
d3-NMeFOSAA	80.9		45 - 200	11/20/23 06:48	12/01/23 17:39	1
d3-NMePFOSA	62.2		15 - 130	11/20/23 06:48	12/01/23 17:39	1
d5-NEtFOSAA	73.4		10 - 200	11/20/23 06:48	12/01/23 17:39	1
d5-NEtPFOSA	59.7		10 - 130	11/20/23 06:48	12/01/23 17:39	1
d7-N-MeFOSE-M	73.5		10 - 150	11/20/23 06:48	12/01/23 17:39	1
d9-N-EtFOSE-M	70.1		10 - 150	11/20/23 06:48	12/01/23 17:39	1
M2-4:2 FTS	76.0		60 - 200	11/20/23 06:48	12/01/23 17:39	1
M2-6:2 FTS	71.8		60 - 200	11/20/23 06:48	12/01/23 17:39	1
M2-8:2 FTS	72.6		50 - 200	11/20/23 06:48	12/01/23 17:39	1

Lab Sample ID: LCS 410-445298/2-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.2	88.1		ng/L		94	46 - 156
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	99.6		ng/L		106	67 - 146
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	253		ng/L		101	69 - 137

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-445298/2-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	260		ng/L		104	71 - 136
3-Perfluoroheptylpropanoic acid	626	623		ng/L		100	50 - 138
3-Perfluoropentylpropanoic acid	626	699		ng/L		112	63 - 134
3-Perfluoropropyl propanoic acid	125	155		ng/L		124	62 - 129
4,8-dioxa-3H-perfluorononanoic acid	94.2	105		ng/L		112	68 - 146
6:2 Fluorotelomer sulfonic acid	95.2	87.8		ng/L		92	61 - 151
8:2 Fluorotelomer sulfonic acid	96.2	99.7		ng/L		104	63 - 152
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.2	90.4		ng/L		97	56 - 156
NEtFOSAA	25.0	27.5		ng/L		110	59 - 146
N-ethylperfluoro-1-octanesulfonamide	25.0	25.1		ng/L		100	65 - 139
NMeFOSA	25.0	25.7		ng/L		102	63 - 145
NMeFOSAA	25.0	27.4		ng/L		109	58 - 144
Nonafluoro-3,6-dioxaheptanoic acid	50.1	59.5		ng/L		119	48 - 161
Perfluoro(2-propoxypropanoic) acid	100	101		ng/L		101	63 - 144
Perfluoro-3-methoxypropanoic acid	50.1	58.1		ng/L		116	51 - 145
Perfluoro-4-methoxybutanoic acid	50.1	55.9		ng/L		112	55 - 148
Perfluorobutanesulfonic acid	22.2	21.4		ng/L		96	62 - 144
Perfluorobutanoic acid	100	109		ng/L		108	58 - 148
Perfluorodecanesulfonic acid	24.2	23.5		ng/L		97	51 - 147
Perfluorodecanoic acid	25.0	23.7		ng/L		95	52 - 147
Perfluorododecanesulfonic acid (PFDoS)	24.3	20.9		ng/L		86	36 - 145
Perfluorododecanoic acid	25.0	26.8		ng/L		107	64 - 142
Perfluoroheptanesulfonic acid	23.9	24.0		ng/L		100	55 - 152
Perfluoroheptanoic acid	25.0	26.9		ng/L		108	54 - 154
Perfluorohexanesulfonic acid	22.9	22.2		ng/L		97	57 - 146
Perfluorohexanoic acid	25.0	26.5		ng/L		106	55 - 152
Perfluorononanesulfonic acid	24.1	23.9		ng/L		99	52 - 148
Perfluorononanoic acid	25.0	32.3		ng/L		129	59 - 149
Perfluorooctanesulfonamide	25.0	23.3		ng/L		93	61 - 148
Perfluorooctanesulfonic acid	23.2	23.4		ng/L		101	58 - 149
Perfluorooctanoic acid	25.0	33.9		ng/L		135	52 - 161
Perfluoropentanesulfonic acid	23.6	23.8		ng/L		101	59 - 151
Perfluoropentanoic acid	50.1	58.2		ng/L		116	54 - 152
Perfluorotetradecanoic acid	25.0	26.0		ng/L		104	47 - 161
Perfluorotridecanoic acid	25.0	26.5		ng/L		106	49 - 148
Perfluoroundecanoic acid	25.0	24.4		ng/L		98	48 - 159
PES	44.6	47.7		ng/L		107	56 - 151

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	73.4		25 - 160
13C2 PFTeDA	76.3		10 - 130

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-445298/2-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C3 PFBS	83.3		25 - 150
13C4 PFBA	76.5		10 - 130
13C4 PFHpA	75.2		40 - 150
13C5 PFPeA	66.5		40 - 150
13C8 PFOA	89.9		30 - 140
13C8 PFOS	83.3		20 - 140
13C3 PFHxS	79.3		25 - 150
13C5 PFHxA	69.8		40 - 150
13C6 PFDA	83.6		20 - 140
13C7 PFUnA	83.4		20 - 140
13C8 FOSA	83.6		10 - 130
13C2-PFDoDA	80.9		10 - 150
13C9 PFNA	87.3		30 - 140
d3-NMeFOSAA	80.2		10 - 200
d3-NMePFOSA	62.0		10 - 130
d5-NEtFOSAA	78.4		10 - 200
d5-NEtPFOSA	63.3		10 - 130
d7-N-MeFOSE-M	78.1		10 - 150
d9-N-EtFOSE-M	76.9		10 - 150
M2-4:2 FTS	80.3		25 - 200
M2-6:2 FTS	77.8		25 - 200
M2-8:2 FTS	73.5		25 - 200

Lab Sample ID: LLCS 410-445298/3-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	17.0		ng/L		113	36 - 158	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	16.1		ng/L		107	52 - 158	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	40.8		ng/L		102	60 - 147	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	41.0		ng/L		103	56 - 151	
3-Perfluoroheptylpropanoic acid	100	104		ng/L		104	36 - 149	
3-Perfluoropentylpropanoic acid	100	111		ng/L		111	39 - 156	
3-Perfluoropropyl propanoic acid	20.0	21.9		ng/L		110	32 - 161	
4,8-dioxo-3H-perfluorononanoic acid	15.1	19.1		ng/L		127	61 - 148	
6:2 Fluorotelomer sulfonic acid	15.2	18.5		ng/L		122	48 - 158	
8:2 Fluorotelomer sulfonic acid	15.4	14.2		ng/L		93	46 - 165	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	14.9	16.6		ng/L		111	44 - 167	
NEtFOSAA	4.00	4.07		ng/L		102	51 - 154	
N-ethylperfluoro-1-octanesulfonamide	4.00	3.87		ng/L		97	49 - 156	
NMeFOSA	4.00	3.84		ng/L		96	54 - 155	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-445298/3-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	4.00	4.13		ng/L		103	32 - 160
Nonafluoro-3,6-dioxaheptanoic acid	8.00	8.28		ng/L		104	47 - 160
Perfluoro(2-propoxypropanoic) acid	16.0	17.1		ng/L		107	58 - 154
Perfluoro-3-methoxypropanoic acid	8.00	8.04		ng/L		101	48 - 150
Perfluoro-4-methoxybutanoic acid	8.00	7.31		ng/L		91	49 - 154
Perfluorobutanesulfonic acid	3.55	3.50		ng/L		99	63 - 145
Perfluorobutanoic acid	16.0	15.3		ng/L		96	44 - 157
Perfluorodecanesulfonic acid	3.86	3.54		ng/L		92	50 - 144
Perfluorodecanoic acid	4.00	3.55		ng/L		89	43 - 158
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.17		ng/L		82	30 - 138
Perfluorododecanoic acid	4.00	4.14		ng/L		103	60 - 141
Perfluoroheptanesulfonic acid	3.81	3.65		ng/L		96	51 - 150
Perfluoroheptanoic acid	4.00	4.34		ng/L		108	56 - 150
Perfluorohexanesulfonic acid	3.66	3.82		ng/L		105	44 - 158
Perfluorohexanoic acid	4.00	4.12		ng/L		103	62 - 149
Perfluorononanesulfonic acid	3.85	3.56		ng/L		93	46 - 151
Perfluorononanoic acid	4.00	4.29		ng/L		107	53 - 157
Perfluorooctanesulfonamide	4.00	3.62		ng/L		90	47 - 163
Perfluorooctanesulfonic acid	3.71	3.70		ng/L		100	43 - 162
Perfluorooctanoic acid	4.00	4.72		ng/L		118	57 - 161
Perfluoropentanesulfonic acid	3.76	3.84		ng/L		102	58 - 144
Perfluoropentanoic acid	8.00	8.49		ng/L		106	57 - 148
Perfluorotetradecanoic acid	4.00	4.08		ng/L		102	52 - 156
Perfluorotridecanoic acid	4.00	3.87		ng/L		97	52 - 140
Perfluoroundecanoic acid	4.00	3.99		ng/L		100	50 - 155
PES	7.12	7.80		ng/L		110	56 - 144

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	74.5		25 - 160
13C2 PFTeDA	73.6		10 - 130
13C3 PFBS	77.2		25 - 150
13C4 PFBA	73.2		10 - 130
13C4 PFHpA	77.4		40 - 150
13C5 PFPeA	76.5		40 - 150
13C8 PFOA	86.2		30 - 140
13C8 PFOS	78.2		20 - 140
13C3 PFHxS	75.3		25 - 150
13C5 PFHxA	74.5		40 - 150
13C6 PFDA	82.3		20 - 140
13C7 PFUnA	82.0		20 - 140
13C8 FOSA	73.6		10 - 130
13C2-PFDoDA	75.8		10 - 150
13C9 PFNA	83.3		30 - 140
d3-NMeFOSAA	74.4		10 - 200
d3-NMePFOSA	57.4		10 - 130

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-445298/3-A

Matrix: Water

Analysis Batch: 448926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 445298

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	75.1		10 - 200
d5-NEtPFOSA	58.1		10 - 130
d7-N-MeFOSE-M	72.3		10 - 150
d9-N-EtFOSE-M	70.2		10 - 150
M2-4:2 FTS	76.4		25 - 200
M2-6:2 FTS	70.8		25 - 200
M2-8:2 FTS	75.7		25 - 200

Lab Sample ID: 410-148925-6 DU

Matrix: Water

Analysis Batch: 448926

Client Sample ID: EB-SS-102523

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	7.6	U	7.5	U	ng/L		NC	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.6	U	7.5	U	ng/L		NC	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	19	U	19	U	ng/L		NC	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	19	U	19	U	ng/L		NC	30
3-Perfluoroheptylpropanoic acid	47	U	47	U	ng/L		NC	30
3-Perfluoropentylpropanoic acid	47	U	47	U	ng/L		NC	30
3-Perfluoropropyl propanoic acid	9.5	U	9.4	U	ng/L		NC	30
4,8-dioxo-3H-perfluorononanoic acid	7.6	U	7.5	U	ng/L		NC	30
6:2 Fluorotelomer sulfonic acid	7.6	U	7.5	U	ng/L		NC	30
8:2 Fluorotelomer sulfonic acid	7.6	U	7.5	U	ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	7.6	U	7.5	U	ng/L		NC	30
NEtFOSAA	1.9	U	1.9	U	ng/L		NC	30
N-ethylperfluoro-1-octanesulfonamide	1.9	U	1.9	U	ng/L		NC	30
NMeFOSA	1.9	U	1.9	U	ng/L		NC	30
NMeFOSAA	3.8	U	3.8	U	ng/L		NC	30
Nonafluoro-3,6-dioxaheptanoic acid	3.8	U	3.8	U	ng/L		NC	30
Perfluoro(2-propoxypropanoic) acid	7.6	U	7.5	U	ng/L		NC	30
Perfluoro-3-methoxypropanoic acid	3.8	U	3.8	U	ng/L		NC	30
Perfluoro-4-methoxybutanoic acid	3.8	U	3.8	U	ng/L		NC	30
Perfluorobutanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorobutanoic acid	7.6	U	7.5	U	ng/L		NC	30
Perfluorodecanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorodecanoic acid	1.5	J	2.14	F5	ng/L		36	30
Perfluorododecanesulfonic acid (PFDoS)	1.9	U	1.9	U	ng/L		NC	30
Perfluorododecanoic acid	0.62	J	0.628	J	ng/L		1	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 410-148925-6 DU

Matrix: Water

Analysis Batch: 448926

Client Sample ID: EB-SS-102523

Prep Type: Total/NA

Prep Batch: 445298

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Perfluoroheptanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluoroheptanoic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorohexanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorohexanoic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorononanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorononanoic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorooctanesulfonamide	1.9	U	1.9	U	ng/L		NC	30
Perfluorooctanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorooctanoic acid	1.3	J	1.55	J	ng/L		19	30
Perfluoropentanesulfonic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluoropentanoic acid	3.8	U	3.8	U	ng/L		NC	30
Perfluorotetradecanoic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluorotridecanoic acid	1.9	U	1.9	U	ng/L		NC	30
Perfluoroundecanoic acid	1.9	U	1.9	U	ng/L		NC	30
PES	3.8	U	3.8	U	ng/L		NC	30

Isotope Dilution	%Recovery	Qualifier	Limits
13C3 HFPO-DA	79.9		25 - 160
13C2 PFTeDA	73.9		10 - 130
13C3 PFBS	81.5		55 - 150
13C4 PFBA	76.0		10 - 130
13C4 PFHpA	85.8		55 - 150
13C5 PFPeA	78.4		35 - 150
13C8 PFOA	89.4		60 - 140
13C8 PFOS	85.4		45 - 140
13C3 PFHxS	83.5		55 - 150
13C5 PFHxA	79.8		55 - 150
13C6 PFDA	74.9		50 - 140
13C7 PFUnA	82.8		30 - 140
13C8 FOSA	81.8		30 - 130
13C2-PFDoDA	83.1		10 - 150
13C9 PFNA	85.3		55 - 140
d3-NMeFOSAA	85.1		45 - 200
d3-NMePFOSA	68.5		15 - 130
d5-NEtFOSAA	76.8		10 - 200
d5-NEtPFOSA	72.7		10 - 130
d7-N-MeFOSE-M	78.3		10 - 150
d9-N-EtFOSE-M	76.8		10 - 150
M2-4:2 FTS	78.9		60 - 200
M2-6:2 FTS	81.4		60 - 200
M2-8:2 FTS	82.6		50 - 200

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

LCMS

Prep Batch: 439147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-1	SS-75-0-2-102523	Total/NA	Solid	1633 Shake	
410-148925-1 - DL	SS-75-0-2-102523	Total/NA	Solid	1633 Shake	
410-148925-2	SS-75-2-12-102523	Total/NA	Solid	1633 Shake	
410-148925-2 - DL	SS-75-2-12-102523	Total/NA	Solid	1633 Shake	
410-148925-3	SS-76-0-2-102523	Total/NA	Solid	1633 Shake	
410-148925-3 - DL	SS-76-0-2-102523	Total/NA	Solid	1633 Shake	
410-148925-4	SS-FD-102523	Total/NA	Solid	1633 Shake	
410-148925-4 - DL	SS-FD-102523	Total/NA	Solid	1633 Shake	
410-148925-5 - DL	SS-76-2-12-102523	Total/NA	Solid	1633 Shake	
410-148925-5	SS-76-2-12-102523	Total/NA	Solid	1633 Shake	
MB 410-439147/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-439147/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-439147/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
410-148925-3 MS	SS-76-0-2-102523	Total/NA	Solid	1633 Shake	
410-148925-3 MSD	SS-76-0-2-102523	Total/NA	Solid	1633 Shake	

Prep Batch: 445298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-6	EB-SS-102523	Total/NA	Water	1633	
MB 410-445298/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-445298/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-445298/3-A	Lab Control Sample	Total/NA	Water	1633	
410-148925-6 DU	EB-SS-102523	Total/NA	Water	1633	

Analysis Batch: 448683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-1	SS-75-0-2-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-2	SS-75-2-12-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-3	SS-76-0-2-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-4	SS-FD-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-5	SS-76-2-12-102523	Total/NA	Solid	Draft-4 1633	439147
MB 410-439147/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	439147
LCS 410-439147/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	439147
LLCS 410-439147/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	439147
410-148925-3 MS	SS-76-0-2-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-3 MSD	SS-76-0-2-102523	Total/NA	Solid	Draft-4 1633	439147

Analysis Batch: 448926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-6	EB-SS-102523	Total/NA	Water	Draft-4 1633	445298
MB 410-445298/1-A	Method Blank	Total/NA	Water	Draft-4 1633	445298
LCS 410-445298/2-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	445298
LLCS 410-445298/3-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	445298
410-148925-6 DU	EB-SS-102523	Total/NA	Water	Draft-4 1633	445298

Analysis Batch: 448996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-1 - DL	SS-75-0-2-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-2 - DL	SS-75-2-12-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-3 - DL	SS-76-0-2-102523	Total/NA	Solid	Draft-4 1633	439147
410-148925-4 - DL	SS-FD-102523	Total/NA	Solid	Draft-4 1633	439147

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

LCMS (Continued)

Analysis Batch: 448996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-5 - DL	SS-76-2-12-102523	Total/NA	Solid	Draft-4 1633	439147

General Chemistry

Analysis Batch: 437310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-148925-1	SS-75-0-2-102523	Total/NA	Solid	Moisture	
410-148925-2	SS-75-2-12-102523	Total/NA	Solid	Moisture	
410-148925-3	SS-76-0-2-102523	Total/NA	Solid	Moisture	
410-148925-4	SS-FD-102523	Total/NA	Solid	Moisture	
410-148925-5	SS-76-2-12-102523	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-75-0-2-102523

Lab Sample ID: 410-148925-1

Date Collected: 10/25/23 13:30

Matrix: Solid

Date Received: 10/27/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-75-0-2-102523

Lab Sample ID: 410-148925-1

Date Collected: 10/25/23 13:30

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633		1	448683	KQ3F	ELLE	11/30/23 17:37
Total/NA	Prep	1633 Shake	DL		439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633	DL	10	448996	RPU6	ELLE	12/01/23 17:42

Client Sample ID: SS-75-2-12-102523

Lab Sample ID: 410-148925-2

Date Collected: 10/25/23 13:35

Matrix: Solid

Date Received: 10/27/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-75-2-12-102523

Lab Sample ID: 410-148925-2

Date Collected: 10/25/23 13:35

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633		1	448683	KQ3F	ELLE	11/30/23 17:50
Total/NA	Prep	1633 Shake	DL		439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633	DL	10	448996	RPU6	ELLE	12/01/23 17:55

Client Sample ID: SS-76-0-2-102523

Lab Sample ID: 410-148925-3

Date Collected: 10/25/23 14:10

Matrix: Solid

Date Received: 10/27/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-76-0-2-102523

Lab Sample ID: 410-148925-3

Date Collected: 10/25/23 14:10

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633		1	448683	KQ3F	ELLE	11/30/23 18:03
Total/NA	Prep	1633 Shake	DL		439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633	DL	10	448996	RPU6	ELLE	12/01/23 18:08

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Client Sample ID: SS-FD-102523

Lab Sample ID: 410-148925-4

Date Collected: 10/25/23 14:15

Matrix: Solid

Date Received: 10/27/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-FD-102523

Lab Sample ID: 410-148925-4

Date Collected: 10/25/23 14:15

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633		1	448683	KQ3F	ELLE	11/30/23 18:42
Total/NA	Prep	1633 Shake	DL		439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633	DL	10	448996	RPU6	ELLE	12/01/23 18:21

Client Sample ID: SS-76-2-12-102523

Lab Sample ID: 410-148925-5

Date Collected: 10/25/23 14:20

Matrix: Solid

Date Received: 10/27/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-76-2-12-102523

Lab Sample ID: 410-148925-5

Date Collected: 10/25/23 14:20

Matrix: Solid

Date Received: 10/27/23 09:54

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633		1	448683	KQ3F	ELLE	11/30/23 18:55
Total/NA	Prep	1633 Shake	DL		439147	BX2W	ELLE	11/03/23 07:06
Total/NA	Analysis	Draft-4 1633	DL	10	448996	RPU6	ELLE	12/01/23 18:34

Client Sample ID: EB-SS-102523

Lab Sample ID: 410-148925-6

Date Collected: 10/25/23 17:15

Matrix: Water

Date Received: 10/27/23 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			445298	RC3V	ELLE	11/20/23 06:48
Total/NA	Analysis	Draft-4 1633		1	448926	JVK6	ELLE	12/01/23 21:33

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633	Water	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633	Water	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633	Water	NEtFOSAA
Draft-4 1633	1633	Water	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633	Water	NMeFOSA
Draft-4 1633	1633	Water	Perfluorodecanesulfonic acid
Draft-4 1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633	Water	Perfluoroheptanoic acid
Draft-4 1633	1633	Water	Perfluorononanesulfonic acid
Draft-4 1633	1633	Water	Perfluorooctanesulfonamide
Draft-4 1633	1633	Water	PES
Draft-4 1633	1633 Shake	Solid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633 Shake	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633 Shake	Solid	4,8-dioxa-3H-perfluorononanoic acid
Draft-4 1633	1633 Shake	Solid	6:2 Fluorotelomer sulfonic acid
Draft-4 1633	1633 Shake	Solid	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
Draft-4 1633	1633 Shake	Solid	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633 Shake	Solid	NMeFOSA
Draft-4 1633	1633 Shake	Solid	Nonafluoro-3,6-dioxaheptanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro(2-propoxypropanoic) acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorononanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorooctanesulfonamide

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid
Draft-4 1633	1633 Shake	Solid	PES
Moisture		Solid	Percent Moisture

Method Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Method	Method Description	Protocol	Laboratory
Draft-4 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-148925-1	SS-75-0-2-102523	Solid	10/25/23 13:30	10/27/23 09:54
410-148925-2	SS-75-2-12-102523	Solid	10/25/23 13:35	10/27/23 09:54
410-148925-3	SS-76-0-2-102523	Solid	10/25/23 14:10	10/27/23 09:54
410-148925-4	SS-FD-102523	Solid	10/25/23 14:15	10/27/23 09:54
410-148925-5	SS-76-2-12-102523	Solid	10/25/23 14:20	10/27/23 09:54
410-148925-6	EB-SS-102523	Water	10/25/23 17:15	10/27/23 09:54

Albany

#224

Section A Laboratory

Lab Name: Eurofins

Lab Name: Eurofins

Attention: Natalie Luciano

Address:

Phone: 717-556-7258

Email: Natalie.Luciano@et.eurofinsus.com

Report To: Natalie Luciano

Copy To Ellen.Skiff@parsons.com; Laura.Drachenberg@parsons.com
Maryanne.Kosciewicz@parsons.com

Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD



410-148925 Chain of Custody

-CUSTODY / Analytical Request Document

Section B Client Information

Company: Parsons

Attention: Cynthia Oppenheimer

Address: 100 Pringle Ave, Ste 525,
Walnut Creek, CA, 94596

Phone: 925-324-4895

Email: Cynthia.Oppenhimer@parsons.com

Purchase Order No:

TAT - 10 Day

Section D Additional Information

COC #

Project

Project

Site:

Project
Number:

Taconic - Data Gap

Petersburg, NY

452026.209

Preservative codes (for water only):

0 1 0 2 3 1 0 0 3

Bottle Configuration
for Soils1-Terracore for VOCs,
1-4 oz for PFAS,
1-8 oz for other analyses

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Matrix	Sample Type	# of Cont.	MS/MS	Composite (Y/N)	PFAS Modified 1633	TAL Metals	Preservative codes (for water only):	Comments
										#Bottles	2	1			
1	818-75	0	2	SS-75-0-2-102523	10/25/23	1330	SO	N	2			X			
2	SS-75	2	12	SS-75-2-12-102523	10/25/23	1335	SO	N	2			X			
3	SS-76	0	2	SS-76-0-2-102523	10/25/23	1410	SO	N	8	X	X				
4	Field QC	0	2	SS-FD-102523	10/25/23	1415	SO	N	2			X			
5	SS-76	2	12	SS-76-2-12-102523	10/25/23	1420	SO	N	2			1			
6	Field QC	-	-	EB-SS-102523	10/25/23	1715	SO	N	2			X			
7															
8															
9															
10															

Special Instructions:

Samplers Name:

Alison Cook

Company:

Parsons

Date/Time: 10/26/23 1100

Relinquished By:

WMC

Company:

Parsons

Date/Time: 10/26/23 1100

Cooler Temp.:

Rec'd on Ice: Yes ☐ No ☐Custody Seals Intact: Yes ☐ No ☐Samples Intact: Yes ☐ No ☐

Shipment Method:

Shipment Tracking No:

Date/Time:

Accepted By:

Tim Knoll

Company:

EETW

Date/Time: 10-26-23 1100

Cooler Temp.:

Rec'd on Ice: Yes ☒ No ☐Custody Seals Intact: Yes ☒ No ☐Samples Intact: Yes ☒ No ☐

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (H3PO4):

SR

Mf 10/27/23 0954

Temp R 1.2-1.9

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-148925-1

Login Number: 148925

List Number: 1

Creator: Roth, Stephanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Mirarchi
Taconic Inc
136 Coon Brook Rd
Petersburgh, New York 12138

Generated 12/12/2023 1:18:25 PM

JOB DESCRIPTION

Taconic - Data Gap

JOB NUMBER

410-149053-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/12/2023 1:18:25 PM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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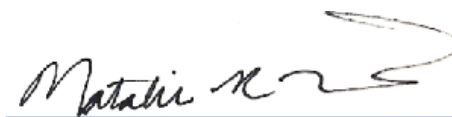


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Definitions/Glossary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Qualifiers

LCMS

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Job ID: 410-149053-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-149053-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/28/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 0.5°C, 0.5°C and 0.8°C

Receipt Exceptions

All backup containers for water samples received for 1633 PFAS analysis were frozen after receipt.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SS-77-0-2-102623 (410-149053-4). The container labels list SS-71-2-12-102623, while the COC lists SS-71-0-2-102623. Entered per COC.

PFAS

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 above or in the Definitions/ Glossary page.

Detection Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-78-0-2-102623

Lab Sample ID: 410-149053-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.14	J	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.080	J	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.12	J I	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.25		0.20	0.052	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.20		0.20	0.052	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorotridecanoic acid	0.063	J	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.13	J	0.20	0.051	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-78-2-12-102623

Lab Sample ID: 410-149053-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	0.12	J	0.92	0.12	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorodecanoic acid	0.11	J	0.23	0.058	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroheptanoic acid	0.10	J	0.23	0.058	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.20	J	0.23	0.058	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.21	J	0.23	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.71		0.23	0.059	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.076	J	0.23	0.058	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.13	J	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.096	J	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.087	J	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.31		0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.15	J	0.20	0.050	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.14	J	0.20	0.049	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.12	J	0.23	0.057	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorododecanoic acid	0.059	J I	0.23	0.057	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.086	J	0.23	0.057	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.30		0.23	0.058	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid	0.18	J	0.23	0.058	ng/g	1	✱	Draft-4 1633	Total/NA
Perfluoroundecanoic acid	0.070	J	0.23	0.057	ng/g	1	✱	Draft-4 1633	Total/NA

Client Sample ID: EB-SO-102623

Lab Sample ID: 410-149053-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-78-0-2-102623

Lab Sample ID: 410-149053-1

Date Collected: 10/26/23 11:15

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 81.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
1H, 1H, 2H, 2H-perfluorohexanesulfonic acid (4:2)	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.51	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.51	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
3-Perfluoroheptylpropanoic acid	5.1	U	5.1	1.0	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
3-Perfluoropentylpropanoic acid	5.1	U	5.1	1.0	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.36	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.36	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
9CI-PF3ONS	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
DONA	0.81	U	0.81	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
HFPODA	0.81	U	0.81	0.052	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
NEtFOSAA	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
NMeFOSA	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
NMeFOSAA	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Nonafluoro-3,6-dioxahexanoic acid	0.41	U	0.41	0.11	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoro-3-methoxypropanoic acid	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoro-4-methoxybutanoic acid	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorobutanoic acid	0.81	U	0.81	0.10	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorodecanoic acid	0.14	J	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorododecanoic acid	0.080	J	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoroheptanoic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorohexanoic acid	0.20	U	0.20	0.060	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorononanoic acid	0.12	J I	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorooctanesulfonic acid	0.25		0.20	0.052	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorooctanoic acid	0.20		0.20	0.052	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoropentanoic acid	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluorotridecanoic acid	0.063	J	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Perfluoroundecanoic acid	0.13	J	0.20	0.051	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
PES	0.41	U	0.41	0.10	ng/g	✱	12/07/23 12:50	12/12/23 05:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	86.3		20 - 150				12/07/23 12:50	12/12/23 05:30	1
13C2-PFDoDA	97.6		20 - 150				12/07/23 12:50	12/12/23 05:30	1
13C3 HFPO-DA	110		20 - 150				12/07/23 12:50	12/12/23 05:30	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-78-0-2-102623

Lab Sample ID: 410-149053-1

Date Collected: 10/26/23 11:15

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 81.6

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	118		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C3 PFHxS	104		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C4 PFBA	39.4		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C4 PFHpA	105		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C5 PFHxA	101		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C5 PFPeA	104		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C6 PFDA	99.6		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C7 PFUnA	102		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C8 FOSA	98.5		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C8 PFOA	121		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C8 PFOS	96.5		20 - 150	12/07/23 12:50	12/12/23 05:30	1
13C9 PFNA	106		20 - 150	12/07/23 12:50	12/12/23 05:30	1
d3-NMeFOSAA	90.1		20 - 150	12/07/23 12:50	12/12/23 05:30	1
d3-NMePFOSA	85.0		20 - 150	12/07/23 12:50	12/12/23 05:30	1
d5-NEtFOSAA	98.3		20 - 150	12/07/23 12:50	12/12/23 05:30	1
d5-NEtPFOSA	77.8		20 - 150	12/07/23 12:50	12/12/23 05:30	1
d7-N-MeFOSE-M	50.8		20 - 150	12/07/23 12:50	12/12/23 05:30	1
d9-N-EtFOSE-M	31.4		20 - 150	12/07/23 12:50	12/12/23 05:30	1
M2-4:2 FTS	113		20 - 150	12/07/23 12:50	12/12/23 05:30	1
M2-6:2 FTS	105		20 - 150	12/07/23 12:50	12/12/23 05:30	1
M2-8:2 FTS	98.4		20 - 150	12/07/23 12:50	12/12/23 05:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.4		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-78-2-12-102623

Lab Sample ID: 410-149053-2

Date Collected: 10/26/23 11:20

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 85.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.92	U	0.92	0.23	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.92	U	0.92	0.23	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.3	U	2.3	0.58	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.3	U	2.3	0.58	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
3-Perfluoroheptylpropanoic acid	5.8	U	5.8	1.2	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
3-Perfluoropentylpropanoic acid	5.8	U	5.8	1.2	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
3-Perfluoropropyl propanoic acid	1.2	U	1.2	0.29	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
6:2 Fluorotelomer sulfonic acid	1.2	U	1.2	0.40	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
8:2 Fluorotelomer sulfonic acid	1.2	U	1.2	0.40	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
9Cl-PF3ONS	0.92	U	0.92	0.23	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
DONA	0.92	U	0.92	0.23	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
HFPODA	0.92	U	0.92	0.059	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
NEtFOSAA	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
N-ethylperfluoro-1-octanesulfonamide	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-78-2-12-102623

Lab Sample ID: 410-149053-2

Date Collected: 10/26/23 11:20

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 85.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
NMeFOSAA	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Nonafluoro-3,6-dioxaheptanoic acid	0.46	U	0.46	0.12	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoro-3-methoxypropanoic acid	0.46	U	0.46	0.12	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoro-4-methoxybutanoic acid	0.46	U	0.46	0.12	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorobutanesulfonic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorobutanoic acid	0.12	J	0.92	0.12	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorodecanesulfonic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorodecanoic acid	0.11	J	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorododecanesulfonic acid (PFDoS)	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorododecanoic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoroheptanesulfonic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoroheptanoic acid	0.10	J	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorohexanesulfonic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorohexanoic acid	0.23	U	0.23	0.068	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorononanesulfonic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorononanoic acid	0.20	J	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorooctanesulfonamide	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorooctanesulfonic acid	0.21	J	0.23	0.059	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorooctanoic acid	0.71		0.23	0.059	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoropentanesulfonic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoropentanoic acid	0.46	U	0.46	0.12	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorotetradecanoic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluorotridecanoic acid	0.23	U	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
Perfluoroundecanoic acid	0.076	J	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1
PES	0.46	U	0.46	0.12	ng/g	✱	12/07/23 12:50	12/12/23 05:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	93.7		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C2-PFDoDA	103		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C3 HFPO-DA	97.3		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C3 PFBS	105		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C3 PFHxS	102		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C4 PFBA	103		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C4 PFHpA	102		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C5 PFHxA	103		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C5 PFPeA	94.6		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C6 PFDA	110		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C7 PFUnA	119		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C8 FOSA	106		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C8 PFOA	123		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C8 PFOS	103		20 - 150	12/07/23 12:50	12/12/23 05:43	1
13C9 PFNA	99.5		20 - 150	12/07/23 12:50	12/12/23 05:43	1
d3-NMeFOSAA	80.5		20 - 150	12/07/23 12:50	12/12/23 05:43	1
d3-NMePFOSA	85.5		20 - 150	12/07/23 12:50	12/12/23 05:43	1
d5-NEtFOSAA	89.9		20 - 150	12/07/23 12:50	12/12/23 05:43	1
d5-NEtPFOSA	78.4		20 - 150	12/07/23 12:50	12/12/23 05:43	1
d7-N-MeFOSE-M	67.1		20 - 150	12/07/23 12:50	12/12/23 05:43	1
d9-N-EtFOSE-M	46.9		20 - 150	12/07/23 12:50	12/12/23 05:43	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-78-2-12-102623

Lab Sample ID: 410-149053-2

Date Collected: 10/26/23 11:20

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 85.7

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	114		20 - 150	12/07/23 12:50	12/12/23 05:43	1
M2-6:2 FTS	95.3		20 - 150	12/07/23 12:50	12/12/23 05:43	1
M2-8:2 FTS	94.6		20 - 150	12/07/23 12:50	12/12/23 05:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.3		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-3

Date Collected: 10/26/23 11:25

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 84.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	0.78	U	0.78	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.78	U	0.78	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.49	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.49	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
3-Perfluoroheptylpropanoic acid	4.9	U	4.9	0.98	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
3-Perfluoropentylpropanoic acid	4.9	U	4.9	0.98	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
3-Perfluoropropyl propanoic acid	0.98	U	0.98	0.25	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
6:2 Fluorotelomer sulfonic acid	0.98	U	0.98	0.34	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
8:2 Fluorotelomer sulfonic acid	0.98	U	0.98	0.34	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
9CI-PF3ONS	0.78	U	0.78	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
DONA	0.78	U	0.78	0.20	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
HFPODA	0.78	U	0.78	0.050	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
NEtFOSAA	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
NMeFOSA	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
NMeFOSAA	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Nonafluoro-3,6-dioxaheptanoic acid	0.39	U	0.39	0.10	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoro-3-methoxypropanoic acid	0.39	U	0.39	0.098	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoro-4-methoxybutanoic acid	0.39	U	0.39	0.098	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorobutanoic acid	0.78	U	0.78	0.098	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorodecanoic acid	0.13	J	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorododecanoic acid	0.096	J	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoroheptanoic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorohexanoic acid	0.20	U	0.20	0.058	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorononanoic acid	0.087	J	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-3

Date Collected: 10/26/23 11:25

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 84.5

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorooctanesulfonic acid	0.31		0.20	0.050	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorooctanoic acid	0.15	J	0.20	0.050	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoropentanoic acid	0.39	U	0.39	0.098	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluorotridecanoic acid	0.20	U	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
Perfluoroundecanoic acid	0.14	J	0.20	0.049	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1
PES	0.39	U	0.39	0.098	ng/g	✱	12/07/23 12:50	12/12/23 05:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	89.5		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C2-PFDoDA	95.6		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C3 HFPO-DA	105		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C3 PFBS	115		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C3 PFHxS	104		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C4 PFBA	103		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C4 PFHpA	96.9		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C5 PFHxA	98.7		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C5 PFPeA	101		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C6 PFDA	106		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C7 PFUnA	104		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C8 FOSA	98.1		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C8 PFOA	113		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C8 PFOS	95.1		20 - 150	12/07/23 12:50	12/12/23 05:56	1
13C9 PFNA	101		20 - 150	12/07/23 12:50	12/12/23 05:56	1
d3-NMeFOSAA	89.2		20 - 150	12/07/23 12:50	12/12/23 05:56	1
d3-NMePFOSA	83.9		20 - 150	12/07/23 12:50	12/12/23 05:56	1
d5-NEtFOSAA	93.9		20 - 150	12/07/23 12:50	12/12/23 05:56	1
d5-NEtPFOSA	74.9		20 - 150	12/07/23 12:50	12/12/23 05:56	1
d7-N-MeFOSE-M	62.2		20 - 150	12/07/23 12:50	12/12/23 05:56	1
d9-N-EtFOSE-M	45.5		20 - 150	12/07/23 12:50	12/12/23 05:56	1
M2-4:2 FTS	104		20 - 150	12/07/23 12:50	12/12/23 05:56	1
M2-6:2 FTS	112		20 - 150	12/07/23 12:50	12/12/23 05:56	1
M2-8:2 FTS	100		20 - 150	12/07/23 12:50	12/12/23 05:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.5		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-4

Date Collected: 10/26/23 11:30

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 86.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.91	U	0.91	0.23	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.91	U	0.91	0.23	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.3	U	2.3	0.57	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-4

Date Collected: 10/26/23 11:30

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 86.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.3	U	2.3	0.57	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
3-Perfluoroheptylpropanoic acid	5.7	U	5.7	1.1	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
3-Perfluoropentylpropanoic acid	5.7	U	5.7	1.1	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
3-Perfluoropropyl propanoic acid	1.1	U	1.1	0.28	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
6:2 Fluorotelomer sulfonic acid	1.1	U	1.1	0.40	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
8:2 Fluorotelomer sulfonic acid	1.1	U	1.1	0.40	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
9Cl-PF3ONS	0.91	U	0.91	0.23	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
DONA	0.91	U	0.91	0.23	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
HFPODA	0.91	U	0.91	0.058	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
NEtFOSAA	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
N-ethylperfluoro-1-octanesulfonamide	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
NMeFOSA	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
NMeFOSAA	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Nonafluoro-3,6-dioxaheptanoic acid	0.46	U	0.46	0.12	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoro-3-methoxypropanoic acid	0.46	U	0.46	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoro-4-methoxybutanoic acid	0.46	U	0.46	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorobutanesulfonic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorobutanoic acid	0.91	U	0.91	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorodecanesulfonic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorodecanoic acid	0.12	J	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorododecanesulfonic acid (PFDoS)	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorododecanoic acid	0.059	J I	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoroheptanesulfonic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoroheptanoic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorohexanesulfonic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorohexanoic acid	0.23	U	0.23	0.067	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorononanesulfonic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorononanoic acid	0.086	J	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorooctanesulfonamide	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorooctanesulfonic acid	0.30		0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorooctanoic acid	0.18	J	0.23	0.058	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoropentanesulfonic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoropentanoic acid	0.46	U	0.46	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorotetradecanoic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluorotridecanoic acid	0.23	U	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
Perfluoroundecanoic acid	0.070	J	0.23	0.057	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1
PES	0.46	U	0.46	0.11	ng/g	✱	12/07/23 12:50	12/12/23 06:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	79.4		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C2-PFDoDA	91.4		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C3 HFPO-DA	110		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C3 PFBS	106		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C3 PFHxS	99.9		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C4 PFBA	102		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C4 PFHpA	97.7		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C5 PFHxA	104		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C5 PFPeA	109		20 - 150	12/07/23 12:50	12/12/23 06:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-4

Date Collected: 10/26/23 11:30

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 86.8

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	109		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C7 PFUnA	95.3		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C8 FOSA	105		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C8 PFOA	108		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C8 PFOS	91.6		20 - 150	12/07/23 12:50	12/12/23 06:10	1
13C9 PFNA	106		20 - 150	12/07/23 12:50	12/12/23 06:10	1
d3-NMeFOSAA	92.9		20 - 150	12/07/23 12:50	12/12/23 06:10	1
d3-NMePFOSA	84.4		20 - 150	12/07/23 12:50	12/12/23 06:10	1
d5-NEtFOSAA	103		20 - 150	12/07/23 12:50	12/12/23 06:10	1
d5-NEtPFOSA	75.4		20 - 150	12/07/23 12:50	12/12/23 06:10	1
d7-N-MeFOSE-M	71.5		20 - 150	12/07/23 12:50	12/12/23 06:10	1
d9-N-EtFOSE-M	46.9		20 - 150	12/07/23 12:50	12/12/23 06:10	1
M2-4:2 FTS	112		20 - 150	12/07/23 12:50	12/12/23 06:10	1
M2-6:2 FTS	101		20 - 150	12/07/23 12:50	12/12/23 06:10	1
M2-8:2 FTS	111		20 - 150	12/07/23 12:50	12/12/23 06:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.2		1.0	1.0	%			10/30/23 12:48	1

Client Sample ID: EB-SO-102623

Lab Sample ID: 410-149053-5

Date Collected: 10/26/23 17:45

Matrix: Water

Date Received: 10/28/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	7.3	U	7.3	1.8	ng/L		11/22/23 06:11	12/03/23 02:32	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	7.3	U	7.3	1.6	ng/L		11/22/23 06:11	12/03/23 02:32	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	18	U	18	4.6	ng/L		11/22/23 06:11	12/03/23 02:32	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	18	U	18	4.6	ng/L		11/22/23 06:11	12/03/23 02:32	1
3-Perfluoroheptylpropanoic acid	46	U	46	9.1	ng/L		11/22/23 06:11	12/03/23 02:32	1
3-Perfluoropentylpropanoic acid	46	U	46	9.1	ng/L		11/22/23 06:11	12/03/23 02:32	1
3-Perfluoropropyl propanoic acid	9.1	U	9.1	1.4	ng/L		11/22/23 06:11	12/03/23 02:32	1
6:2 Fluorotelomer sulfonic acid	7.3	U	7.3	2.3	ng/L		11/22/23 06:11	12/03/23 02:32	1
8:2 Fluorotelomer sulfonic acid	7.3	U	7.3	2.4	ng/L		11/22/23 06:11	12/03/23 02:32	1
9Cl-PF3ONS	7.3	U	7.3	0.91	ng/L		11/22/23 06:11	12/03/23 02:32	1
DONA	7.3	U	7.3	1.4	ng/L		11/22/23 06:11	12/03/23 02:32	1
HFPODA	7.3	U	7.3	1.8	ng/L		11/22/23 06:11	12/03/23 02:32	1
NEtFOSAA	1.8	U	1.8	0.64	ng/L		11/22/23 06:11	12/03/23 02:32	1
N-ethylperfluoro-1-octanesulfonamide	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
NMeFOSA	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
NMeFOSAA	3.7	U	3.7	1.1	ng/L		11/22/23 06:11	12/03/23 02:32	1
Nonafluoro-3,6-dioxaheptanoic acid	3.7	U	3.7	0.91	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoro-3-methoxypropanoic acid	3.7	U	3.7	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoro-4-methoxybutanoic acid	3.7	U	3.7	0.91	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorobutanesulfonic acid	1.8	U	1.8	0.27	ng/L		11/22/23 06:11	12/03/23 02:32	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: EB-SO-102623

Lab Sample ID: 410-149053-5

Date Collected: 10/26/23 17:45

Matrix: Water

Date Received: 10/28/23 09:45

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	7.3	U	7.3	1.8	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorodecanesulfonic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorodecanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorododecanesulfonic acid (PFDoS)	1.8	U	1.8	0.82	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorododecanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoroheptanesulfonic acid	1.8	U	1.8	0.37	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoroheptanoic acid	1.8	U	1.8	0.47	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorohexanesulfonic acid	1.8	U	1.8	0.52	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorohexanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorononanesulfonic acid	1.8	U	1.8	0.37	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorononanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorooctanesulfonamide	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorooctanesulfonic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorooctanoic acid	1.8	U	1.8	0.58	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoropentanesulfonic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoropentanoic acid	3.7	U	3.7	0.91	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorotetradecanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluorotridecanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
Perfluoroundecanoic acid	1.8	U	1.8	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1
PES	3.7	U	3.7	0.46	ng/L		11/22/23 06:11	12/03/23 02:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	101		60 - 200	11/22/23 06:11	12/03/23 02:32	1
d9-N-EtFOSE-M	89.7		10 - 150	11/22/23 06:11	12/03/23 02:32	1
d3-NMePFOSA	84.9		15 - 130	11/22/23 06:11	12/03/23 02:32	1
d7-N-MeFOSE-M	92.8		10 - 150	11/22/23 06:11	12/03/23 02:32	1
d5-NEtPFOSA	89.0		10 - 130	11/22/23 06:11	12/03/23 02:32	1
M2-6:2 FTS	112		60 - 200	11/22/23 06:11	12/03/23 02:32	1
M2-8:2 FTS	90.0		50 - 200	11/22/23 06:11	12/03/23 02:32	1
13C2 PFTeDA	75.2		10 - 130	11/22/23 06:11	12/03/23 02:32	1
13C3 HFPO-DA	70.2		25 - 160	11/22/23 06:11	12/03/23 02:32	1
13C3 PFBS	85.5		55 - 150	11/22/23 06:11	12/03/23 02:32	1
13C4 PFBA	85.6		10 - 130	11/22/23 06:11	12/03/23 02:32	1
13C4 PFHpA	87.5		55 - 150	11/22/23 06:11	12/03/23 02:32	1
13C5 PFPeA	80.8		35 - 150	11/22/23 06:11	12/03/23 02:32	1
13C8 PFOA	87.9		60 - 140	11/22/23 06:11	12/03/23 02:32	1
13C8 PFOS	95.6		45 - 140	11/22/23 06:11	12/03/23 02:32	1
d3-NMeFOSAA	102		45 - 200	11/22/23 06:11	12/03/23 02:32	1
d5-NEtFOSAA	89.3		10 - 200	11/22/23 06:11	12/03/23 02:32	1
13C3 PFHxS	91.7		55 - 150	11/22/23 06:11	12/03/23 02:32	1
13C5 PFHxA	82.9		55 - 150	11/22/23 06:11	12/03/23 02:32	1
13C6 PFDA	90.8		50 - 140	11/22/23 06:11	12/03/23 02:32	1
13C7 PFUnA	93.6		30 - 140	11/22/23 06:11	12/03/23 02:32	1
13C8 FOSA	94.9		30 - 130	11/22/23 06:11	12/03/23 02:32	1
13C2-PFDoDA	93.7		10 - 150	11/22/23 06:11	12/03/23 02:32	1
13C9 PFNA	90.6		55 - 140	11/22/23 06:11	12/03/23 02:32	1

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	PFDODA (20-150)	HFPODA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	PFBA (20-150)	C4PFHA (20-150)	13C5PHA (20-150)
410-149053-1	SS-78-0-2-102623	86.3	97.6	110	118	104	39.4	105	101
410-149053-2	SS-78-2-12-102623	93.7	103	97.3	105	102	103	102	103
410-149053-3	SS-77-0-2-102623	89.5	95.6	105	115	104	103	96.9	98.7
410-149053-4	SS-77-0-2-102623	79.4	91.4	110	106	99.9	102	97.7	104
LCS 410-451323/2-A	Lab Control Sample	91.2	99.5	99.5	91.6	94.3	58.8	112	94.5
LLCS 410-451323/3-A	Lab Control Sample	85.1	99.1	101	109	89.3	32.2	103	100
MB 410-451323/1-A	Method Blank	88.5	96.8	105	95.8	107	72.9	115	103
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)	PFOSA (20-150)	C8PFOA (20-150)	C8PFOS (20-150)	C9PFNA (20-150)	d3NMFOS (20-150)
410-149053-1	SS-78-0-2-102623	104	99.6	102	98.5	121	96.5	106	90.1
410-149053-2	SS-78-2-12-102623	94.6	110	119	106	123	103	99.5	80.5
410-149053-3	SS-77-0-2-102623	101	106	104	98.1	113	95.1	101	89.2
410-149053-4	SS-77-0-2-102623	109	109	95.3	105	108	91.6	106	92.9
LCS 410-451323/2-A	Lab Control Sample	104	105	97.4	115	99.2	88.6	89.2	95.7
LLCS 410-451323/3-A	Lab Control Sample	96.6	98.7	91.3	115	99.9	98.6	100	107
MB 410-451323/1-A	Method Blank	111	101	94.9	121	92.3	95.6	93.8	98.7
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d3NMFSA (20-150)	d5NEFOS (20-150)	d5NPFSA (20-150)	NMFM (20-150)	NEFM (20-150)	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)
410-149053-1	SS-78-0-2-102623	85.0	98.3	77.8	50.8	31.4	113	105	98.4
410-149053-2	SS-78-2-12-102623	85.5	89.9	78.4	67.1	46.9	114	95.3	94.6
410-149053-3	SS-77-0-2-102623	83.9	93.9	74.9	62.2	45.5	104	112	100
410-149053-4	SS-77-0-2-102623	84.4	103	75.4	71.5	46.9	112	101	111
LCS 410-451323/2-A	Lab Control Sample	76.2	100	69.5	71.6	64.4	115	105	107
LLCS 410-451323/3-A	Lab Control Sample	82.6	97.6	73.9	81.2	67.1	99.6	107	90.5
MB 410-451323/1-A	Method Blank	69.9	94.2	63.1	66.1	49.9	95.6	114	136

Surrogate Legend

PFTDA = 13C2 PFTeDA
PFDODA = 13C2-PFDODA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
13C5PHA = 13C5 PFHxA
PFPeA = 13C5 PFPeA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
d5NEFOS = d5-NEtFOSAA
d5NPFSA = d5-NEtPFOSA
NMFM = d7-N-MeFOSE-M

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (60-200)	NEFM (10-150)	d3NMFSa (15-130)	NMFM (10-150)	d5NPFSA (10-130)	M262FTS (60-200)	M282FTS (50-200)	PFTDA (10-130)
410-149053-5	EB-SO-102623	101	89.7	84.9	92.8	89.0	112	90.0	75.2
MB 410-446227/1-A	Method Blank	103	78.6	68.7	80.5	72.2	96.6	84.1	84.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (25-160)	C3PFBS (55-150)	PFBA (10-130)	C4PFHA (55-150)	PFPeA (35-150)	C8PFOA (60-140)	C8PFOS (45-140)	d3NMFOS (45-200)
410-149053-5	EB-SO-102623	70.2	85.5	85.6	87.5	80.8	87.9	95.6	102
MB 410-446227/1-A	Method Blank	79.9	95.5	82.9	84.4	79.3	83.2	90.1	83.2

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (10-200)	C3PFHS (55-150)	13C5PHA (55-150)	C6PFDA (50-140)	13C7PUA (30-140)	PFOSA (30-130)	PFDODA (10-150)	C9PFNA (55-140)
410-149053-5	EB-SO-102623	89.3	91.7	82.9	90.8	93.6	94.9	93.7	90.6
MB 410-446227/1-A	Method Blank	80.2	88.1	82.7	93.4	92.6	88.4	86.1	87.3

Surrogate Legend

M242FTS = M2-4:2 FTS
NEFM = d9-N-EtFOSE-M
d3NMFSa = d3-NMePFOSA
NMFM = d7-N-MeFOSE-M
d5NPFSA = d5-NEtPFOSA
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
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
PFDODA = 13C2-PFDODA
C9PFNA = 13C9 PFNA

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	NEFM (10-150)	NMFM (10-150)	d5NPFSA (10-130)	PFTDA (10-130)	HFPODA (25-160)	C3PFBS (25-150)	PFBA (10-130)	C4PFHA (40-150)
LCS 410-446227/2-A	Lab Control Sample	84.7	89.7	83.4	85.5	73.8	95.8	86.8	83.8

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	NEFM (10-150)	NMFM (10-150)	d5NPFSA (10-130)	PFTDA (10-130)	HFPODA (25-160)	C3PFBS (25-150)	PFBA (10-130)	C4PFHA (40-150)
LLCS 410-446227/3-A	Lab Control Sample	84.3	88.8	78.0	84.1	82.2	91.7	86.4	85.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (40-150)	C8PFOA (30-140)	C8PFOS (20-140)	d5NEFOS (10-200)	C3PFHS (25-150)	13C5PHA (40-150)	C6PFDA (20-140)	13C7PUA (20-140)
LCS 410-446227/2-A	Lab Control Sample	82.3	88.2	95.4	83.6	88.5	86.1	97.3	91.5
LLCS 410-446227/3-A	Lab Control Sample	84.3	87.8	97.8	88.5	84.5	85.2	95.2	92.2

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-130)	PFDODA (10-150)	C9PFNA (30-140)	d3NMFOS (10-200)	d3NMFSA (10-130)	M242FTS (25-200)	M262FTS (25-200)	M282FTS (25-200)
LCS 410-446227/2-A	Lab Control Sample	91.0	91.0	92.9	88.3	74.4	97.5	92.7	89.1
LLCS 410-446227/3-A	Lab Control Sample	94.3	89.3	89.7	91.4	75.7	100	99.1	84.0

Surrogate Legend

NEFM = d9-N-EtFOSE-M
NMFM = d7-N-MeFOSE-M
d5NPFSA = d5-NEtPFOSA
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d5NEFOS = d5-NEtFOSAA
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFOSA = 13C8 FOSA
PFDODA = 13C2-PFDODA
C9PFNA = 13C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-446227/1-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 446227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	8.0	U	8.0	2.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	8.0	U	8.0	1.7	ng/L		11/22/23 06:11	12/02/23 23:04	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	20	U	20	5.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
3-Perfluoroheptylpropanoic acid	50	U	50	10	ng/L		11/22/23 06:11	12/02/23 23:04	1
3-Perfluoropentylpropanoic acid	50	U	50	10	ng/L		11/22/23 06:11	12/02/23 23:04	1
3-Perfluoropropyl propanoic acid	10	U	10	1.5	ng/L		11/22/23 06:11	12/02/23 23:04	1
6:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.5	ng/L		11/22/23 06:11	12/02/23 23:04	1
8:2 Fluorotelomer sulfonic acid	8.0	U	8.0	2.6	ng/L		11/22/23 06:11	12/02/23 23:04	1
9CI-PF3ONS	8.0	U	8.0	1.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
DONA	8.0	U	8.0	1.5	ng/L		11/22/23 06:11	12/02/23 23:04	1
HFPODA	8.0	U	8.0	2.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
NEtFOSAA	2.0	U	2.0	0.70	ng/L		11/22/23 06:11	12/02/23 23:04	1
N-ethylperfluoro-1-octanesulfonamide	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
NMeFOSA	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
NMeFOSAA	4.0	U	4.0	1.2	ng/L		11/22/23 06:11	12/02/23 23:04	1
Nonafluoro-3,6-dioxahexanoic acid	4.0	U	4.0	1.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoro-3-methoxypropanoic acid	4.0	U	4.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoro-4-methoxybutanoic acid	4.0	U	4.0	1.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorobutanesulfonic acid	2.0	U	2.0	0.30	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorobutanoic acid	8.0	U	8.0	2.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorodecanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorodecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorododecanesulfonic acid (PFDoS)	2.0	U	2.0	0.90	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorododecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoroheptanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoroheptanoic acid	2.0	U	2.0	0.52	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorohexanesulfonic acid	2.0	U	2.0	0.57	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorohexanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorononanesulfonic acid	2.0	U	2.0	0.40	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorononanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorooctanesulfonamide	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorooctanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorooctanoic acid	2.0	U	2.0	0.64	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoropentanesulfonic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoropentanoic acid	4.0	U	4.0	1.0	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorotetradecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluorotridecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
Perfluoroundecanoic acid	2.0	U	2.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1
PES	4.0	U	4.0	0.50	ng/L		11/22/23 06:11	12/02/23 23:04	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	84.0		10 - 130	11/22/23 06:11	12/02/23 23:04	1
13C3 HFPO-DA	79.9		25 - 160	11/22/23 06:11	12/02/23 23:04	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-446227/1-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 446227

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	95.5		55 - 150	11/22/23 06:11	12/02/23 23:04	1
13C4 PFBA	82.9		10 - 130	11/22/23 06:11	12/02/23 23:04	1
13C4 PFHpA	84.4		55 - 150	11/22/23 06:11	12/02/23 23:04	1
13C5 PFPeA	79.3		35 - 150	11/22/23 06:11	12/02/23 23:04	1
13C8 PFOA	83.2		60 - 140	11/22/23 06:11	12/02/23 23:04	1
13C8 PFOS	90.1		45 - 140	11/22/23 06:11	12/02/23 23:04	1
13C3 PFHxS	88.1		55 - 150	11/22/23 06:11	12/02/23 23:04	1
13C5 PFHxA	82.7		55 - 150	11/22/23 06:11	12/02/23 23:04	1
13C6 PFDA	93.4		50 - 140	11/22/23 06:11	12/02/23 23:04	1
13C7 PFUnA	92.6		30 - 140	11/22/23 06:11	12/02/23 23:04	1
13C8 FOSA	88.4		30 - 130	11/22/23 06:11	12/02/23 23:04	1
13C2-PFDoDA	86.1		10 - 150	11/22/23 06:11	12/02/23 23:04	1
13C9 PFNA	87.3		55 - 140	11/22/23 06:11	12/02/23 23:04	1
d3-NMeFOSAA	83.2		45 - 200	11/22/23 06:11	12/02/23 23:04	1
d3-NMePFOSA	68.7		15 - 130	11/22/23 06:11	12/02/23 23:04	1
d5-NEtFOSAA	80.2		10 - 200	11/22/23 06:11	12/02/23 23:04	1
d5-NEtPFOSA	72.2		10 - 130	11/22/23 06:11	12/02/23 23:04	1
d7-N-MeFOSE-M	80.5		10 - 150	11/22/23 06:11	12/02/23 23:04	1
d9-N-EtFOSE-M	78.6		10 - 150	11/22/23 06:11	12/02/23 23:04	1
M2-4:2 FTS	103		60 - 200	11/22/23 06:11	12/02/23 23:04	1
M2-6:2 FTS	96.6		60 - 200	11/22/23 06:11	12/02/23 23:04	1
M2-8:2 FTS	84.1		50 - 200	11/22/23 06:11	12/02/23 23:04	1

Lab Sample ID: LCS 410-446227/2-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	94.2	88.6		ng/L		94	46 - 156
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	84.0		ng/L		89	67 - 146
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	249		ng/L		100	69 - 137
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	243		ng/L		97	71 - 136
3-Perfluoroheptylpropanoic acid	626	641		ng/L		102	50 - 138
3-Perfluoropentylpropanoic acid	626	644		ng/L		103	63 - 134
3-Perfluoropropyl propanoic acid	125	136		ng/L		109	62 - 129
6:2 Fluorotelomer sulfonic acid	95.2	92.3		ng/L		97	61 - 151
8:2 Fluorotelomer sulfonic acid	96.2	93.0		ng/L		97	63 - 152
9Cl-PF3ONS	93.2	96.3		ng/L		103	56 - 156
DONA	94.2	115		ng/L		122	68 - 146
HFPODA	100	105		ng/L		105	63 - 144
NEtFOSAA	25.0	25.9		ng/L		104	59 - 146
N-ethylperfluoro-1-octanesulfonamide	25.0	23.1		ng/L		92	65 - 139
NMeFOSA	25.0	24.2		ng/L		96	63 - 145
NMeFOSAA	25.0	24.8		ng/L		99	58 - 144

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-446227/2-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid	50.1	50.8		ng/L		101	48 - 161
Perfluoro-3-methoxypropanoic acid	50.1	53.7		ng/L		107	51 - 145
Perfluoro-4-methoxybutanoic acid	50.1	51.1		ng/L		102	55 - 148
Perfluorobutanesulfonic acid	22.2	20.2		ng/L		91	62 - 144
Perfluorobutanoic acid	100	103		ng/L		103	58 - 148
Perfluorodecanesulfonic acid	24.2	22.3		ng/L		92	51 - 147
Perfluorodecanoic acid	25.0	22.9		ng/L		92	52 - 147
Perfluorododecanesulfonic acid (PFDoS)	24.3	20.8		ng/L		86	36 - 145
Perfluorododecanoic acid	25.0	26.2		ng/L		105	64 - 142
Perfluoroheptanesulfonic acid	23.9	20.4		ng/L		85	55 - 152
Perfluoroheptanoic acid	25.0	26.1		ng/L		104	54 - 154
Perfluorohexanesulfonic acid	22.9	21.8		ng/L		95	57 - 146
Perfluorohexanoic acid	25.0	24.8		ng/L		99	55 - 152
Perfluorononanesulfonic acid	24.1	21.5		ng/L		89	52 - 148
Perfluorononanoic acid	25.0	30.0		ng/L		120	59 - 149
Perfluorooctanesulfonamide	25.0	22.6		ng/L		90	61 - 148
Perfluorooctanesulfonic acid	23.2	21.3		ng/L		92	58 - 149
Perfluorooctanoic acid	25.0	31.1		ng/L		124	52 - 161
Perfluoropentanesulfonic acid	23.6	25.3		ng/L		107	59 - 151
Perfluoropentanoic acid	50.1	52.7		ng/L		105	54 - 152
Perfluorotetradecanoic acid	25.0	23.8		ng/L		95	47 - 161
Perfluorotridecanoic acid	25.0	24.0		ng/L		96	49 - 148
Perfluoroundecanoic acid	25.0	24.3		ng/L		97	48 - 159
PES	44.6	43.0		ng/L		96	56 - 151

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	85.5		10 - 130
13C3 HFPO-DA	73.8		25 - 160
13C3 PFBS	95.8		25 - 150
13C4 PFBA	86.8		10 - 130
13C4 PFHpA	83.8		40 - 150
13C5 PFPeA	82.3		40 - 150
13C8 PFOA	88.2		30 - 140
13C8 PFOS	95.4		20 - 140
13C3 PFHxS	88.5		25 - 150
13C5 PFHxA	86.1		40 - 150
13C6 PFDA	97.3		20 - 140
13C7 PFUnA	91.5		20 - 140
13C8 FOSA	91.0		10 - 130
13C2-PFDoDA	91.0		10 - 150
13C9 PFNA	92.9		30 - 140
d3-NMeFOSAA	88.3		10 - 200
d3-NMePFOSA	74.4		10 - 130
d5-NEtFOSAA	83.6		10 - 200
d5-NEtPFOSA	83.4		10 - 130
d7-N-MeFOSE-M	89.7		10 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-446227/2-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446227

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	84.7		10 - 150
M2-4:2 FTS	97.5		25 - 200
M2-6:2 FTS	92.7		25 - 200
M2-8:2 FTS	89.1		25 - 200

Lab Sample ID: LLCS 410-446227/3-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446227

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	15.1	15.2		ng/L		101	36 - 158
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	11.4		ng/L		76	52 - 158
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	40.4		ng/L		101	60 - 147
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	39.0		ng/L		98	56 - 151
3-Perfluoroheptylpropanoic acid	100	105		ng/L		105	36 - 149
3-Perfluoropentylpropanoic acid	100	109		ng/L		108	39 - 156
3-Perfluoropropyl propanoic acid	20.0	21.2		ng/L		106	32 - 161
6:2 Fluorotelomer sulfonic acid	15.2	13.6		ng/L		90	48 - 158
8:2 Fluorotelomer sulfonic acid	15.4	14.0		ng/L		91	46 - 165
9Cl-PF3ONS	14.9	15.6		ng/L		105	44 - 167
DONA	15.1	19.6		ng/L		130	61 - 148
HFPODA	16.0	16.3		ng/L		102	58 - 154
NEtFOSAA	4.00	3.84		ng/L		96	51 - 154
N-ethylperfluoro-1-octanesulfonamide	4.00	3.76		ng/L		94	49 - 156
NMeFOSA	4.00	3.73		ng/L		93	54 - 155
NMeFOSAA	4.00	3.60	J	ng/L		90	32 - 160
Nonafluoro-3,6-dioxaheptanoic acid	8.00	8.99		ng/L		112	47 - 160
Perfluoro-3-methoxypropanoic acid	8.00	7.95		ng/L		99	48 - 150
Perfluoro-4-methoxybutanoic acid	8.00	7.62		ng/L		95	49 - 154
Perfluorobutanesulfonic acid	3.55	3.19		ng/L		90	63 - 145
Perfluorobutanoic acid	16.0	13.6		ng/L		85	44 - 157
Perfluorodecanesulfonic acid	3.86	3.32		ng/L		86	50 - 144
Perfluorodecanoic acid	4.00	3.65		ng/L		91	43 - 158
Perfluorodecanesulfonic acid (PFDoS)	3.88	3.06		ng/L		79	30 - 138
Perfluorodecanoic acid	4.00	3.98		ng/L		100	60 - 141
Perfluoroheptanesulfonic acid	3.81	3.24		ng/L		85	51 - 150
Perfluoroheptanoic acid	4.00	4.08		ng/L		102	56 - 150
Perfluorohexanesulfonic acid	3.66	3.48		ng/L		95	44 - 158
Perfluorohexanoic acid	4.00	3.99		ng/L		100	62 - 149
Perfluorononanesulfonic acid	3.85	3.20		ng/L		83	46 - 151
Perfluorononanoic acid	4.00	4.64		ng/L		116	53 - 157

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-446227/3-A

Matrix: Water

Analysis Batch: 449408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 446227

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	4.00	3.31		ng/L		83	47 - 163
Perfluorooctanesulfonic acid	3.71	3.19		ng/L		86	43 - 162
Perfluorooctanoic acid	4.00	5.41		ng/L		135	57 - 161
Perfluoropentanesulfonic acid	3.76	3.97		ng/L		105	58 - 144
Perfluoropentanoic acid	8.00	8.28		ng/L		104	57 - 148
Perfluorotetradecanoic acid	4.00	3.67		ng/L		92	52 - 156
Perfluorotridecanoic acid	4.00	3.65		ng/L		91	52 - 140
Perfluoroundecanoic acid	4.00	3.73		ng/L		93	50 - 155
PES	7.12	7.24		ng/L		102	56 - 144

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFTeDA	84.1		10 - 130
13C3 HFPO-DA	82.2		25 - 160
13C3 PFBS	91.7		25 - 150
13C4 PFBA	86.4		10 - 130
13C4 PFHpA	85.0		40 - 150
13C5 PFPeA	84.3		40 - 150
13C8 PFOA	87.8		30 - 140
13C8 PFOS	97.8		20 - 140
13C3 PFHxS	84.5		25 - 150
13C5 PFHxA	85.2		40 - 150
13C6 PFDA	95.2		20 - 140
13C7 PFUnA	92.2		20 - 140
13C8 FOSA	94.3		10 - 130
13C2-PFDoDA	89.3		10 - 150
13C9 PFNA	89.7		30 - 140
d3-NMeFOSAA	91.4		10 - 200
d3-NMePFOSA	75.7		10 - 130
d5-NEtFOSAA	88.5		10 - 200
d5-NEtPFOSA	78.0		10 - 130
d7-N-MeFOSE-M	88.8		10 - 150
d9-N-EtFOSE-M	84.3		10 - 150
M2-4:2 FTS	100		25 - 200
M2-6:2 FTS	99.1		25 - 200
M2-8:2 FTS	84.0		25 - 200

Lab Sample ID: MB 410-451323/1-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		12/07/23 12:50	12/12/23 02:53	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	2.0	U	2.0	0.50	ng/g		12/07/23 12:50	12/12/23 02:53	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-451323/1-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid	5.0	U	5.0	1.0	ng/g		12/07/23 12:50	12/12/23 02:53	1
3-Perfluoropentylpropanoic acid	5.0	U	5.0	1.0	ng/g		12/07/23 12:50	12/12/23 02:53	1
3-Perfluoropropyl propanoic acid	1.0	U	1.0	0.25	ng/g		12/07/23 12:50	12/12/23 02:53	1
6:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		12/07/23 12:50	12/12/23 02:53	1
8:2 Fluorotelomer sulfonic acid	1.0	U	1.0	0.35	ng/g		12/07/23 12:50	12/12/23 02:53	1
9Cl-PF3ONS	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
DONA	0.80	U	0.80	0.20	ng/g		12/07/23 12:50	12/12/23 02:53	1
HFPODA	0.80	U	0.80	0.051	ng/g		12/07/23 12:50	12/12/23 02:53	1
NEtFOSAA	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
N-ethylperfluoro-1-octanesulfonamide	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
NMeFOSA	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
NMeFOSAA	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Nonafluoro-3,6-dioxaheptanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoro-3-methoxypropanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoro-4-methoxybutanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorobutanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorobutanoic acid	0.80	U	0.80	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorodecanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorodecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorododecanesulfonic acid (PFDoS)	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorododecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoroheptanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoroheptanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorohexanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorohexanoic acid	0.20	U	0.20	0.059	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorononanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorononanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorooctanesulfonamide	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorooctanesulfonic acid	0.20	U	0.20	0.051	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorooctanoic acid	0.20	U	0.20	0.051	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoropentanesulfonic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoropentanoic acid	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorotetradecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluorotridecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
Perfluoroundecanoic acid	0.20	U	0.20	0.050	ng/g		12/07/23 12:50	12/12/23 02:53	1
PES	0.40	U	0.40	0.10	ng/g		12/07/23 12:50	12/12/23 02:53	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	88.5		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C3 HFPO-DA	105		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C3 PFBS	95.8		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C4 PFBA	72.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C4 PFHpA	115		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C5 PFPeA	111		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C8 PFOA	92.3		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C8 PFOS	95.6		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C3 PFHxS	107		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C5 PFHxA	103		20 - 150	12/07/23 12:50	12/12/23 02:53	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-451323/1-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451323

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	101		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C7 PFUnA	94.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C8 FOSA	121		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C2-PFDoDA	96.8		20 - 150	12/07/23 12:50	12/12/23 02:53	1
13C9 PFNA	93.8		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d3-NMeFOSAA	98.7		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d3-NMePFOSA	69.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d5-NEtFOSAA	94.2		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d5-NEtPFOSA	63.1		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d7-N-MeFOSE-M	66.1		20 - 150	12/07/23 12:50	12/12/23 02:53	1
d9-N-EtFOSE-M	49.9		20 - 150	12/07/23 12:50	12/12/23 02:53	1
M2-4:2 FTS	95.6		20 - 150	12/07/23 12:50	12/12/23 02:53	1
M2-6:2 FTS	114		20 - 150	12/07/23 12:50	12/12/23 02:53	1
M2-8:2 FTS	136		20 - 150	12/07/23 12:50	12/12/23 02:53	1

Lab Sample ID: LCS 410-451323/2-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	9.42	8.74		ng/g		93	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.39	7.87		ng/g		84	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	21.0		ng/g		84	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	23.5		ng/g		94	40 - 150
3-Perfluoroheptylpropanoic acid	62.6	64.9		ng/g		104	40 - 150
3-Perfluoropentylpropanoic acid	62.6	60.9		ng/g		97	40 - 150
3-Perfluoropropyl propanoic acid	12.5	10.6		ng/g		85	40 - 150
6:2 Fluorotelomer sulfonic acid	9.52	7.33		ng/g		77	40 - 150
8:2 Fluorotelomer sulfonic acid	9.62	7.66		ng/g		80	40 - 150
9Cl-PF3ONS	9.32	7.75		ng/g		83	40 - 150
DONA	9.42	8.86		ng/g		94	40 - 150
HFPODA	10.0	7.62		ng/g		76	40 - 150
NEtFOSAA	2.50	2.27		ng/g		91	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	2.09		ng/g		83	40 - 150
NMeFOSA	2.50	2.18		ng/g		87	40 - 150
NMeFOSAA	2.50	1.92		ng/g		77	40 - 150
Nonafluoro-3,6-dioxahexanoic acid	5.01	4.53		ng/g		90	40 - 150
Perfluoro-3-methoxypropanoic acid	5.01	4.09		ng/g		82	40 - 150
Perfluoro-4-methoxybutanoic acid	5.01	4.11		ng/g		82	40 - 150
Perfluorobutanesulfonic acid	2.22	1.94		ng/g		87	40 - 150
Perfluorobutanoic acid	10.0	8.81		ng/g		88	40 - 150
Perfluorodecanesulfonic acid	2.42	2.65		ng/g		110	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-451323/2-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid	2.50	2.12		ng/g		85	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.99		ng/g		82	40 - 150
Perfluorododecanoic acid	2.50	2.31		ng/g		92	40 - 150
Perfluoroheptanesulfonic acid	2.39	2.38		ng/g		100	40 - 150
Perfluoroheptanoic acid	2.50	2.20		ng/g		88	40 - 150
Perfluorohexanesulfonic acid	2.29	1.96		ng/g		86	40 - 150
Perfluorohexanoic acid	2.50	2.45		ng/g		98	40 - 150
Perfluorononanesulfonic acid	2.41	2.60		ng/g		108	40 - 150
Perfluorononanoic acid	2.50	2.66		ng/g		106	40 - 150
Perfluorooctanesulfonamide	2.50	2.16		ng/g		86	40 - 150
Perfluorooctanesulfonic acid	2.32	2.30		ng/g		99	40 - 150
Perfluorooctanoic acid	2.50	2.44		ng/g		98	40 - 150
Perfluoropentanesulfonic acid	2.36	2.15		ng/g		91	40 - 150
Perfluoropentanoic acid	5.01	4.67		ng/g		93	40 - 150
Perfluorotetradecanoic acid	2.50	2.40		ng/g		96	40 - 150
Perfluorotridecanoic acid	2.50	2.19		ng/g		88	40 - 150
Perfluoroundecanoic acid	2.50	2.07		ng/g		82	40 - 150
PES	4.46	4.01		ng/g		90	40 - 150

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	91.2		20 - 150
13C3 HFPO-DA	99.5		20 - 150
13C3 PFBS	91.6		20 - 150
13C4 PFBA	58.8		20 - 150
13C4 PFHpA	112		20 - 150
13C5 PFPeA	104		20 - 150
13C8 PFOA	99.2		20 - 150
13C8 PFOS	88.6		20 - 150
13C3 PFHxS	94.3		20 - 150
13C5 PFHxA	94.5		20 - 150
13C6 PFDA	105		20 - 150
13C7 PFUnA	97.4		20 - 150
13C8 FOSA	115		20 - 150
13C2-PFDoDA	99.5		20 - 150
13C9 PFNA	89.2		20 - 150
d3-NMeFOSAA	95.7		20 - 150
d3-NMePFOSA	76.2		20 - 150
d5-NEtFOSAA	100		20 - 150
d5-NEtPFOSA	69.5		20 - 150
d7-N-MeFOSE-M	71.6		20 - 150
d9-N-EtFOSE-M	64.4		20 - 150
M2-4:2 FTS	115		20 - 150
M2-6:2 FTS	105		20 - 150
M2-8:2 FTS	107		20 - 150

QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-451323/3-A

Matrix: Solid

Analysis Batch: 452719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451323

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11CI-PF3OUdS	1.51	1.30		ng/g		86	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.50	1.07		ng/g		71	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	3.30		ng/g		83	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	3.59		ng/g		90	40 - 150
3-Perfluoroheptylpropanoic acid	10.0	8.34		ng/g		83	40 - 150
3-Perfluoropentylpropanoic acid	10.0	8.81		ng/g		88	40 - 150
3-Perfluoropropyl propanoic acid	2.00	1.77		ng/g		88	40 - 150
6:2 Fluorotelomer sulfonic acid	1.52	1.07		ng/g		70	40 - 150
8:2 Fluorotelomer sulfonic acid	1.54	1.61		ng/g		105	40 - 150
9CI-PF3ONS	1.49	1.23		ng/g		82	40 - 150
DONA	1.51	1.26		ng/g		84	40 - 150
HFPODA	1.60	1.27		ng/g		80	40 - 150
NEtFOSAA	0.400	0.311		ng/g		78	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.331		ng/g		83	40 - 150
NMeFOSA	0.400	0.318		ng/g		80	40 - 150
NMeFOSAA	0.400	0.266		ng/g		66	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid	0.800	0.682		ng/g		85	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.468		ng/g		58	40 - 150
Perfluoro-4-methoxybutanoic acid	0.800	0.713		ng/g		89	40 - 150
Perfluorobutanesulfonic acid	0.355	0.268		ng/g		76	40 - 150
Perfluorobutanoic acid	1.60	1.31		ng/g		82	40 - 150
Perfluorodecanesulfonic acid	0.386	0.361		ng/g		93	40 - 150
Perfluorodecanoic acid	0.400	0.301		ng/g		75	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.270		ng/g		70	40 - 150
Perfluorododecanoic acid	0.400	0.361		ng/g		90	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.370		ng/g		97	40 - 150
Perfluoroheptanoic acid	0.400	0.349		ng/g		87	40 - 150
Perfluorohexanesulfonic acid	0.366	0.328		ng/g		90	40 - 150
Perfluorohexanoic acid	0.400	0.316		ng/g		79	40 - 150
Perfluorononanesulfonic acid	0.385	0.401		ng/g		104	40 - 150
Perfluorononanoic acid	0.400	0.435		ng/g		109	40 - 150
Perfluorooctanesulfonamide	0.400	0.329		ng/g		82	40 - 150
Perfluorooctanesulfonic acid	0.371	0.344		ng/g		93	40 - 150
Perfluorooctanoic acid	0.400	0.366		ng/g		91	40 - 150
Perfluoropentanesulfonic acid	0.376	0.318		ng/g		84	40 - 150
Perfluoropentanoic acid	0.800	0.664		ng/g		83	40 - 150
Perfluorotetradecanoic acid	0.400	0.337		ng/g		84	40 - 150
Perfluorotridecanoic acid	0.400	0.322		ng/g		81	40 - 150
Perfluoroundecanoic acid	0.400	0.359		ng/g		90	40 - 150
PES	0.712	0.645		ng/g		91	40 - 150

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QC Sample Results

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	85.1		20 - 150
13C3 HFPO-DA	101		20 - 150
13C3 PFBS	109		20 - 150
13C4 PFBA	32.2		20 - 150
13C4 PFHpA	103		20 - 150
13C5 PFPeA	96.6		20 - 150
13C8 PFOA	99.9		20 - 150
13C8 PFOS	98.6		20 - 150
13C3 PFHxS	89.3		20 - 150
13C5 PFHxA	100		20 - 150
13C6 PFDA	98.7		20 - 150
13C7 PFUnA	91.3		20 - 150
13C8 FOSA	115		20 - 150
13C2-PFDoDA	99.1		20 - 150
13C9 PFNA	100		20 - 150
d3-NMeFOSAA	107		20 - 150
d3-NMePFOSA	82.6		20 - 150
d5-NEtFOSAA	97.6		20 - 150
d5-NEtPFOSA	73.9		20 - 150
d7-N-MeFOSE-M	81.2		20 - 150
d9-N-EtFOSE-M	67.1		20 - 150
M2-4:2 FTS	99.6		20 - 150
M2-6:2 FTS	107		20 - 150
M2-8:2 FTS	90.5		20 - 150

QC Association Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

LCMS

Prep Batch: 446227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149053-5	EB-SO-102623	Total/NA	Water	1633	
MB 410-446227/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-446227/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-446227/3-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 449408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149053-5	EB-SO-102623	Total/NA	Water	Draft-4 1633	446227
MB 410-446227/1-A	Method Blank	Total/NA	Water	Draft-4 1633	446227
LCS 410-446227/2-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	446227
LLCS 410-446227/3-A	Lab Control Sample	Total/NA	Water	Draft-4 1633	446227

Prep Batch: 451323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149053-1	SS-78-0-2-102623	Total/NA	Solid	1633 Shake	
410-149053-2	SS-78-2-12-102623	Total/NA	Solid	1633 Shake	
410-149053-3	SS-77-0-2-102623	Total/NA	Solid	1633 Shake	
410-149053-4	SS-77-0-2-102623	Total/NA	Solid	1633 Shake	
MB 410-451323/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-451323/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-451323/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 452719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149053-1	SS-78-0-2-102623	Total/NA	Solid	Draft-4 1633	451323
410-149053-2	SS-78-2-12-102623	Total/NA	Solid	Draft-4 1633	451323
410-149053-3	SS-77-0-2-102623	Total/NA	Solid	Draft-4 1633	451323
410-149053-4	SS-77-0-2-102623	Total/NA	Solid	Draft-4 1633	451323
MB 410-451323/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	451323
LCS 410-451323/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	451323
LLCS 410-451323/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	451323

General Chemistry

Analysis Batch: 437310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149053-1	SS-78-0-2-102623	Total/NA	Solid	Moisture	
410-149053-2	SS-78-2-12-102623	Total/NA	Solid	Moisture	
410-149053-3	SS-77-0-2-102623	Total/NA	Solid	Moisture	
410-149053-4	SS-77-0-2-102623	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-78-0-2-102623

Lab Sample ID: 410-149053-1

Date Collected: 10/26/23 11:15

Matrix: Solid

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-78-0-2-102623

Lab Sample ID: 410-149053-1

Date Collected: 10/26/23 11:15

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633		1	452719	VK3G	ELLE	12/12/23 05:30

Client Sample ID: SS-78-2-12-102623

Lab Sample ID: 410-149053-2

Date Collected: 10/26/23 11:20

Matrix: Solid

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-78-2-12-102623

Lab Sample ID: 410-149053-2

Date Collected: 10/26/23 11:20

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633		1	452719	VK3G	ELLE	12/12/23 05:43

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-3

Date Collected: 10/26/23 11:25

Matrix: Solid

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-3

Date Collected: 10/26/23 11:25

Matrix: Solid

Date Received: 10/28/23 09:45

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633		1	452719	VK3G	ELLE	12/12/23 05:56

Client Sample ID: SS-77-0-2-102623

Lab Sample ID: 410-149053-4

Date Collected: 10/26/23 11:30

Matrix: Solid

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	437310	UVJN	ELLE	10/30/23 12:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Taconic Inc
 Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Client Sample ID: SS-77-0-2-102623
Date Collected: 10/26/23 11:30
Date Received: 10/28/23 09:45

Lab Sample ID: 410-149053-4
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			451323	BX2W	ELLE	12/07/23 12:50
Total/NA	Analysis	Draft-4 1633		1	452719	VK3G	ELLE	12/12/23 06:10

Client Sample ID: EB-SO-102623
Date Collected: 10/26/23 17:45
Date Received: 10/28/23 09:45

Lab Sample ID: 410-149053-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			446227	BX2W	ELLE	11/22/23 06:11
Total/NA	Analysis	Draft-4 1633		1	449408	VK3G	ELLE	12/03/23 02:32

Laboratory References:
 ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633	Water	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633	Water	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633	Water	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633	Water	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633	Water	NEtFOSAA
Draft-4 1633	1633	Water	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633	Water	NMeFOSA
Draft-4 1633	1633	Water	Perfluorodecanesulfonic acid
Draft-4 1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633	Water	Perfluoroheptanoic acid
Draft-4 1633	1633	Water	Perfluorononanesulfonic acid
Draft-4 1633	1633	Water	Perfluorooctanesulfonamide
Draft-4 1633	1633	Water	PES
Draft-4 1633	1633 Shake	Solid	11Cl-PF3OUdS
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633 Shake	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid
Draft-4 1633	1633 Shake	Solid	3-Perfluoropropyl propanoic acid
Draft-4 1633	1633 Shake	Solid	6:2 Fluorotelomer sulfonic acid
Draft-4 1633	1633 Shake	Solid	9Cl-PF3ONS
Draft-4 1633	1633 Shake	Solid	DONA
Draft-4 1633	1633 Shake	Solid	HFPODA
Draft-4 1633	1633 Shake	Solid	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633 Shake	Solid	NMeFOSA
Draft-4 1633	1633 Shake	Solid	Nonafluoro-3,6-dioxahexanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorononanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorooctanesulfonamide
Draft-4 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633 Shake	Solid	PES
Moisture		Solid	Percent Moisture

Method Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Method	Method Description	Protocol	Laboratory
Draft-4 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-149053-1	SS-78-0-2-102623	Solid	10/26/23 11:15	10/28/23 09:45
410-149053-2	SS-78-2-12-102623	Solid	10/26/23 11:20	10/28/23 09:45
410-149053-3	SS-77-0-2-102623	Solid	10/26/23 11:25	10/28/23 09:45
410-149053-4	SS-77-0-2-102623	Solid	10/26/23 11:30	10/28/23 09:45
410-149053-5	EB-SO-102623	Water	10/26/23 17:45	10/28/23 09:45

Login Sample Receipt Checklist

Client: Taconic Inc

Job Number: 410-149053-1

Login Number: 149053

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

APPENDIX E

PHASE 2B DATA USABILITY SUMMARY REPORTS

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

February 16, 2024

A Jeff Mirarchi, P.E.
TACONIC
136 Coonbrook Rd
Petersburgh, NY 12138

RE: Remedial Investigation/Feasibility Study, Taconic Site, NYSDEC Site No. 442047
Validation of Agricultural Analytical Data, Data Usability Summary Report (DUSR)
Eurofins SDG Nos. 410-134256-1, 410-141095-1, 410-145135-1, and 410-151764-1

Dear Mr. Mirarchi:

Review has been completed for the data packages generated by Eurofins TestAmerica Lancaster that pertain to agricultural samples collected between 07/05/23 and 09/28/23 as part of the Taconic Remedial Investigation/Feasibility Study at Petersburgh, NY. Twenty seven samples and three field duplicates were processed for per- and polyfluoroalkyl substances (PFAS) by USEPA draft method 1633 and eleven samples were processed for PFAS by modified EPA method 537.

Data validation was performed with guidance from the following documents, and in consideration of the specific project method requirements:

- Remedial Investigation/Feasibility Study, Taconic Site, NYSDEC Site No. 442047, Quality Assurance Project Plan (QAPP) of February 28, 2023

The following items were reviewed:

- Data Completeness
- Custody Documentation/Sample Condition
- Holding Times
- Isotopic Dilution and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Correlations
- Field Duplicate Correlations
- Method and Calibration Blanks
- Laboratory Control Samples (LCSs)
- Calibration Standard Responses
- Method Compliance
- Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodologies. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was conducted in compliance with project requirements and with adherence to quality criteria. Sample results are primarily usable either as reported, or with minor qualification. However, a total of twelve analyte data points are rejected due to matrix effects, and numerous sample results are qualified as estimated in value, also due to matrix effects.

Data completeness, accuracy, precision, representativeness, sensitivity, and the analytical method comparability meet project QAPP requirements.

The laboratory modifications to the USEPA method 537 are significant, consistent in many respects to the advances in the available monitoring compounds. Validation actions are based on the QAPP and laboratory standard operating procedures.

Validation data qualifier definitions and sample identification reference lists are attached to this narrative. Also included with this report are laboratory EDDs edited to reflect validation qualifiers/edits.

Chain-of-Custody/Sample Receipt

A discrepancy between the custody form and container entries for the collection date of one sample was resolved at sample receipt.

Field Duplicate Correlations

The blind field duplicate evaluations were performed on Ag-BF1-070723, Ag-Vg7-082923, and Ag-Vg13-082423. The correlations meet validation guidelines.

PFAS by USEPA Draft Method 1633 and Modified EPA Method 537

PFAS compounds are identified by their common acronyms in this report. The report forms reference both the technical names and the acronyms.

Numerous samples and some of the rinse/equipment blanks exhibited outlying isotopic dilution standards (IDS)s associated with various target analytes. In some cases, the samples were reextracted and/or reanalyzed at dilution, at times with improved recoveries. The validation process has involved meticulously selecting the best data for each sample from the provided analyses.

Due to associated IDSs recoveries below 10%, the following results are rejected and not usable:

- PFBA in Ag-Vg2-082523, Ag-Vg3-082423, Ag-Vg5-082423, X3-082423, and Ag-Vg18-082423
- PFTeA in Ag-Eg4-092823
- PFTeA and PFTrA in Ag-Eq1W-111523 and Ag-Eg5-111523

Additionally, nineteen samples and two field duplicates were reported by the laboratory for 4:2-FTS, 6:2-FTS, and 8:2-FTS only from tenfold dilution analyses due to outlying recoveries in associated IDSs during the undiluted analyses. This results in a tenfold increase in reporting limits for those three analytes. For cases where the initial analysis IDS results were elevated, and there was no detection of the associated the corresponding target analyte, and for low IDS recoveries greater than 10%, validation review included adjustment to the lower reporting limit; with results associated with low IDS recoveries qualified as estimated.

Numerous other results for specific analytes in samples are qualified as estimated due to outlying IDS recoveries (above 10%).

Due to outlying recoveries in the associated LCSs, the results for the following associated analytes have been qualified as estimated in the indicated samples:

<u>Affected Samples</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>
Ag-Vg1-082523, Ag-Vg2-082523, Ag-Vg3-082423, Ag-Vg4-082423, Ag-Vg5-082423, Ag-Vg6-082423, Ag-Vg7-082423, Ag-Vg8-082423, and X2-082423	Perfluoro-3-methoxy-propanoic acid	27,14

Matrix spike accuracy and precision evaluations were performed by Method 1633 on Ag-Bf1-070723, Ag-Vg5-082423, Ag-Vg13-082423, and Ag-Eg5-110123, and a laboratory duplicate was performed on Ag-Eg3-092823. PFDoS produced recoveries below 10% in Ag-Eg5-110123, and the result for that analyte in that parent sample has therefore been rejected. Other recoveries and correlations are within validation guidelines, with the exceptions of the following, results for which are qualified as estimated in the indicated parent samples:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>	<u>Outlying %RPD</u>
Ag-Vg5-082423	Perfluoro-3-methoxy-propanoic acid	27,27	
Ag-Vg13-082423	Perfluoro-3-methoxy-propanoic acid	27	110

The laboratory reported Ag-Eg3-092823 with flags that indicate outlying matrix spikes results. Matrix spikes were not processed for that sample.

Blanks show no contamination affecting sample reported results.

Some of the detected analytes exhibited ion ratios that are outside the expected range, often due to interferences. Therefore, the identification and/or quantitative values are not as assured. Those results have been qualified as Estimated Maximum Possible Concentration (EMPC).

<u>Sample ID</u>	<u>Analyte</u>
Ag-Vg1-082523	PFHpS
Ag-Vg1-082523	PFHxS
Ag-Vg18-08242	PFPeA
Ag-Vg19-08242	PFPeA
Ag-Vg2-082523	PFOS
Ag-Vg2-082523	PFPeS
Ag-Vg7-082423	3-Perfluoropropyl propanoic acid

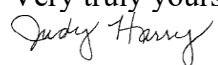
Four samples produced elevated internal standard recoveries in the initial analyses and reanalyses. Associated sample results are non-detect, and reported results are unaffected.

Calibration standard responses are within validation guidelines.

These agricultural samples are reported on an as-received basis in that no correction for moisture content was performed.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Attachments: Validation Data Qualifier Definitions
 Sample Summary Listings
 Qualified Laboratory EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Identification Summary

Sample Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-134256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-134256-1	AG-Sy1-070523	Solid	07/05/23 16:00	07/12/23 09:48
410-134256-2	AG-Eg1-070623	Tissue	07/06/23 13:00	07/12/23 09:48
410-134256-3	AG-Eg2-070623	Tissue	07/06/23 13:30	07/12/23 09:48
410-134256-4	Ag-Bf1-070723	Tissue	07/07/23 10:00	07/12/23 09:48
410-134256-5	X1-070723	Tissue	07/07/23 00:00	07/12/23 09:48

Sample Summary

Client: Taconic Inc
Project/Site: Phase 2b RI

Job ID: 410-141095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-141095-1	Ag-Fr1-082523	Food & Feed	08/25/23 10:30	08/31/23 10:15
410-141095-2	Ag-Fr2-082523	Food & Feed	08/25/23 10:30	08/31/23 10:15
410-141095-3	Ag-Vg1-082523	Tissue	08/25/23 10:30	08/31/23 10:15
410-141095-4	Ag-Vg2-082523	Tissue	08/25/23 10:15	08/31/23 10:15
410-141095-5	Ag-Fr3-082523	Food & Feed	08/25/23 10:00	08/31/23 10:15
410-141095-6	Ag-Vg3-082423	Tissue	08/24/23 13:30	08/31/23 10:15
410-141095-7	Ag-Vg4-082423	Tissue	08/24/23 13:30	08/31/23 10:15
410-141095-8	Ag-Vg5-082423	Tissue	08/24/23 13:35	08/31/23 10:15
410-141095-9	Ag-Vg6-082423	Tissue	08/24/23 13:40	08/31/23 10:15
410-141095-10	Ag-Vg7-082423	Tissue	08/24/23 13:45	08/31/23 10:15
410-141095-11	Ag-Vg8-082423	Tissue	08/24/23 13:50	08/31/23 10:15
410-141095-12	Ag-Fr3-082423	Food & Feed	08/24/23 13:55	08/31/23 10:15
410-141095-13	X2-082423	Tissue	08/24/23 00:00	08/31/23 10:15
410-141095-14	Ag-Fr4-082423	Food & Feed	08/24/23 10:30	08/31/23 10:15
410-141095-15	Ag-Fr5-082423	Food & Feed	08/24/23 10:35	08/31/23 10:15
410-141095-16	Ag-Fr6-082423	Food & Feed	08/24/23 10:40	08/31/23 10:15
410-141095-17	Ag-Vg9-082423	Tissue	08/24/23 10:15	08/31/23 10:15
410-141095-18	Ag-Vg10-082423	Tissue	08/24/23 15:00	08/31/23 10:15
410-141095-19	Ag-Vg11-082423	Tissue	08/24/23 15:05	08/31/23 10:15
410-141095-20	Ag-Vg12-082423	Tissue	08/24/23 15:10	08/31/23 10:15
410-141095-21	Ag-Vg13-082423	Tissue	08/24/23 15:15	08/31/23 10:15
410-141095-22	Ag-Vg14-082423	Tissue	08/24/23 15:20	08/31/23 10:15
410-141095-23	Ag-Vg15-082423	Tissue	08/24/23 15:25	08/31/23 10:15
410-141095-24	Ag-Fr7-082423	Food & Feed	08/24/23 15:30	08/31/23 10:15
410-141095-25	Ag-Vg16-082423	Tissue	08/24/23 15:35	08/31/23 10:15
410-141095-26	Ag-Vg17-082423	Tissue	08/24/23 15:40	08/31/23 10:15
410-141095-27	X3-082423	Tissue	08/24/23 00:00	08/31/23 10:15
410-141095-28	Ag-Vg18-082423	Tissue	08/24/23 13:00	08/31/23 10:15
410-141095-29	Ag-Fr8-082423	Food & Feed	08/24/23 13:15	08/31/23 10:15
410-141095-30	Ag-Vg19-082423	Tissue	08/24/23 13:10	08/31/23 10:15

Sample Summary

Client: Taconic Inc
Project/Site: Phase 2B RI

Job ID: 410-145135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-145135-1	Ag-Sy2-09823	Food & Feed	09/28/23 09:25	09/29/23 09:45
410-145135-2	Ag-Eg3-092823	Tissue	09/28/23 06:30	09/29/23 09:45
410-145135-3	Ag-Eg4-092823	Tissue	09/28/23 09:40	09/29/23 09:45

Sample Summary

Client: Taconic Inc
Project/Site: PHASE 2b RI

Job ID: 410-151764-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-151764-1	Ag-Eg1-111523	Tissue	11/15/23 10:00	11/17/23 09:57
410-151764-2	Ag-Eg1W-111523	Tissue	11/15/23 10:00	11/17/23 09:57
410-151764-3	Ag-Eg5-110123	Tissue	11/01/23 14:15	11/17/23 09:57

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

February 18, 2024

A Jeff Mirarchi, P.E.

TACONIC

136 Coonbrook Rd

Petersburgh, NY 12138

RE: Remedial Investigation/Feasibility Study, Taconic Site, NYSDEC Site No. 442047
Validation of Soil Analytical Data, Data Usability Summary Report (DUSR)
Eurofins SDG Nos. 410-148678-1, 410-148925-1, 410-149053-1, 410-149055, and
410-149962-1

Dear Mr. Mirarchi:

Review has been completed for the data packages generated by Eurofins TestAmerica Lancaster that pertain to soil samples collected between 10/24/23 and 11/01/23 as part of the Taconic Remedial Investigation/Feasibility Study at Petersburgh. Twenty nine samples, one field duplicate, and four equipment blanks were processed for per- and polyfluoroalkyl substances (PFAS) by USEPA draft method 1633.

Data validation was performed with guidance from the following documents, and in consideration of the specific project method requirements:

- Remedial Investigation/Feasibility Study, Taconic Site, NYSDEC Site No. 442047, Quality Assurance Project Plan (QAPP) of February 28, 2023

The following items were reviewed:

- Data Completeness
- Custody Documentation/Sample Condition
- Holding Times
- Isotopic Dilution and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Correlations
- Field Duplicate Correlations
- Method, Calibration, and Equipment Blanks
- Laboratory Control Samples (LCSs)
- Calibration Standard Responses
- Method Compliance
- Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodologies. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was conducted in compliance with project requirements and with adherence to quality criteria. Sample results are usable either as reported, or with minor qualification.

Data completeness, accuracy, precision, representativeness, sensitivity, and the analytical method comparability meet project QAPP requirements.

Validation data qualifier definitions and sample identification reference lists are attached to this narrative. Also included with this report are laboratory EDDs edited to reflect validation qualifiers/edits.

Chain-of-Custody/Sample Receipt

Discrepancies in container count and equipment blank matrix were resolved at sample receipt. A discrepancy between custody and container entries for sample identification was resolved following sample receipt.

Field Duplicate Correlations

The blind field duplicate evaluation was performed on SS-76-0-2-102523. The correlations meet validation guidelines.

Although a single field duplicate does not meet the required frequency, this report covers a subset of data, and the frequency requirement is evaluated over the entire soil sampling event. The remaining field duplicates will be discussed in a separate validation report.

PFAS by USEPA Draft Method 1633

PFAS compounds are identified by their common acronyms in this report. The report forms reference both the technical names and the acronyms.

Due to presence in the associated blanks, the following results are considered external contamination and edited to non-detection at the reporting limit: PFDA and PFDoA in SS-76-2-12-102523.

Certain of the samples were reported by the laboratory for 4:2-FTS, 6:2-FTS, and 8:2-FTS only from tenfold dilution analyses due to outlying recoveries in associated IDSs during the undiluted analyses. The initial analysis IDS results were elevated, and there was no detection of the associated the corresponding target analyte; validation review included adjustment to the lower reporting limit, and no qualification was required.

Matrix spike accuracy and precision evaluations were performed on SS-74-0-2-102423, SS-83-2-12-102423, and SS-76-0-2-102523, and a laboratory duplicate was performed on SS-73-2-12-102423. Recoveries and correlations are within validation guidelines, with the exceptions of the following, results for which are qualified as estimated in the indicated parent samples:

Parent Sample	Analyte	Outlying % Recoveries
SS-74-0-2-102423	Perfluorononanoic acid	159,153
	Perfluorooctanoic acid	155,156
SS-76-0-2-102523	Perfluorononanoic acid	161,152

The LCS associated with samples reported in SDG 410-148678-1 produced an elevated recovery (164%, > 150%) for PFNA. The low level LCS (LLCS) processed with those samples produced a compliant recovery for that analyte. Detected results for all associated samples except SS-83-2-12-102423 are at concentrations within a factor of five of the level of the LLCS, and have been evaluated relative to that control. SS-83-2-12 is evaluated relative to the outlying LCS recovery, and its detected PFNA value has been qualified as having a high bias.

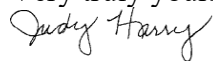
Some of the detected analytes exhibited ion ratios that are outside the expected range, often due to interferences. Therefore, the identification and/or quantitative values are not as assured. Those results have been qualified as Estimated Maximum Possible Concentration (EMPC). They are the following:

Sample ID	Analyte
SS-66-0-2-110123	PFHxA
SS-67-0-2-110123	PFPeA
SS-67-2-12-110123	PFPeA
SS-77-2-12-102623	PFDoDA
SS-78-0-2-102623	PFNA

Isotopic dilution standards (IDS)s and internal standards show recoveries within validation guidelines. Calibration standard responses are within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Attachments: Validation Data Qualifier Definitions
 Sample Summary Listings
 Qualified Laboratory EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Identification Summary

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148678-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-148678-1	SS-79-0-2-102423	Solid	10/24/23 10:45	10/26/23 10:10
410-148678-2	SS-79-2-12-102423	Solid	10/24/23 10:50	10/26/23 10:10
410-148678-3	SS-80-0-2-102423	Solid	10/24/23 10:55	10/26/23 10:10
410-148678-4	SS-80-2-12-102423	Solid	10/24/23 11:00	10/26/23 10:10
410-148678-5	SS-81-0-2-102423	Solid	10/24/23 11:05	10/26/23 10:10
410-148678-6	SS-81-2-12-102423	Solid	10/24/23 11:10	10/26/23 10:10
410-148678-7	SS-82-0-2-102423	Solid	10/24/23 12:00	10/26/23 10:10
410-148678-8	SS-82-2-12-102423	Solid	10/24/23 12:05	10/26/23 10:10
410-148678-9	SS-83-0-2-102423	Solid	10/24/23 12:10	10/26/23 10:10
410-148678-10	SS-83-2-12-102423	Solid	10/24/23 12:15	10/26/23 10:10
410-148678-11	SS-84-0-2-102423	Solid	10/24/23 13:25	10/26/23 10:10
410-148678-12	SS-84-2-12-102423	Solid	10/24/23 13:30	10/26/23 10:10
410-148678-13	SS-73-0-2-102423	Solid	10/24/23 14:50	10/26/23 10:10
410-148678-14	SS-73-2-12-102423	Solid	10/24/23 14:55	10/26/23 10:10
410-148678-15	SS-74-0-2-102423	Solid	10/24/23 15:00	10/26/23 10:10
410-148678-16	EB-SS-102423	Water	10/24/23 18:30	10/26/23 10:10

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-148925-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-148925-1	SS-75-0-2-102523	Solid	10/25/23 13:30	10/27/23 09:54
410-148925-2	SS-75-2-12-102523	Solid	10/25/23 13:35	10/27/23 09:54
410-148925-3	SS-76-0-2-102523	Solid	10/25/23 14:10	10/27/23 09:54
410-148925-4	SS-FD-102523	Solid	10/25/23 14:15	10/27/23 09:54
410-148925-5	SS-76-2-12-102523	Solid	10/25/23 14:20	10/27/23 09:54
410-148925-6	EB-SS-102523	Water	10/25/23 17:15	10/27/23 09:54

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-149053-1	SS-78-0-2-102623	Solid	10/26/23 11:15	10/28/23 09:45
410-149053-2	SS-78-2-12-102623	Solid	10/26/23 11:20	10/28/23 09:45
410-149053-3	SS-77-0-2-102623	Solid	10/26/23 11:25	10/28/23 09:45
410-149053-4	SS-77-2-12-102623	Solid	10/26/23 11:30	10/28/23 09:45
410-149053-5	EB-SO-102623	Water	10/26/23 17:45	10/28/23 09:45

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149055-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-149055-1	SS-71-0-2-102723	Solid	10/27/23 11:00	10/28/23 09:45
410-149055-2	SS-71-2-12-102723	Solid	10/27/23 11:05	10/28/23 09:45
410-149055-3	EB-SO-102723	Water	10/27/23 11:20	10/28/23 09:45

Sample Summary

Client: Taconic Inc
Project/Site: Taconic - Data Gap

Job ID: 410-149962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-149962-1	SS-66-0-2-110123	Solid	11/01/23 13:50	11/03/23 09:45
410-149962-2	SS-66-2-12-110123	Solid	11/01/23 13:55	11/03/23 09:45
410-149962-3	SS-67-0-2-110123	Solid	11/01/23 15:00	11/03/23 09:45
410-149962-4	SS-67-2-12-110123	Solid	11/01/23 15:05	11/03/23 09:45
410-149962-5	EB-SS-110123	Water	11/01/23 17:00	11/03/23 09:45