

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 1 of 7

Notice: Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 2 of 7

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Nelson	Denice		Tyco Fire Products LP		
Mailing Address			City	State	ZIP Code
2700 Industrial Parkway South			Marinette	WI	54143
Phone # (include area code)	Fax # (include area code)		Email		

The requester listed above: (select all that apply)

- ☒ Is currently the owner ☐ Is considering selling the Property
- ☐ Is renting or leasing the Property ☐ Is considering acquiring the Property
- ☐ Is a lender with a mortgagee interest in the Property
- ☐ Other. Explain the status of the Property with respect to the applicant:

Contact Information (to be contacted with questions about this request)

☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Johnson	Shauna		Arcadis		
Mailing Address			City	State	ZIP Code
126 N Jefferson Street, Suite 400			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(312) 575-3732			shauna.johnson@arcadis.com		

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Johnson	Shauna		Arcadis		
Mailing Address			City	State	ZIP Code
126 N Jefferson Street, Suite 400			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(312) 575-3732			shauna.johnson@arcadis.com		

Section 2. Property Information

Property Name			FID No. (if known)		
Tyco Fire Technology Center - PFCs			438005590		
BRRTS No. (if known)			Parcel Identification Number		
0238580694					
Street Address			City	State	ZIP Code
2700 Industrial Parkway South			Marinette	WI	54143
County	Municipality where the Property is located		Property is composed of:		Property Size Acres
Marinette	☒ City ☐ Town ☐ Village of Marinette		☐ Single tax parcel ☐ Multiple tax parcels		380

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 3 of 7

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

☒ No ☐ Yes

Date requested by: _____

Reason: _____

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

☒ No. **Include the fee that is required for your request in Section 3, 4 or 5.**

☐ Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;

Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- ☐ No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - Include a fee of \$350. Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- ☐ Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- ☐ Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- ☐ Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- ☐ Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- ☐ Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- ☐ Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- ☐ Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- ☐ Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- ☐ Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- ☐ Hazardous Waste Determination - **Include a fee of \$700.**
- ☒ Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- ☐ Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
 - ☐ Include a fee of \$300 for sites with residual soil contamination; and
 - ☐ Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. [Numbers in brackets are for DNR Use]

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 4 of 7

☐ "Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the real Property, and/or the personal Property and fixtures;
- (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
- (3) the date the environmental assessment was conducted by the lender;
- (4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
- (5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
- (6) a copy of the Property deed with the correct legal description; and,
- (7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
- (8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292.21(1)(c)2., h.-i., Wis. Stats.:
 - h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
 - i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

☐ "Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the Property;
- (2) the date of Property acquisition by the representative;
- (3) the means by which the Property was acquired;
- (4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;
- (5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and
- (6) a copy of the Property deed with the correct legal description.

☐ Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

- ☐ hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];
- ☐ Perceived environmental contamination - [649];
- ☐ hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or
- ☐ solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of \$700, a summary of the environmental liability clarification being requested, and the following:**

- (1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).
- (2) current and proposed ownership status of the Property;
- (3) date and means by which the Property was acquired by the LGU, where applicable;
- (4) a map and the ¼, ¼ section location of the Property;
- (5) summary of current uses of the Property;
- (6) intended or potential use(s) of the Property;
- (7) descriptions of other investigations that have taken place on the Property; and
- (8) (for solid waste clarifications) a summary of the license history of the facility.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 5 of 7

Section 4. Request for Liability Clarification (cont.)

- ☐ Lease liability clarification - s. 292.55, Wis. Stats. [646]
- ❖ **Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:**
 - (1) a copy of the proposed lease;
 - (2) the name of the current owner of the Property and the person who will lease the Property;
 - (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
 - (4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
 - (5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
 - (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

- ❖ **Include a fee of \$700 and an adequate summary of relevant environmental work to date.**
- ☐ No Action Required (NAR) - NR 716.05, [682]
- ❖ **Include a fee of \$700.**
- Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.
- ☐ Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]
- ❖ **Include a fee of \$700.**
- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/Igu.html#tabx4.

- ☐ Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]
- ❖ **Include a fee of \$700, and the information listed below:**
 - (1) Phase I and II Environmental Site Assessment Reports,
 - (2) a copy of the Property deed with the correct legal description.
- ☐ Agreement for assignment of tax foreclosure judgement - s. 75.106, Wis. Stats. [666]
- ❖ **Include a fee of \$700, and the information listed below:**
 - (1) Phase I and II Environmental Site Assessment Reports,
 - (2) a copy of the Property deed with the correct legal description.
- ☐ Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]
- ❖ **Include a fee of \$1400, and the information listed below:**
 - (1) a draft schedule for remediation; and,
 - (2) the name, mailing address, phone and email for each party to the agreement.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 6 of 7

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

☐ Phase I Environmental Site Assessment Report - Date: _____

☐ Phase II Environmental Site Assessment Report - Date: _____

☐ Legal Description of Property (required for all liability requests and specialized agreements)

☐ Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

☐ Groundwater ☐ Soil ☐ Sediment ☐ Other medium - Describe: _____

Date of Collection: _____

☐ A copy of the closure letter and submittal materials

☐ Draft tax cancellation agreement

☐ Draft agreement for assignment of tax foreclosure judgment

☒ Other report(s) or information - Describe: Exemption Request for Beneficial Reuse of Soils

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

☐ Yes - Date (if known): _____

☐ No

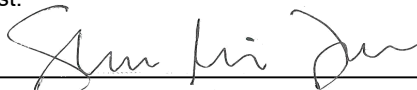
Note: The Notification for Hazardous Substance Discharge Form - Non-Emergency Only (Form 4400-225) is accessible through the RR Program Submittal Portal application. Directions for using the form and the Submittal Portal application are available on the [Submittal Portal web page](#).

Section 7. Certification by the Person who completed this form

☐ I am the person submitting this request (requester)

☒ I prepared this request for: Denice Nelson
Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Signature 

Date Signed 2/7/2025

Senior Environmental Specialist
Title

(312) 575-3732
Telephone Number (include area code)

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 10/21)

Page 7 of 7

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a [DNR regional brownfields specialist](#) with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

DNR NORTHERN REGION

Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION

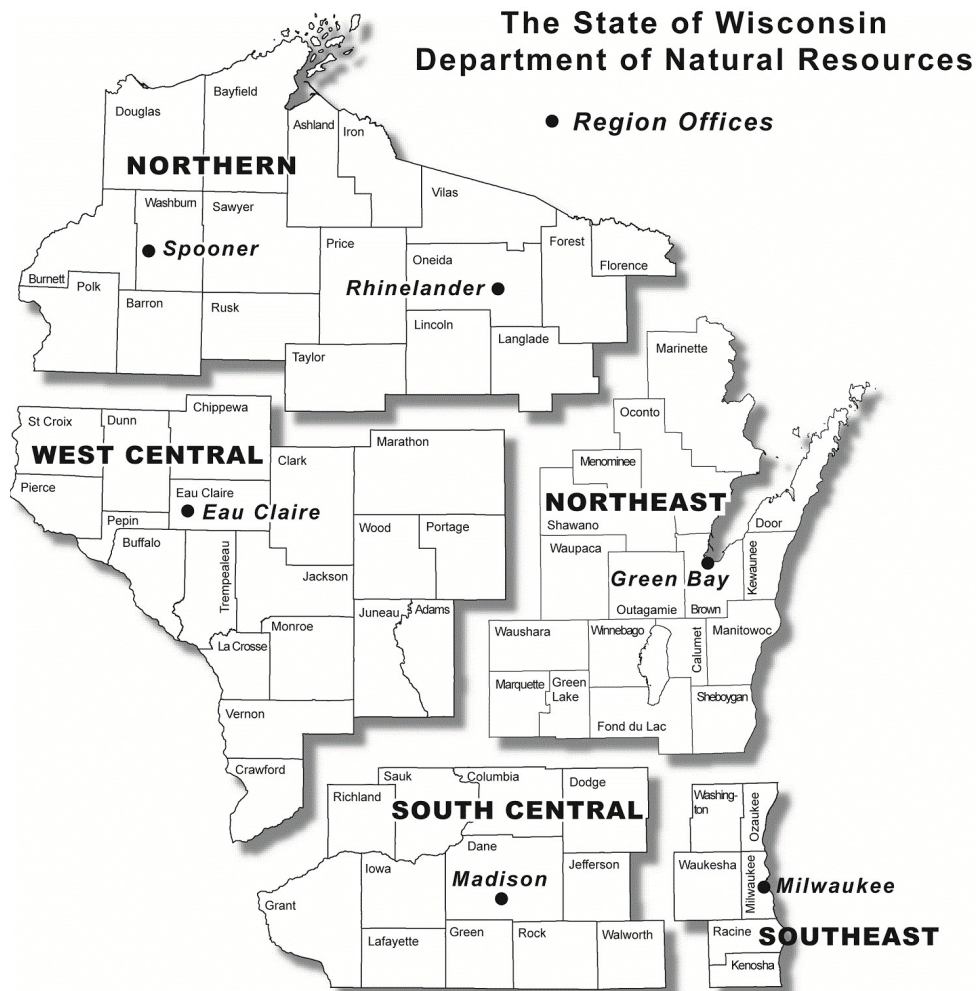
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION

Attn: RR Program Assistant
Milwaukee DNR Office
1027 West St. Paul Ave
Milwaukee WI 53233

DNR WEST CENTRAL REGION

Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? ☐ Yes ☐ No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

Alyssa Sellwood
Complex Sites Project Manager, Remediation and Redevelopment Program
State of Wisconsin Department of Natural Resources
101 South Webster Street
Box 7921
Madison, WI 53707-7921

Arcadis U.S., Inc.
790 North Milwaukee Street
Suite 100A
Milwaukee, WI 53202
United States
Phone: 414 276 7742
Fax: 414 276 7603
www.arcadis.com

Date: February 7, 2025
Our Ref: 30202232
Subject: Exemption Request for Beneficial Reuse of Soils
BRRTS #: 02-38-580694 (PFAS), 03-38-001345 (VOCs)

Dear Ms. Sellwood,

On behalf of Tyco Fire products LP (Tyco), Arcadis prepared this NR 718.12 exemption request for beneficial reuse of on-site material at the Tyco Fire Technology Center (FTC) located at 2700 Industrial Parkway South and an adjacent Tyco-owned property on Pierce Avenue in Marinette, Wisconsin (the Property) (**Figure 1**). The FTC is a fire suppressant training, testing, and research and development (R&D) facility, occupying approximately 380 acres in southern Marinette, Wisconsin. The Property is the source of PFAS and VOC impacts currently being managed under BRRTS 02-38-580694 and BRRTS 03-38-001345 (the Sites). The entire Property is owned by Tyco Fire Products LP. This submittal specifically seeks Wisconsin Department of Natural Resources (WDNR) approval to reuse soil on-Property from where it was originally excavated based on pre-characterization soil sampling results collected in December 2024 at the planned excavation locations. **Figure 2** indicates the locations of work to be completed at the FTC and at the Pierce Avenue Property, where several offsite extraction wells are located.

Activities Covered

Activities covered under this request include soils and muds generated as part of GETS Optimization activities. Soils related to these activities that do not meet beneficial reuse requirements based on initial pre-characterization activities and described herein will be temporarily stockpiled and managed in accordance with the Materials Management Plan (MMP) (Arcadis 2024¹).

Soil Sampling Criteria

To support the exemption request, pre-characterization soil samples were collected for each intended excavation area in December 2024 to determine management and disposal options. All planned excavation areas were sampled prior to the commencement of construction activities using a Geoprobe drill rig to collect pre-characterization soil samples for each area proposed for beneficial reuse during construction activities.

Soil samples were analyzed for VOCs and PFAS as the identified contaminants present at the Site. To qualify for reuse, soil samples must meet the criteria established in the 2021 MMP (Geosyntec 2021), with perfluorooctanoic acid (PFOA) concentrations below 5.0 ug/kg, perfluorooctane sulfonic acid (PFOS) concentrations below 0.9

¹ Arcadis. 2024. Materials Management Plan. Tyco Fire Products LP. Tyco Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin. BRRTS No. 02-38-580694. March 5.

ug/kg, and VOC residual contaminant levels (RCLs) in accordance with ch. NR 720, Wis. Admin. Code (soil cleanup standards).

Pre-characterization soil sampling occurred on December 18 and 19, 2024. Pre-characterization soil samples were collected from 21 proposed excavation locations, and results are presented in **Table 1**. Lab reports are presented in **Attachment 1**. All locations except the duplicate sample (DUP-01) collected from GETSWC-17 had no detections of VOCs. The only VOC detection above the laboratory reporting limit, ethylbenzene, was below WDNR soil cleanup standards. Thirteen soil samples are below the criteria requirements for beneficial reuse for PFOS and PFOA and with approval, the excavated soil will be reused in the same excavation from which it came. Soil approved for reuse will be temporarily stockpiled adjacent to the excavation area as described below and will be reused to backfill the excavation from which it came without further sampling.

Eight soil samples were above the criteria for beneficial reuse and will be removed from their excavations and transported to be temporarily stockpiled at the FTC within the previously approved staging area for further waste characterization sampling prior to potential disposal or beneficial reuse, in accordance with the 2024 Materials Management Plan (Arcadis). Less than 1,000 CY of soil is planned to be transported from the eight planned excavation areas to the FTC soil staging area.

Stockpile Management

Soils approved for beneficial reuse will be temporarily stockpiled adjacent to each excavation area (shown on **Figures 3.1 and 3.2**) until the excavation is backfilled with the soil. Each excavation area is intended to have less than 100 cubic yards of excavated soil. Temporary stockpiles will conform to the following best practices:

- The temporary stockpile will not be stored for more than 15 days.
- Soil will be temporarily stockpiled immediately adjacent to the excavation on the ground surface, and does not need to be placed on an impervious base.
- Surface water contact shall be prevented using stormwater management best practices, such as silt fence and silt sock, to control surface water movement.
- Plastic sheeting will be used to cover temporary stockpiles overnight and during rain events to prevent soil runoff from precipitation.

Work at or associated with the Property will involve the installation of five groundwater extraction wells and their accompanying horizontally drilled conveyance piping. All water conveyance pipelines and most electrical and communications conduit piping will be installed via directional drilling to reduce surface level disturbance. Any excess drilling mud will be handled as outlined in the existing approved MMP (Arcadis 2024).

Process for Project-Specific Approvals

All soils pre-characterized for beneficial reuse at the excavation will be considered approved with WDNR's approval of this plan.

All onsite temporarily stockpiled soils and muds and groundwater from dewatering will be managed in accordance with the existing approved MMP (Arcadis 2024).

The following documentation will be submitted to the WDNR via email within 30 days of completion of the material management activities:

Alyssa Sellwood
Wisconsin Department of Natural Resources
February 7, 2025

- Details of how the material was managed prior to placement
- Confirmation of where the material was placed
- Photographs of the final location of the soil approved for placement

Closing

If you have any questions regarding this exemption request, please feel free to contact me at either of the numbers listed below.

Sincerely,
Arcadis U.S., Inc.



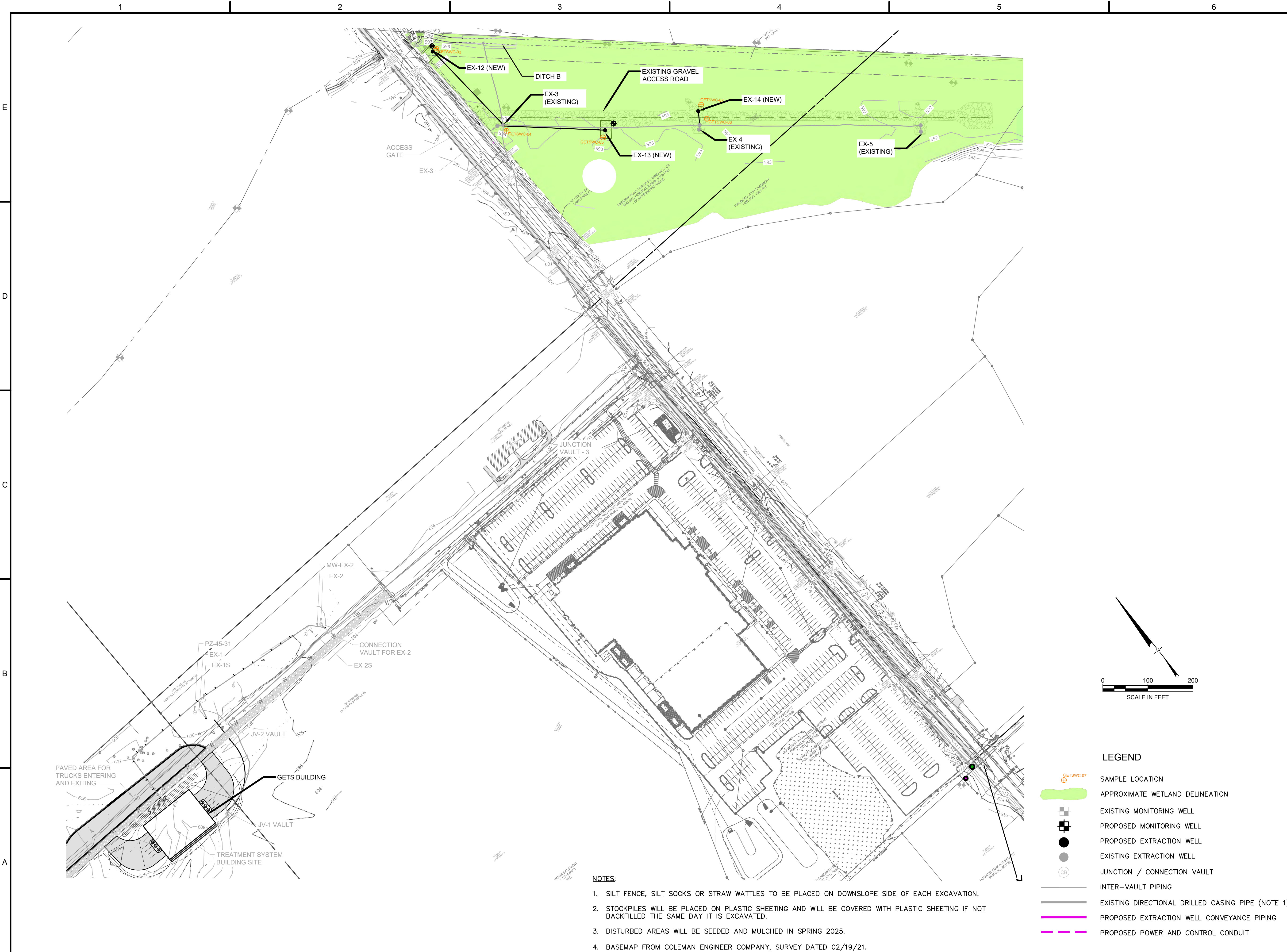
Jim Ziska, PE
Principal Engineer

Email: James.ziska@arcadis.com
Direct Line: 815.302.9052

CC. Denice Nelson, Tyco Fire Products LP

Enclosures:

Table 1 – Pre-Characterization Soil Sampling
Figure 1 – Site Location and Site Boundary Map
Figure 2 – Excavated Soil Planned Reuse Area
Figure 3.1 – Sample Locations Pierce Avenue Property
Figure 3.2 – Sample Locations FTC Property
Attachment 1 – Laboratory Reports



LEGAL ENTITY:
ARCADIS U.S., INC.

CONSULTANTS

SEALS

MARINETTE, WI
TYCO FTC SITE

GROUNDWATER EXTRACTION
AND TREATMENT SYSTEM
EX-12, EX-13 AND EX-14
SUPPLEMENTAL WELL
INSTALLATION

CLIENT PROJ. NO.: 30232819

REVISIONS			

NO.	DATE	ISSUED FOR	BY
COPYRIGHT: ARCADIS U.S., INC. 2023			

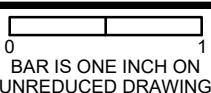
PROJECT STATUS: PRELIMINARY

PROJECT NO.:	30232819
DATE:	SEPTEMBER 2024
DESIGNED BY:	C. LUTZ
DRAWN BY:	C. ELLING
CHECKED BY:	A. FULLER

SHEET TITLE
CIVIL

SAMPLE LOCATIONS
PIERCE AVENUE
PROPERTY

SCALE:
AS SHOWN



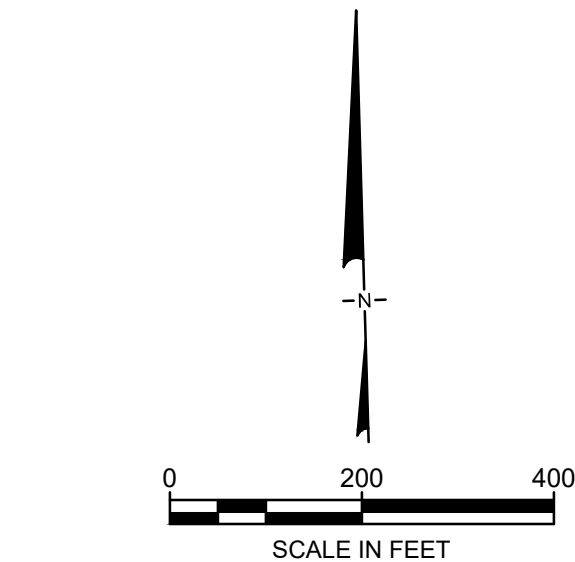
DRAWING NO.:

3.1



NOTES

1. SILT FENCE, SILT SOCKS OR STRAW WATTLES TO BE PLACED ON DOWNSLOPE SIDE OF EACH EXCAVATION.
2. STOCKPILES WILL BE PLACED ON PLASTIC SHEETING AND WILL BE COVERED WITH PLASTIC SHEETING IF NOT BACKFILLED THE SAME DAY IT IS EXCAVATED.
3. DISTURBED AREAS WILL BE SEEDED AND MULCHED IN SPRING 2025.
4. BASEMAP FROM COLEMAN ENGINEERING COMPANY, SURVEY DATED 02/19/21 AND 07/18/24.



LEGEND

- | | |
|---|--|
|  | SAMPLE LOCATION |
|  | APPROXIMATE WETLAND DELINEATION |
|  | EXISTING MONITORING WELL |
|  | PROPOSED MONITORING WELL |
|  | PROPOSED EXTRACTION WELL |
|  | EXISTING EXTRACTION WELL |
|  | PROPOSED BELOW-GRADE UTILITY
INSTALLATION ROUTE |
|  | FENCE LINE BOUNDARY |



LEGAL ENTITY:
ARCADIS U.S., INC

CONSULTANTS

SEALS

MARINETTE, WI
TYCO FTC SITE

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM EX-10 AND EX-11 SUPPLEMENTAL WELL INSTALLATION

CLIENT PROJ. NO.: 30202847

[illegible]

NO.	DATE	ISSUED FOR	BY
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2023

PROJECT STATUS: PRELIMINARY

PROJECT NO.: 30202847

DATE: NOVEMBER 2024

DESIGNED BY: S. TEDESCO

DRAWN BY: C. ELLING

CHECKED BY: A. FULLER

SHEET TITLE

CIVIL

SAMPLE LOCATIONS

FTC PROPERTY

SCALE:
AS SHOWN

AS SHOWN

DRAWING NO.:

3.2

Analyte	Screening	CAS	units	Location		GETSWC-03	GETSWC-04	GETSWC-05	GETSWC-06	GETSWC-07	GETSWC-08	GETSWC-09	GETSWC-10	GETSWC-11	GETSWC-12	GETSWC-13	GETSWC-14	GETSWC-15	GETSWC-16	GETSWC-17		GETSWC-18	GETSWC-19	GETSWC-20	GETSWC-21	GETSWC-22	GETSWC-23	
				GETSWC-03-121824	DUP-02-121824	GETSWC-04-121824	GETSWC-05-121824	GETSWC-06-121824	GETSWC-07-121824	GETSWC-08-121824	GETSWC-09-121824	GETSWC-10-121824	GETSWC-11-121824	GETSWC-12-121824	GETSWC-13-121824	GETSWC-14-121824	GETSWC-15-121824	GETSWC-16-121824	GETSWC-17-121824	DUP-01-121824	GETSWC-18-121824	GETSWC-19-121824	GETSWC-20-121824	GETSWC-21-121824	GETSWC-22-121824	GETSWC-23-121824		
				N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
				Date		12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024	12/18/2024
GenChem				Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result		
Fractional Organic Carbon				ARC-FOG	%	21	22	23	34	12	0.80	1.5	0.50	0.82	0.61	1.2	0.24	0.95	0.20	0.27	0.064	0.19	0.063	0.13	0.13	0.18	0.061	< 0.058 U
PFAS																												
Perfluorooctanoic acid (PFOA)	5	335-67-1	ug/kg	15	28	46	1.4	< 0.48 U	0.12 J	7.6	0.62	0.75	3.3	4.7	0.28	2.6	0.77	0.17 J	3.1	4.9	0.42	0.072 J	0.29	0.099 J	0.41	0.22		
Perfluorooctane sulfonic acid (PFOS)	0.9	1763-23-1	ug/kg	1.1	2.1	5.4	0.22 JI	< 0.48 U	< 0.24 U	4.7	0.067 J	0.21 J	0.22 J	3.6	1.6	16	0.93	0.68	2.0	5.2	0.41	0.16 J	0.88 J	0.10 J	< 0.22 U	0.096 J		
Perfluorobutanoic acid (PFBA)		375-22-4	ug/kg	1.9	2.7		< 1.9 U	< 1.2 U	< 0.60 U	0.21 J	< 0.55 U	< 0.53 U	0.21 J	< 0.59 U	0.21 J	< 0.55 U	0.26 J	< 0.57 U	0.41 J	0.25 J	0.35 J	< 0.58 U	< 0.53 U	< 0.54 U	< 0.54 U			
Perfluoropentanoic acid (PFPeA)		2706-90-3	ug/kg	9.7	14	32	0.59 J	0.12 J	0.096 J	1.2	0.21 J	0.15 J	0.24	0.50	0.27	0.92	0.41	0.77	0.81	1.1	0.61	0.067 J	0.13 J	0.11 J	0.23	0.14 J		
Perfluorohexanoic acid (PFHxA)		307-24-4	ug/kg	7.5	8.4	16	0.44 J	< 0.48 U	< 0.24 U	0.82	0.21 J	0.12 J	0.34	0.44	0.11 J	0.57	0.21 J	0.32	0.94	1.3	0.33	< 0.22 U	0.074 J	< 0.21 U	0.16 J	0.094 J		
Perfluoroheptanoic acid (PFHpA)		375-85-9	ug/kg	3.1	4.4	19	0.26 J	< 0.48 U	< 0.24 U	1.0	0.16 J	0.18 J	0.36	0.91	0.12 J	1.0	0.74	0.39	1.2	1.8	0.39	< 0.22 U	0.089 J	0.097 J	0.17 J	0.16 J		
Perfluorononanoic acid (PFNA)		375-95-1	ug/kg	1.2	2.4	23	< 0.78 U	< 0.48 U	< 0.24 U	3.2	< 0.22 U	0.064 J	0.25	3.6	0.44	2.3	0.76	0.70	10	8.7	0.078 JI	0.082 J	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorodecanoic acid (PFDA)		335-76-2	ug/kg	< 0.60 U	< 0.67 U	0.45 J	< 0.78 U	< 0.48 U	< 0.24 U	1.1	< 0.22 U	< 0.21 U	0.17 J	2.7	< 0.22 U	1.9	0.17 J	0.064 J	6.2	5.2	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluoroundecanoic acid (PFUdA)		2058-94-8	ug/kg	< 0.60 U	< 0.67 U	0.26 J	< 0.78 U	< 0.48 U	< 0.24 U	1.3	< 0.22 U	< 0.21 U	< 0.24 U	0.81	< 0.22 U	1.7	< 0.23 U	< 0.24 U	5.2	2.3	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorododecanoic acid (PFDoA)		307-55-1	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	0.85	< 0.22 U	< 0.21 U	< 0.24 U	0.15 J	< 0.22 U	0.25	< 0.23 U	< 0.24 U	< 0.23 U	0.069 J	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorotridecanoic acid (PFTrDA)		72629-94-8	ug/kg	< 0.60 UF1	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	1.3	< 0.22 U	< 0.21 U	< 0.24 U	0.25	< 0.22 U	0.42	< 0.23 U	< 0.24 U	0.11 J	0.481	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorotetradecanoic acid (PFTeDA)		376-06-7	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	0.35	< 0.22 U	< 0.21 U	< 0.24 U	0.076 JI	< 0.22 U	0.11 J	< 0.23 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorohexadecanoic acid (PFHxDA)		67905-19-5	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	0.064 J	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorooctadecanoic acid (PFODa)		16517-11-6	ug/kg	< 0.60 UF1	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	< 0.22 U	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U	
Perfluorobutane sulfonic acid (PFBS)		375-73-5	ug/kg	0.28 J	0.19 J	< 0.61 U	< 0.78 U	0.33 J	0.065 J	< 0.22 U	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	< 0.23 U	< 0.23 U	< 0.24 U	0.27	0.060 J	< 0.22 U	< 0.22 U	< 0.23 U	1.1	0.066 J	0.081 J		
Perfluoropentane sulfonic acid (PFPeSA)		2706-91-4	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	< 0.22 U	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U		
Perfluorohexane sulfonic acid (PFHxS)		355-46-4	ug/kg	< 0.60 U	< 0.67 U	2.5 J	< 0.78 U	< 0.48 U	< 0.24 U	< 0.22 U	0.061 J	< 0.21 U	0.29	0.42 J	< 0.22 U	0.53	0.12 J	< 0.24 U	2.6	6.1	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U	< 0.22 U	
Perfluorohexane sulfonic acid (PFHxS)		375-92-8	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	0.086 J	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	0.083 J	< 0.23 U	< 0.24 U	< 0.23 U	0.11 J	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U	< 0.22 U	
Perfluorononane sulfonic acid (PFNS)		68259-12-1	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	< 0.22 U	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.22 U	< 0.22 U	< 0.23 U	< 0.21 U	< 0.22 U	< 0.22 U	< 0.22 U	
Perfluorodecane sulfonic acid (PFDS)		335-77-3	ug/kg	< 0.60 U	< 0.67 U	< 0.61 U	< 0.78 U	< 0.48 U	< 0.24 U	< 0.22 U	< 0.22 U	< 0.21 U	< 0.24 U	< 0.23 U	< 0.22 U	0.077 J	< 0.23 U	< 0.24 U	< 0.23 U	< 0.24 U</								



ANALYTICAL REPORT

PREPARED FOR

Attn: Lisa Rutkowski
Arcadis US Inc.
790 North Milwaukee Street, Suite 100A
Milwaukee, Wisconsin 53202

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JOB DESCRIPTION

Marinette, WI 30248998.4.3 GETS

JOB NUMBER

500-261951-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = $3.33 \times \text{LOD}$ as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	84
Isotope Dilution Summary	86
QC Sample Results	91
QC Association Summary	133
Lab Chronicle	138
Certification Summary	147
Method Summary	148
Sample Summary	149
Chain of Custody	150
Receipt Checklists	157



Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery 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.

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Arcadis US Inc.
Project: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Job ID: 500-261951-1

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Job Narrative 500-261951-1

Receipt

The samples were received on 12/20/2024 10:15 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 -1.4° C and -1.1° C.

GC/MS VOA

Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. 500-261951-1, 500-261951-2, 500-261951-3, 500-261951-4, 500-261951-5, 500-261951-6, 500-261951-7, 500-261951-8, 500-261951-9, 500-261951-10, 500-261951-11, 500-261951-12, 500-261951-13, 500-261951-14, 500-261951-15, 500-261951-16, 500-261951-17, 500-261951-18, 500-261951-19, 500-261951-20, 500-261951-21, 500-261951-21[MS], 500-261951-21[MSD], 500-261951-22 and 500-261951-23

Method 8260D: The method blank for analytical batch 500-800983 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-800983 was outside the method criteria for the following analyte(s): Bromomethane, Isopropyl ether, Methacrylonitrile, n-butanol, cis-1,3-Dichloropropane, trans-1,3-Dichloropropane, 1,2-Dibromo-3-Chloropropane, Naphthalene, Bromoform, 1,1,2-Trichloroethane, 1,2,3-Trichloropropane, 4-methyl-2-pentanone, ethyl acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The method blank for analytical batch 500-800956 contained Chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-800956 was outside the method criteria for the following analyte(s): Bromomethane, Chloromethane, Dichloro-difluoromethane, Isopropyl ether, 1,1,2-Trichloroethane, 4-methyl-2-pentanone, 1,2,3-Trichlorobenzene, bromoform, 1,2-Dibromo-3-Chloropropane, and naphthalene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for 800649 and 800650 recovered outside control limits for Chloroethane and Dichlorodifluoromethane. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported. LCS 500-800649/22-A and LCS 500-800650/7-A

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-800959 was outside the method criteria for the following analyte(s): Bromoform, Chloroform, 1,2-Dibromo-3-Chloropropane, 1,2-Dichloroethane, 2,2-Dichloropropane and Methyl tert-butyl ether. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

LCMS

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-824867 and analytical batch 320-825254 were outside control limits for one or more analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control samples (LCSs) recovery are within acceptance limits.

Method 537 (modified): The concentration of 8:2 FTS associated with the following sample exceeded the instrument calibration range: 500-261951-15. This analyte has been qualified; however, the peak did not saturate the instrument detector. The sample was diluted within calibration range, and both sets of data were reported.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. The associated analytes have been flagged: 500-261951-1, 500-261951-2, 500-261951-3, 500-261951-10, 500-261951-16 and 500-261951-18.

Method 537 (modified): Results for sample 500-261951-15 was reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits. The percent recovery for the internal standard in the

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Case Narrative

Client: Arcadis US Inc.
Project: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Job ID: 500-261951-1 (Continued)

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10x analysis is 105% after the dilution factor was applied to the labeled internal standard area count.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-824897 and analytical batch 320-825616 were outside control limits for one or more analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated low level laboratory control sample (LLCS) recovery is within acceptance limits.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. The associated analytes have been flagged: 500-261951-22 and 500-261951-23.

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

General Chemistry

Method D2974-87: A correction factor of 0.58 was applied to the calculation of FOC by Nelson and Sommers. 500-261951-20, 500-261951-21, 500-261951-22 and 500-261951-23

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-824450.

Method 3535: The following sample was received in a 500 mL bottle: 500-261951-24. The sample was transferred into a new 250 mL bottle. After transferring into a new container, the sample was fortified with Isotope Dilution Analyte (IDA) then extracted.

Method SHAKE: The following samples in preparation batch 320-824867 were observed to have a thin layer of sediment present in the bottom of the bottle prior to extraction. 500-261951-1, 500-261951-2, 500-261951-3, 500-261951-4, 500-261951-5, 500-261951-8, 500-261951-C-1 MS and 500-261951-C-1 MSD

Method SHAKE: The following samples in preparation batch 320-824867 were yellow in color prior to extraction. 500-261951-1, 500-261951-2, 500-261951-3, 500-261951-4, 500-261951-5, 500-261951-8, 500-261951-C-1 MS and 500-261951-C-1 MSD

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

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-03-121824

Lab Sample ID: 500-261951-1

Date Collected: 12/18/24 14:50

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<69		140	69	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Bromobenzene	<340		560	340	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Bromochloromethane	<280		560	280	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Bromoform	<540		560	540	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Bromomethane	<1000		1700	1000	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Carbon tetrachloride	<230		560	230	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Chlorobenzene	<230		560	230	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Chloroethane	<260	*	2800	260	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Chloroform	<520		1100	520	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Chloromethane	<440		2800	440	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
2-Chlorotoluene	<200		560	200	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
4-Chlorotoluene	<190		560	190	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
cis-1,2-Dichloroethene	<230		560	230	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
cis-1,3-Dichloropropene	<290		560	290	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Dibromochloromethane	<470		560	470	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2-Dibromo-3-Chloropropane	<2300		2800	2300	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2-Dibromoethane (EDB)	<320		560	320	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Dibromomethane	<330		560	330	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2-Dichlorobenzene	<270		560	270	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,3-Dichlorobenzene	<230		560	230	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,4-Dichlorobenzene	<260		560	260	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Dichlorobromomethane	<320		560	320	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Dichlorodifluoromethane	<1000	*	1700	1000	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1-Dichloroethane	<200		560	200	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2-Dichloroethane	<330		560	330	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1-Dichloroethene	<270		560	270	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2-Dichloropropane	<210		560	210	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,3-Dichloropropane	<320		560	320	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
2,2-Dichloropropane	<270		2800	270	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1-Dichloropropene	<190		560	190	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Ethylbenzene	<97		140	97	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Hexachlorobutadiene	<300		560	300	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Isopropylbenzene	<160		560	160	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Isopropyl ether	<220		560	220	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Methylene Chloride	<1200		2800	1200	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Methyl tert-butyl ether	<240		560	240	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Naphthalene	<250		560	250	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
n-Butylbenzene	<180		560	180	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
N-Propylbenzene	<180		560	180	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
p-Isopropyltoluene	<160		560	160	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
sec-Butylbenzene	<150		560	150	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Styrene	<170		560	170	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
tert-Butylbenzene	<150		560	150	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1,1,2-Tetrachloroethane	<380		560	380	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1,1,2,2-Tetrachloroethane	<360		560	360	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Tetrachloroethene	<220		560	220	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Toluene	<120		140	120	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
trans-1,2-Dichloroethene	<250		560	250	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
trans-1,3-Dichloropropene	<360		560	360	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-03-121824

Lab Sample ID: 500-261951-1

Date Collected: 12/18/24 14:50

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<200		560	200	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2,4-Trichlorobenzene	<170		560	170	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1,1-Trichloroethane	<250		560	250	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,1,2-Trichloroethane	<410		560	410	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Trichloroethene	<84		280	84	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Trichlorofluoromethane	<250		560	250	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2,3-Trichloropropane	<840		1100	840	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,2,4-Trimethylbenzene	<170		560	170	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
1,3,5-Trimethylbenzene	<160		560	160	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Vinyl chloride	<260		560	260	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50
Xylenes, Total	<130		280	130	ug/Kg	☆	12/18/24 14:50	12/28/24 00:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 14:50	12/28/24 00:41	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 14:50	12/28/24 00:41	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 14:50	12/28/24 00:41	50
Toluene-d8 (Surr)	101		75 - 120	12/18/24 14:50	12/28/24 00:41	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.9		1.5	0.55	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoropentanoic acid (PFPeA)	9.7		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorohexanoic acid (PFHxA)	7.5		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoroheptanoic acid (PFHpA)	3.1		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorooctanoic acid (PFOA)	15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorononanoic acid (PFNA)	1.2		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorodecanoic acid (PFDA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoroundecanoic acid (PFUnA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorododecanoic acid (PFDoA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorotridecanoic acid (PFTriA)	<0.15	F1	0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.20	F1	0.60	0.20	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorobutanesulfonic acid (PFBS)	0.28	J	0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorooctanesulfonic acid (PFOS)	1.2	I	0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorononanesulfonic acid (PFNS)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.15	F1	0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Perfluorooctanesulfonamide (FOSA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
NEtFOSA	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
NMeFOSA	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
NMeFOSAA	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-03-121824

Lab Sample ID: 500-261951-1

Date Collected: 12/18/24 14:50

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
NMeFOSE	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
NEtFOSE	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
4:2 FTS	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
6:2 FTS	1.8		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
8:2 FTS	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
10:2 FTS	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
F-53B Major	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1
F-53B Minor	<0.15		0.60	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 21:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	64		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C5 PFPeA	68		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 PFHxA	72		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C4 PFHpA	70		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C4 PFOA	68		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C5 PFNA	70		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 PFDA	65		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 PFUnA	55		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 PFDoA	45		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 PFTeDA	36		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 PFHxDA	50		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C3 PFBS	68		25 - 150	12/30/24 11:54	01/01/25 21:17	1
18O2 PFHxS	67		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C4 PFOS	63		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C8 FOSA	43		10 - 150	12/30/24 11:54	01/01/25 21:17	1
d3-NMeFOSAA	65		25 - 150	12/30/24 11:54	01/01/25 21:17	1
d5-NEtFOSAA	65		25 - 150	12/30/24 11:54	01/01/25 21:17	1
d-N-MeFOSA-M	45		10 - 150	12/30/24 11:54	01/01/25 21:17	1
d-N-EtFOSA-M	47		10 - 150	12/30/24 11:54	01/01/25 21:17	1
d7-N-MeFOSE-M	40		10 - 150	12/30/24 11:54	01/01/25 21:17	1
d9-N-EtFOSE-M	47		10 - 150	12/30/24 11:54	01/01/25 21:17	1
M2-4:2 FTS	84		25 - 150	12/30/24 11:54	01/01/25 21:17	1
M2-6:2 FTS	86		25 - 150	12/30/24 11:54	01/01/25 21:17	1
M2-8:2 FTS	88		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C3 HFPO-DA	63		25 - 150	12/30/24 11:54	01/01/25 21:17	1
13C2 10:2 FTS	67		25 - 150	12/30/24 11:54	01/01/25 21:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	21		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	67.2		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	32.8		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-04-121824

Lab Sample ID: 500-261951-2

Date Collected: 12/18/24 15:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<79		160	79	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Bromobenzene	<380		640	380	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Bromochloromethane	<320		640	320	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Bromoform	<620		640	620	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Bromomethane	<1200		1900	1200	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Carbon tetrachloride	<270		640	270	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Chlorobenzene	<260		640	260	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Chloroethane	<300	*-	3200	300	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Chloroform	<590		1300	590	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Chloromethane	<510		3200	510	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
2-Chlorotoluene	<230		640	230	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
4-Chlorotoluene	<220		640	220	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
cis-1,2-Dichloroethene	<270		640	270	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
cis-1,3-Dichloropropene	<330		640	330	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Dibromochloromethane	<530		640	530	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,2-Dibromo-3-Chloropropane	<2600		3200	2600	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,2-Dibromoethane (EDB)	<360		640	360	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Dibromomethane	<370		640	370	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,2-Dichlorobenzene	<310		640	310	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,3-Dichlorobenzene	<260		640	260	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,4-Dichlorobenzene	<290		640	290	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Dichlorobromomethane	<370		640	370	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Dichlorodifluoromethane	<1100	*-	1900	1100	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,1-Dichloroethane	<230		640	230	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,2-Dichloroethane	<370		640	370	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,1-Dichloroethene	<310		640	310	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,2-Dichloropropane	<240		640	240	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,3-Dichloropropane	<360		640	360	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
2,2-Dichloropropane	<310		3200	310	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,1-Dichloropropene	<210		640	210	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Ethylbenzene	<110		160	110	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Hexachlorobutadiene	<350		640	350	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Isopropylbenzene	<190		640	190	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Isopropyl ether	<250		640	250	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Methylene Chloride	<1400		3200	1400	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Methyl tert-butyl ether	<280		640	280	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Naphthalene	<280		640	280	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
n-Butylbenzene	<210		640	210	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
N-Propylbenzene	<210		640	210	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
p-Isopropyltoluene	<190		640	190	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
sec-Butylbenzene	<170		640	170	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Styrene	<200		640	200	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
tert-Butylbenzene	<170		640	170	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,1,1,2-Tetrachloroethane	<430		640	430	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
1,1,1,2,2-Tetrachloroethane	<410		640	410	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Tetrachloroethene	<250		640	250	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
Toluene	<140		160	140	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
trans-1,2-Dichloroethene	<280		640	280	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50
trans-1,3-Dichloropropene	<410		640	410	ug/Kg	✱	12/18/24 15:10	12/28/24 01:05	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-04-121824

Lab Sample ID: 500-261951-2

Date Collected: 12/18/24 15:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<230		640	230	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
1,2,4-Trichlorobenzene	<200		640	200	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
1,1,1-Trichloroethane	<290		640	290	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
1,1,2-Trichloroethane	<470		640	470	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
Trichloroethene	<95		320	95	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
Trichlorofluoromethane	<280		640	280	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
1,2,3-Trichloropropane	<960		1300	960	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
1,2,4-Trimethylbenzene	<190		640	190	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
1,3,5-Trimethylbenzene	<180		640	180	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
Vinyl chloride	<300		640	300	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50
Xylenes, Total	<150		320	150	ug/Kg	✧	12/18/24 15:10	12/28/24 01:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/18/24 15:10	12/28/24 01:05	50
Dibromofluoromethane (Surr)	91		75 - 120	12/18/24 15:10	12/28/24 01:05	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	12/18/24 15:10	12/28/24 01:05	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 15:10	12/28/24 01:05	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.7		1.5	0.55	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoropentanoic acid (PFPeA)	32		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorohexanoic acid (PFHxA)	16		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoroheptanoic acid (PFHpA)	19		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorooctanoic acid (PFOA)	46		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorononanoic acid (PFNA)	23		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorodecanoic acid (PFDA)	0.45	J	0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoroundecanoic acid (PFUnA)	0.26	J	0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorododecanoic acid (PFDoA)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorotridecanoic acid (PFTriA)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorotetradecanoic acid (PFTeA)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.20		0.61	0.20	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorobutanesulfonic acid (PFBS)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoropentanesulfonic acid (PFPeS)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorohexanesulfonic acid (PFHxS)	2.5	I	0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorooctanesulfonic acid (PFOS)	5.4		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorononanesulfonic acid (PFNS)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
Perfluorooctanesulfonamide (FOSA)	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
NEtFOSA	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1
NMeFOSA	<0.15		0.61	0.15	ug/Kg	✧	12/30/24 11:54	01/01/25 22:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-04-121824

Lab Sample ID: 500-261951-2

Date Collected: 12/18/24 15:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
NEtFOSAA	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
NMeFOSE	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
NEtFOSE	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
4:2 FTS	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
6:2 FTS	0.19	J	0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
8:2 FTS	0.20	J	0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
10:2 FTS	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
F-53B Major	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1
F-53B Minor	<0.15		0.61	0.15	ug/Kg	☆	12/30/24 11:54	01/01/25 22:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C5 PFPeA	75		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 PFHxA	83		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C4 PFHpA	77		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C4 PFOA	77		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C5 PFNA	78		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 PFDA	82		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 PFUnA	79		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 PFDoA	63		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 PFTeDA	35		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 PFHxDA	43		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C3 PFBS	79		25 - 150	12/30/24 11:54	01/01/25 22:00	1
18O2 PFHxS	77		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C4 PFOS	75		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C8 FOSA	51		10 - 150	12/30/24 11:54	01/01/25 22:00	1
d3-NMeFOSAA	80		25 - 150	12/30/24 11:54	01/01/25 22:00	1
d5-NEtFOSAA	88		25 - 150	12/30/24 11:54	01/01/25 22:00	1
d-N-MeFOSA-M	47		10 - 150	12/30/24 11:54	01/01/25 22:00	1
d-N-EtFOSA-M	44		10 - 150	12/30/24 11:54	01/01/25 22:00	1
d7-N-MeFOSE-M	45		10 - 150	12/30/24 11:54	01/01/25 22:00	1
d9-N-EtFOSE-M	46		10 - 150	12/30/24 11:54	01/01/25 22:00	1
M2-4:2 FTS	98		25 - 150	12/30/24 11:54	01/01/25 22:00	1
M2-6:2 FTS	106		25 - 150	12/30/24 11:54	01/01/25 22:00	1
M2-8:2 FTS	116		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C3 HFPO-DA	73		25 - 150	12/30/24 11:54	01/01/25 22:00	1
13C2 10:2 FTS	104		25 - 150	12/30/24 11:54	01/01/25 22:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	23		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	67.1		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	32.9		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-05-121824

Lab Sample ID: 500-261951-3

Date Collected: 12/18/24 15:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 25.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<60		120	60	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Bromobenzene	<290		480	290	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Bromochloromethane	<240		480	240	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Bromoform	<470		480	470	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Bromomethane	<870		1500	870	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Carbon tetrachloride	<200		480	200	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Chlorobenzene	<200		480	200	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Chloroethane	<230	*-	2400	230	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Chloroform	<450		970	450	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Chloromethane	<380		2400	380	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
2-Chlorotoluene	<170		480	170	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
4-Chlorotoluene	<170		480	170	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
cis-1,2-Dichloroethene	<200		480	200	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
cis-1,3-Dichloropropene	<250		480	250	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Dibromochloromethane	<400		480	400	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,2-Dibromo-3-Chloropropane	<2000		2400	2000	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,2-Dibromoethane (EDB)	<270		480	270	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Dibromomethane	<280		480	280	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,2-Dichlorobenzene	<230		480	230	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,3-Dichlorobenzene	<200		480	200	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,4-Dichlorobenzene	<220		480	220	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Dichlorobromomethane	<280		480	280	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Dichlorodifluoromethane	<860	*-	1500	860	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,1-Dichloroethane	<180		480	180	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,2-Dichloroethane	<280		480	280	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,1-Dichloroethene	<230		480	230	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,2-Dichloropropane	<180		480	180	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,3-Dichloropropane	<270		480	270	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
2,2-Dichloropropane	<230		2400	230	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,1-Dichloropropene	<160		480	160	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Ethylbenzene	<83		120	83	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Hexachlorobutadiene	<260		480	260	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Isopropylbenzene	<140		480	140	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Isopropyl ether	<190		480	190	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Methylene Chloride	<1000		2400	1000	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Methyl tert-butyl ether	<210		480	210	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Naphthalene	<210		480	210	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
n-Butylbenzene	<160		480	160	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
N-Propylbenzene	<160		480	160	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
p-Isopropyltoluene	<140		480	140	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
sec-Butylbenzene	<130		480	130	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Styrene	<150		480	150	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
tert-Butylbenzene	<130		480	130	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,1,1,2-Tetrachloroethane	<320		480	320	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
1,1,2,2-Tetrachloroethane	<310		480	310	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Tetrachloroethene	<190		480	190	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
Toluene	<100		120	100	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
trans-1,2-Dichloroethene	<210		480	210	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50
trans-1,3-Dichloropropene	<310		480	310	ug/Kg	☆	12/18/24 15:25	12/28/24 01:28	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-05-121824

Lab Sample ID: 500-261951-3

Date Collected: 12/18/24 15:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 25.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<170		480	170	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
1,2,4-Trichlorobenzene	<150		480	150	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
1,1,1-Trichloroethane	<220		480	220	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
1,1,2-Trichloroethane	<350		480	350	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
Trichloroethene	<72		240	72	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
Trichlorofluoromethane	<210		480	210	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
1,2,3-Trichloropropane	<730		970	730	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
1,2,4-Trimethylbenzene	<150		480	150	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
1,3,5-Trimethylbenzene	<140		480	140	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
Vinyl chloride	<230		480	230	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50
Xylenes, Total	<110		240	110	ug/Kg	✧	12/18/24 15:25	12/28/24 01:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124	12/18/24 15:25	12/28/24 01:28	50
Dibromofluoromethane (Surr)	91		75 - 120	12/18/24 15:25	12/28/24 01:28	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 15:25	12/28/24 01:28	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 15:25	12/28/24 01:28	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.71		1.9	0.71	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoropentanoic acid (PFPeA)	0.59	J	0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorohexanoic acid (PFHxA)	0.44	J	0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoroheptanoic acid (PFHpA)	0.26	J	0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorooctanoic acid (PFOA)	1.4		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorononanoic acid (PFNA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorodecanoic acid (PFDA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoroundecanoic acid (PFUnA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorododecanoic acid (PFDoA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorotridecanoic acid (PFTriA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.26		0.78	0.26	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorooctanesulfonic acid (PFOS)	0.22	J I	0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorononanesulfonic acid (PFNS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
Perfluorooctanesulfonamide (FOSA)	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
NEtFOSA	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
NMeFOSA	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1
NMeFOSAA	<0.19		0.78	0.19	ug/Kg	✧	12/30/24 11:54	01/01/25 22:14	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-05-121824

Lab Sample ID: 500-261951-3

Date Collected: 12/18/24 15:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 25.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
NMeFOSE	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
NEtFOSE	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
4:2 FTS	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
6:2 FTS	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
8:2 FTS	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
10:2 FTS	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
F-53B Major	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
F-53B Minor	<0.19		0.78	0.19	ug/Kg	☆	12/30/24 11:54	01/01/25 22:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C5 PFPeA	95		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 PFHxA	102		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C4 PFHpA	97		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C4 PFOA	94		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C5 PFNA	91		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 PFDA	89		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 PFUnA	77		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 PFDoA	56		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 PFTeDA	42		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 PFHxDA	64		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C3 PFBS	98		25 - 150				12/30/24 11:54	01/01/25 22:14	1
18O2 PFHxS	99		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C4 PFOS	91		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C8 FOSA	72		10 - 150				12/30/24 11:54	01/01/25 22:14	1
d3-NMeFOSAA	68		25 - 150				12/30/24 11:54	01/01/25 22:14	1
d5-NEtFOSAA	67		25 - 150				12/30/24 11:54	01/01/25 22:14	1
d-N-MeFOSA-M	54		10 - 150				12/30/24 11:54	01/01/25 22:14	1
d-N-EtFOSA-M	51		10 - 150				12/30/24 11:54	01/01/25 22:14	1
d7-N-MeFOSE-M	52		10 - 150				12/30/24 11:54	01/01/25 22:14	1
d9-N-EtFOSE-M	49		10 - 150				12/30/24 11:54	01/01/25 22:14	1
M2-4:2 FTS	108		25 - 150				12/30/24 11:54	01/01/25 22:14	1
M2-6:2 FTS	99		25 - 150				12/30/24 11:54	01/01/25 22:14	1
M2-8:2 FTS	90		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C3 HFPO-DA	94		25 - 150				12/30/24 11:54	01/01/25 22:14	1
13C2 10:2 FTS	69		25 - 150				12/30/24 11:54	01/01/25 22:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	34		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	74.3		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	25.7		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-06-121824

Lab Sample ID: 500-261951-4

Date Collected: 12/18/24 16:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 41.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<33		67	33	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Bromobenzene	<160		270	160	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Bromochloromethane	<130		270	130	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Bromoform	<260		270	260	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Bromomethane	<480		800	480	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Carbon tetrachloride	<110		270	110	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Chlorobenzene	<110		270	110	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Chloroethane	<130	*-	1300	130	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Chloroform	<250		530	250	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Chloromethane	<210		1300	210	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
2-Chlorotoluene	<96		270	96	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
4-Chlorotoluene	<92		270	92	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
cis-1,2-Dichloroethene	<110		270	110	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
cis-1,3-Dichloropropene	<140		270	140	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Dibromochloromethane	<220		270	220	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,2-Dibromo-3-Chloropropane	<1100		1300	1100	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,2-Dibromoethane (EDB)	<150		270	150	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Dibromomethane	<160		270	160	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,2-Dichlorobenzene	<130		270	130	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,3-Dichlorobenzene	<110		270	110	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,4-Dichlorobenzene	<120		270	120	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Dichlorobromomethane	<150		270	150	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Dichlorodifluoromethane	<470	*-	800	470	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,1-Dichloroethane	<97		270	97	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,2-Dichloroethane	<150		270	150	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,1-Dichloroethene	<130		270	130	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,2-Dichloropropane	<100		270	100	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,3-Dichloropropane	<150		270	150	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
2,2-Dichloropropane	<130		1300	130	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,1-Dichloropropene	<89		270	89	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Ethylbenzene	<46		67	46	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Hexachlorobutadiene	<140		270	140	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Isopropylbenzene	<78		270	78	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Isopropyl ether	<100		270	100	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Methylene Chloride	<570		1300	570	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Methyl tert-butyl ether	<120		270	120	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Naphthalene	<120		270	120	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
n-Butylbenzene	<87		270	87	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
N-Propylbenzene	<86		270	86	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
p-Isopropyltoluene	<78		270	78	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
sec-Butylbenzene	<73		270	73	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Styrene	<82		270	82	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
tert-Butylbenzene	<71		270	71	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,1,1,2-Tetrachloroethane	<180		270	180	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
1,1,2,2-Tetrachloroethane	<170		270	170	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Tetrachloroethene	<100		270	100	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
Toluene	<56		67	56	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
trans-1,2-Dichloroethene	<120		270	120	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50
trans-1,3-Dichloropropene	<170		270	170	ug/Kg	☆	12/18/24 16:00	12/28/24 01:51	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-06-121824

Lab Sample ID: 500-261951-4

Date Collected: 12/18/24 16:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 41.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<94		270	94	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
1,2,4-Trichlorobenzene	<83		270	83	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
1,1,1-Trichloroethane	<120		270	120	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
1,1,2-Trichloroethane	<200		270	200	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
Trichloroethene	<40		130	40	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
Trichlorofluoromethane	<120		270	120	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
1,2,3-Trichloropropane	<400		530	400	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
1,2,4-Trimethylbenzene	<80		270	80	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
1,3,5-Trimethylbenzene	<77		270	77	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
Vinyl chloride	<130		270	130	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50
Xylenes, Total	<63		130	63	ug/Kg	✧	12/18/24 16:00	12/28/24 01:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124	12/18/24 16:00	12/28/24 01:51	50
Dibromofluoromethane (Surr)	90		75 - 120	12/18/24 16:00	12/28/24 01:51	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	12/18/24 16:00	12/28/24 01:51	50
Toluene-d8 (Surr)	104		75 - 120	12/18/24 16:00	12/28/24 01:51	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.43		1.2	0.43	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoropentanoic acid (PFPeA)	0.12	J	0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorohexanoic acid (PFHxA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoroheptanoic acid (PFHpA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorooctanoic acid (PFOA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorononanoic acid (PFNA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorodecanoic acid (PFDA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoroundecanoic acid (PFUnA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorododecanoic acid (PFDoA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorotridecanoic acid (PFTriA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.16		0.48	0.16	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorobutanesulfonic acid (PFBS)	0.33	J	0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorononanesulfonic acid (PFNS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
Perfluorooctanesulfonamide (FOSA)	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
NEtFOSA	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
NMeFOSA	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1
NMeFOSAA	<0.12		0.48	0.12	ug/Kg	✧	12/30/24 11:54	01/01/25 22:28	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-06-121824

Lab Sample ID: 500-261951-4

Date Collected: 12/18/24 16:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 41.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
NMeFOSE	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
NEtFOSE	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
4:2 FTS	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
6:2 FTS	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
8:2 FTS	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
10:2 FTS	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
F-53B Major	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
F-53B Minor	<0.12		0.48	0.12	ug/Kg	☆	12/30/24 11:54	01/01/25 22:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C5 PFPeA	91		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 PFHxA	96		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C4 PFHpA	92		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C4 PFOA	88		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C5 PFNA	85		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 PFDA	80		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 PFUnA	67		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 PFDoA	48		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 PFTeDA	56		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 PFHxDA	72		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C3 PFBS	95		25 - 150				12/30/24 11:54	01/01/25 22:28	1
18O2 PFHxS	93		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C4 PFOS	84		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C8 FOSA	64		10 - 150				12/30/24 11:54	01/01/25 22:28	1
d3-NMeFOSAA	73		25 - 150				12/30/24 11:54	01/01/25 22:28	1
d5-NEtFOSAA	63		25 - 150				12/30/24 11:54	01/01/25 22:28	1
d-N-MeFOSA-M	50		10 - 150				12/30/24 11:54	01/01/25 22:28	1
d-N-EtFOSA-M	50		10 - 150				12/30/24 11:54	01/01/25 22:28	1
d7-N-MeFOSE-M	50		10 - 150				12/30/24 11:54	01/01/25 22:28	1
d9-N-EtFOSE-M	50		10 - 150				12/30/24 11:54	01/01/25 22:28	1
M2-4:2 FTS	97		25 - 150				12/30/24 11:54	01/01/25 22:28	1
M2-6:2 FTS	91		25 - 150				12/30/24 11:54	01/01/25 22:28	1
M2-8:2 FTS	81		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C3 HFPO-DA	87		25 - 150				12/30/24 11:54	01/01/25 22:28	1
13C2 10:2 FTS	56		25 - 150				12/30/24 11:54	01/01/25 22:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	12		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	58.4		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	41.6		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-07-121824

Lab Sample ID: 500-261951-5

Date Collected: 12/18/24 15:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		30	15	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Bromobenzene	<72		120	72	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Bromochloromethane	<61		120	61	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Bromoform	<120		120	120	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Bromomethane	<220		360	220	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Carbon tetrachloride	<50		120	50	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Chlorobenzene	<50		120	50	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Chloroethane	<57	*-	610	57	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Chloroform	<110		240	110	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Chloromethane	<95		610	95	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
2-Chlorotoluene	<43		120	43	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
4-Chlorotoluene	<42		120	42	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
cis-1,2-Dichloroethene	<50		120	50	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
cis-1,3-Dichloropropene	<63		120	63	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Dibromochloromethane	<100		120	100	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,2-Dibromo-3-Chloropropane	<490		610	490	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,2-Dibromoethane (EDB)	<68		120	68	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Dibromomethane	<70		120	70	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,2-Dichlorobenzene	<58		120	58	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,3-Dichlorobenzene	<49		120	49	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,4-Dichlorobenzene	<55		120	55	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Dichlorobromomethane	<69		120	69	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Dichlorodifluoromethane	<210	*-	360	210	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,1-Dichloroethane	<44		120	44	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,2-Dichloroethane	<70		120	70	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,1-Dichloroethene	<58		120	58	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,2-Dichloropropane	<45		120	45	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,3-Dichloropropane	<68		120	68	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
2,2-Dichloropropane	<59		610	59	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,1-Dichloropropene	<40		120	40	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Ethylbenzene	<21		30	21	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Hexachlorobutadiene	<65		120	65	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Isopropylbenzene	<35		120	35	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Isopropyl ether	<47		120	47	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Methylene Chloride	<260		610	260	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Methyl tert-butyl ether	<52		120	52	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Naphthalene	<54		120	54	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
n-Butylbenzene	<40		120	40	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
N-Propylbenzene	<39		120	39	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
p-Isopropyltoluene	<35		120	35	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
sec-Butylbenzene	<33		120	33	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Styrene	<37		120	37	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
tert-Butylbenzene	<32		120	32	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,1,1,2-Tetrachloroethane	<81		120	81	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
1,1,2,2-Tetrachloroethane	<78		120	78	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Tetrachloroethene	<47		120	47	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
Toluene	<26		30	26	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
trans-1,2-Dichloroethene	<53		120	53	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50
trans-1,3-Dichloropropene	<77		120	77	ug/Kg	✱	12/18/24 15:45	12/28/24 02:14	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-07-121824

Lab Sample ID: 500-261951-5

Date Collected: 12/18/24 15:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<43		120	43	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
1,2,4-Trichlorobenzene	<38		120	38	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
1,1,1-Trichloroethane	<55		120	55	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
1,1,2-Trichloroethane	<89		120	89	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
Trichloroethene	<18		61	18	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
Trichlorofluoromethane	<54		120	54	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
1,2,3-Trichloropropane	<180		240	180	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
1,2,4-Trimethylbenzene	<36		120	36	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
1,3,5-Trimethylbenzene	<35		120	35	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
Vinyl chloride	<57		120	57	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50
Xylenes, Total	<29		61	29	ug/Kg	✧	12/18/24 15:45	12/28/24 02:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 15:45	12/28/24 02:14	50
Dibromofluoromethane (Surr)	93		75 - 120	12/18/24 15:45	12/28/24 02:14	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	12/18/24 15:45	12/28/24 02:14	50
Toluene-d8 (Surr)	106		75 - 120	12/18/24 15:45	12/28/24 02:14	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.22		0.60	0.22	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoropentanoic acid (PFPeA)	0.096	J	0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorohexanoic acid (PFHxA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoroheptanoic acid (PFHpA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorooctanoic acid (PFOA)	0.12	J	0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorononanoic acid (PFNA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorodecanoic acid (PFDA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoroundecanoic acid (PFUnA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorododecanoic acid (PFDoA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorotridecanoic acid (PFTriA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorotetradecanoic acid (PFTeA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.080		0.24	0.080	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorobutanesulfonic acid (PFBS)	0.065	J	0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorononanesulfonic acid (PFNS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
Perfluorooctanesulfonamide (FOSA)	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
NEtFOSA	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
NMeFOSA	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1
NMeFOSAA	<0.060		0.24	0.060	ug/Kg	✧	12/30/24 11:54	01/01/25 23:10	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-07-121824

Lab Sample ID: 500-261951-5

Date Collected: 12/18/24 15:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
NMeFOSE	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
NEtFOSE	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
4:2 FTS	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
6:2 FTS	0.12	J	0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
8:2 FTS	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
10:2 FTS	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
F-53B Major	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1
F-53B Minor	<0.060		0.24	0.060	ug/Kg	☆	12/30/24 11:54	01/01/25 23:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C5 PFPeA	98		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 PFHxA	103		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C4 PFHpA	95		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C4 PFOA	93		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C5 PFNA	85		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 PFDA	82		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 PFUnA	61		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 PFDoA	40		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 PFTeDA	32		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 PFHxDA	65		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C3 PFBS	101		25 - 150	12/30/24 11:54	01/01/25 23:10	1
18O2 PFHxS	95		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C4 PFOS	85		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C8 FOSA	62		10 - 150	12/30/24 11:54	01/01/25 23:10	1
d3-NMeFOSAA	56		25 - 150	12/30/24 11:54	01/01/25 23:10	1
d5-NEtFOSAA	50		25 - 150	12/30/24 11:54	01/01/25 23:10	1
d-N-MeFOSA-M	46		10 - 150	12/30/24 11:54	01/01/25 23:10	1
d-N-EtFOSA-M	44		10 - 150	12/30/24 11:54	01/01/25 23:10	1
d7-N-MeFOSE-M	48		10 - 150	12/30/24 11:54	01/01/25 23:10	1
d9-N-EtFOSE-M	41		10 - 150	12/30/24 11:54	01/01/25 23:10	1
M2-4:2 FTS	103		25 - 150	12/30/24 11:54	01/01/25 23:10	1
M2-6:2 FTS	89		25 - 150	12/30/24 11:54	01/01/25 23:10	1
M2-8:2 FTS	77		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C3 HFPO-DA	94		25 - 150	12/30/24 11:54	01/01/25 23:10	1
13C2 10:2 FTS	44		25 - 150	12/30/24 11:54	01/01/25 23:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.80		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	17.2		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	82.8		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-08-121824

Lab Sample ID: 500-261951-6

Date Collected: 12/18/24 08:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		24	12	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Bromobenzene	<58		98	58	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Bromochloromethane	<49		98	49	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Bromoform	<94		98	94	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Bromomethane	<180		290	180	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Carbon tetrachloride	<41		98	41	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Chlorobenzene	<40		98	40	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Chloroethane	<46	*-	490	46	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Chloroform	<90		200	90	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Chloromethane	<77		490	77	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
2-Chlorotoluene	<35		98	35	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
4-Chlorotoluene	<34		98	34	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
cis-1,2-Dichloroethene	<41		98	41	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
cis-1,3-Dichloropropene	<51		98	51	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Dibromochloromethane	<81		98	81	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,2-Dibromo-3-Chloropropane	<400		490	400	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,2-Dibromoethane (EDB)	<55		98	55	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Dibromomethane	<57		98	57	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,2-Dichlorobenzene	<47		98	47	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,3-Dichlorobenzene	<40		98	40	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,4-Dichlorobenzene	<45		98	45	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Dichlorobromomethane	<56		98	56	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Dichlorodifluoromethane	<170	*-	290	170	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,1-Dichloroethane	<36		98	36	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,2-Dichloroethane	<57		98	57	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,1-Dichloroethene	<47		98	47	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,2-Dichloropropane	<37		98	37	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,3-Dichloropropane	<55		98	55	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
2,2-Dichloropropane	<47		490	47	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,1-Dichloropropene	<33		98	33	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Ethylbenzene	<17		24	17	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Hexachlorobutadiene	<53		98	53	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Isopropylbenzene	<29		98	29	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Isopropyl ether	<38		98	38	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Methylene Chloride	<210		490	210	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Methyl tert-butyl ether	<42		98	42	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Naphthalene	<43		98	43	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
n-Butylbenzene	<32		98	32	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
N-Propylbenzene	<31		98	31	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
p-Isopropyltoluene	<29		98	29	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
sec-Butylbenzene	<27		98	27	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Styrene	<30		98	30	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
tert-Butylbenzene	<26		98	26	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,1,1,2-Tetrachloroethane	<65		98	65	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
1,1,2,2-Tetrachloroethane	<63		98	63	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Tetrachloroethene	<38		98	38	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
Toluene	<21		24	21	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
trans-1,2-Dichloroethene	<43		98	43	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50
trans-1,3-Dichloropropene	<62		98	62	ug/Kg	☆	12/18/24 08:30	12/28/24 02:37	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-08-121824

Lab Sample ID: 500-261951-6

Date Collected: 12/18/24 08:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<35		98	35	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
1,2,4-Trichlorobenzene	<30		98	30	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
1,1,1-Trichloroethane	<44		98	44	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
1,1,2-Trichloroethane	<72		98	72	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
Trichloroethene	<15		49	15	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
Trichlorofluoromethane	<43		98	43	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
1,2,3-Trichloropropane	<150		200	150	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
1,2,4-Trimethylbenzene	<29		98	29	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
1,3,5-Trimethylbenzene	<28		98	28	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
Vinyl chloride	<46		98	46	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50
Xylenes, Total	<23		49	23	ug/Kg	✧	12/18/24 08:30	12/28/24 02:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/18/24 08:30	12/28/24 02:37	50
Dibromofluoromethane (Surr)	90		75 - 120	12/18/24 08:30	12/28/24 02:37	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 08:30	12/28/24 02:37	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 08:30	12/28/24 02:37	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.21	J	0.55	0.20	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoropentanoic acid (PFPeA)	1.2		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorohexanoic acid (PFHxA)	0.82		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoroheptanoic acid (PFHpA)	1.0		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorooctanoic acid (PFOA)	7.6		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorononanoic acid (PFNA)	3.2		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorodecanoic acid (PFDA)	1.1		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoroundecanoic acid (PFUnA)	1.3		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorododecanoic acid (PFDoA)	0.85		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorotridecanoic acid (PFTriA)	1.3		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorotetradecanoic acid (PFTeA)	0.35		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	0.064	J	0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.073		0.22	0.073	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoropentanesulfonic acid (PFPeS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluoroheptanesulfonic acid (PFHpS)	0.086	J	0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorooctanesulfonic acid (PFOS)	4.7		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorononanesulfonic acid (PFNS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1
Perfluorooctanesulfonamide (FOSA)	0.64		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/01/25 23:24	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-08-121824

Lab Sample ID: 500-261951-6

Date Collected: 12/18/24 08:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
NMeFOSA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
NMeFOSAA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
NEtFOSAA	0.47		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
NMeFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
NEtFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
4:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
6:2 FTS	7.3		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
8:2 FTS	19		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
10:2 FTS	20		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
F-53B Major	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
F-53B Minor	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C5 PFPeA	101		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 PFHxA	106		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C4 PFHpA	96		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C4 PFOA	80		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C5 PFNA	62		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 PFDA	62		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 PFUnA	74		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 PFDoA	75		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 PFTeDA	63		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 PFHxDA	81		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C3 PFBS	108		25 - 150				12/30/24 11:54	01/01/25 23:24	1
18O2 PFHxS	94		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C4 PFOS	59		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C8 FOSA	59		10 - 150				12/30/24 11:54	01/01/25 23:24	1
d3-NMeFOSAA	77		25 - 150				12/30/24 11:54	01/01/25 23:24	1
d5-NEtFOSAA	81		25 - 150				12/30/24 11:54	01/01/25 23:24	1
d-N-MeFOSA-M	54		10 - 150				12/30/24 11:54	01/01/25 23:24	1
d-N-EtFOSA-M	55		10 - 150				12/30/24 11:54	01/01/25 23:24	1
d7-N-MeFOSE-M	55		10 - 150				12/30/24 11:54	01/01/25 23:24	1
d9-N-EtFOSE-M	57		10 - 150				12/30/24 11:54	01/01/25 23:24	1
M2-4:2 FTS	109		25 - 150				12/30/24 11:54	01/01/25 23:24	1
M2-6:2 FTS	79		25 - 150				12/30/24 11:54	01/01/25 23:24	1
M2-8:2 FTS	60		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C3 HFPO-DA	93		25 - 150				12/30/24 11:54	01/01/25 23:24	1
13C2 10:2 FTS	86		25 - 150				12/30/24 11:54	01/01/25 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	1.5		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	9.6		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	90.4		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-09-121824

Lab Sample ID: 500-261951-7

Date Collected: 12/18/24 08:40

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 89.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		27	13	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Bromobenzene	<63		110	63	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Bromochloromethane	<53		110	53	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Bromoform	<100		110	100	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Bromomethane	<190		320	190	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Carbon tetrachloride	<44		110	44	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Chlorobenzene	<44		110	44	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Chloroethane	<50	*-	530	50	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Chloroform	<98		210	98	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Chloromethane	<84		530	84	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
2-Chlorotoluene	<38		110	38	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
4-Chlorotoluene	<36		110	36	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
cis-1,2-Dichloroethene	<44		110	44	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
cis-1,3-Dichloropropene	<55		110	55	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Dibromochloromethane	<88		110	88	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2-Dibromo-3-Chloropropane	<430		530	430	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2-Dibromoethane (EDB)	<60		110	60	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Dibromomethane	<62		110	62	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2-Dichlorobenzene	<51		110	51	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,3-Dichlorobenzene	<43		110	43	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,4-Dichlorobenzene	<48		110	48	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Dichlorobromomethane	<60		110	60	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Dichlorodifluoromethane	<190	*-	320	190	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1-Dichloroethane	<39		110	39	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2-Dichloroethane	<61		110	61	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1-Dichloroethene	<51		110	51	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2-Dichloropropane	<40		110	40	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,3-Dichloropropane	<59		110	59	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
2,2-Dichloropropane	<51		530	51	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1-Dichloropropene	<35		110	35	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Ethylbenzene	<18		27	18	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Hexachlorobutadiene	<57		110	57	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Isopropylbenzene	<31		110	31	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Isopropyl ether	<41		110	41	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Methylene Chloride	<230		530	230	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Methyl tert-butyl ether	<46		110	46	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Naphthalene	<47		110	47	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
n-Butylbenzene	<35		110	35	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
N-Propylbenzene	<34		110	34	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
p-Isopropyltoluene	<31		110	31	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
sec-Butylbenzene	<29		110	29	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Styrene	<33		110	33	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
tert-Butylbenzene	<28		110	28	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1,1,2-Tetrachloroethane	<71		110	71	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1,1,2,2-Tetrachloroethane	<69		110	69	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Tetrachloroethene	<41		110	41	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Toluene	<22		27	22	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
trans-1,2-Dichloroethene	<47		110	47	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
trans-1,3-Dichloropropene	<67		110	67	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-09-121824

Lab Sample ID: 500-261951-7

Date Collected: 12/18/24 08:40

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 89.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<37		110	37	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2,4-Trichlorobenzene	<33		110	33	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1,1-Trichloroethane	<48		110	48	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,1,2-Trichloroethane	<78		110	78	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Trichloroethene	<16		53	16	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Trichlorofluoromethane	<47		110	47	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2,3-Trichloropropane	<160		210	160	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,2,4-Trimethylbenzene	<32		110	32	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
1,3,5-Trimethylbenzene	<31		110	31	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Vinyl chloride	<50		110	50	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50
Xylenes, Total	<25		53	25	ug/Kg	☆	12/18/24 08:40	12/28/24 03:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 08:40	12/28/24 03:00	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 08:40	12/28/24 03:00	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 08:40	12/28/24 03:00	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 08:40	12/28/24 03:00	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.55	0.20	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoropentanoic acid (PFPeA)	0.21	J	0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorohexanoic acid (PFHxA)	0.21	J	0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoroheptanoic acid (PFHpA)	0.16	J	0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorooctanoic acid (PFOA)	0.62		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorononanoic acid (PFNA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorodecanoic acid (PFDA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoroundecanoic acid (PFUnA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorododecanoic acid (PFDoA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorotridecanoic acid (PFTriA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.073		0.22	0.073	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.061	J	0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorooctanesulfonic acid (PFOS)	0.067	J	0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorononanesulfonic acid (PFNS)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Perfluorooctanesulfonamide (FOSA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
NEtFOSA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
NMeFOSA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
NMeFOSAA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-09-121824

Lab Sample ID: 500-261951-7

Date Collected: 12/18/24 08:40

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
NMeFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
NEtFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
4:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
6:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
8:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
10:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
F-53B Major	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1
F-53B Minor	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/01/25 23:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C5 PFPeA	93		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 PFHxA	100		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C4 PFHpA	93		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C4 PFOA	77		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C5 PFNA	52		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 PFDA	43		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 PFUnA	44		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 PFDoA	40		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 PFTeDA	35		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 PFHxDA	59		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C3 PFBS	93		25 - 150	12/30/24 11:54	01/01/25 23:38	1
18O2 PFHxS	86		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C4 PFOS	45		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C8 FOSA	52		10 - 150	12/30/24 11:54	01/01/25 23:38	1
d3-NMeFOSAA	44		25 - 150	12/30/24 11:54	01/01/25 23:38	1
d5-NEtFOSAA	45		25 - 150	12/30/24 11:54	01/01/25 23:38	1
d-N-MeFOSA-M	46		10 - 150	12/30/24 11:54	01/01/25 23:38	1
d-N-EtFOSA-M	41		10 - 150	12/30/24 11:54	01/01/25 23:38	1
d7-N-MeFOSE-M	44		10 - 150	12/30/24 11:54	01/01/25 23:38	1
d9-N-EtFOSE-M	39		10 - 150	12/30/24 11:54	01/01/25 23:38	1
M2-4:2 FTS	88		25 - 150	12/30/24 11:54	01/01/25 23:38	1
M2-6:2 FTS	68		25 - 150	12/30/24 11:54	01/01/25 23:38	1
M2-8:2 FTS	37		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C3 HFPO-DA	93		25 - 150	12/30/24 11:54	01/01/25 23:38	1
13C2 10:2 FTS	38		25 - 150	12/30/24 11:54	01/01/25 23:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.50		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	10.3		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	89.7		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-10-121824

Lab Sample ID: 500-261951-8

Date Collected: 12/18/24 08:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		27	13	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Bromobenzene	<64		110	64	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Bromochloromethane	<54		110	54	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Bromoform	<100		110	100	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Bromomethane	<190		320	190	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Carbon tetrachloride	<45		110	45	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Chlorobenzene	<44		110	44	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Chloroethane	<51	*-	540	51	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Chloroform	<100		220	100	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Chloromethane	<85		540	85	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
2-Chlorotoluene	<39		110	39	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
4-Chlorotoluene	<37		110	37	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
cis-1,2-Dichloroethene	<45		110	45	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
cis-1,3-Dichloropropene	<56		110	56	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Dibromochloromethane	<90		110	90	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,2-Dibromo-3-Chloropropane	<440		540	440	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,2-Dibromoethane (EDB)	<61		110	61	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Dibromomethane	<63		110	63	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,2-Dichlorobenzene	<52		110	52	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,3-Dichlorobenzene	<44		110	44	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,4-Dichlorobenzene	<49		110	49	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Dichlorobromomethane	<62		110	62	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Dichlorodifluoromethane	<190	*-	320	190	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,1-Dichloroethane	<39		110	39	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,2-Dichloroethane	<63		110	63	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,1-Dichloroethene	<52		110	52	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,2-Dichloropropane	<40		110	40	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,3-Dichloropropane	<61		110	61	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
2,2-Dichloropropane	<52		540	52	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,1-Dichloropropene	<36		110	36	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Ethylbenzene	<19		27	19	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Hexachlorobutadiene	<58		110	58	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Isopropylbenzene	<31		110	31	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Isopropyl ether	<42		110	42	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Methylene Chloride	<230		540	230	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Methyl tert-butyl ether	<47		110	47	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Naphthalene	<48		110	48	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
n-Butylbenzene	<35		110	35	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
N-Propylbenzene	<35		110	35	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
p-Isopropyltoluene	<32		110	32	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
sec-Butylbenzene	<29		110	29	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Styrene	<33		110	33	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
tert-Butylbenzene	<29		110	29	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,1,1,2-Tetrachloroethane	<72		110	72	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
1,1,2,2-Tetrachloroethane	<70		110	70	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Tetrachloroethene	<42		110	42	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
Toluene	<23		27	23	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
trans-1,2-Dichloroethene	<48		110	48	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50
trans-1,3-Dichloropropene	<68		110	68	ug/Kg	☆	12/18/24 08:55	12/28/24 03:23	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-10-121824

Lab Sample ID: 500-261951-8

Date Collected: 12/18/24 08:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<38		110	38	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
1,2,4-Trichlorobenzene	<34		110	34	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
1,1,1-Trichloroethane	<49		110	49	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
1,1,2-Trichloroethane	<79		110	79	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
Trichloroethene	<16		54	16	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
Trichlorofluoromethane	<48		110	48	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
1,2,3-Trichloropropane	<160		220	160	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
1,2,4-Trimethylbenzene	<33		110	33	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
1,3,5-Trimethylbenzene	<31		110	31	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
Vinyl chloride	<51		110	51	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50
Xylenes, Total	<25		54	25	ug/Kg	✱	12/18/24 08:55	12/28/24 03:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/18/24 08:55	12/28/24 03:23	50
Dibromofluoromethane (Surr)	90		75 - 120	12/18/24 08:55	12/28/24 03:23	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 08:55	12/28/24 03:23	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 08:55	12/28/24 03:23	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.19		0.53	0.19	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoropentanoic acid (PFPeA)	0.15	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorohexanoic acid (PFHxA)	0.12	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoroheptanoic acid (PFHpA)	0.18	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorooctanoic acid (PFOA)	0.75		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorononanoic acid (PFNA)	0.064	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorodecanoic acid (PFDA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoroundecanoic acid (PFUnA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorododecanoic acid (PFDoA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorotridecanoic acid (PFTriA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.070		0.21	0.070	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorooctanesulfonic acid (PFOS)	0.21		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorononanesulfonic acid (PFNS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
Perfluorooctanesulfonamide (FOSA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
NEtFOSA	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
NMeFOSA	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1
NMeFOSAA	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/01/25 23:52	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-10-121824

Lab Sample ID: 500-261951-8

Date Collected: 12/18/24 08:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
NMeFOSE	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
NEtFOSE	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
4:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
6:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
8:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
10:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
F-53B Major	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
F-53B Minor	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/01/25 23:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	110		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C5 PFPeA	106		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 PFHxA	115		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C4 PFHpA	103		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C4 PFOA	90		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C5 PFNA	77		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 PFDA	74		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 PFUnA	81		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 PFDoA	80		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 PFTeDA	67		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 PFHxDA	84		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C3 PFBS	106		25 - 150				12/30/24 11:54	01/01/25 23:52	1
18O2 PFHxS	99		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C4 PFOS	72		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C8 FOSA	69		10 - 150				12/30/24 11:54	01/01/25 23:52	1
d3-NMeFOSAA	82		25 - 150				12/30/24 11:54	01/01/25 23:52	1
d5-NEtFOSAA	90		25 - 150				12/30/24 11:54	01/01/25 23:52	1
d-N-MeFOSA-M	66		10 - 150				12/30/24 11:54	01/01/25 23:52	1
d-N-EtFOSA-M	66		10 - 150				12/30/24 11:54	01/01/25 23:52	1
d7-N-MeFOSE-M	62		10 - 150				12/30/24 11:54	01/01/25 23:52	1
d9-N-EtFOSE-M	65		10 - 150				12/30/24 11:54	01/01/25 23:52	1
M2-4:2 FTS	130		25 - 150				12/30/24 11:54	01/01/25 23:52	1
M2-6:2 FTS	89		25 - 150				12/30/24 11:54	01/01/25 23:52	1
M2-8:2 FTS	68		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C3 HFPO-DA	100		25 - 150				12/30/24 11:54	01/01/25 23:52	1
13C2 10:2 FTS	86		25 - 150				12/30/24 11:54	01/01/25 23:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.82		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	6.1		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	93.9		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-11-121824

Lab Sample ID: 500-261951-9

Date Collected: 12/18/24 09:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		27	13	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Bromobenzene	<65		110	65	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Bromochloromethane	<54		110	54	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Bromoform	<100		110	100	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Bromomethane	<190		330	190	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Carbon tetrachloride	<45		110	45	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Chlorobenzene	<45		110	45	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Chloroethane	<51	*-	540	51	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Chloroform	<100		220	100	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Chloromethane	<85		540	85	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
2-Chlorotoluene	<39		110	39	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
4-Chlorotoluene	<37		110	37	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
cis-1,2-Dichloroethene	<45		110	45	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
cis-1,3-Dichloropropene	<56		110	56	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Dibromochloromethane	<90		110	90	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2-Dibromo-3-Chloropropane	<440		540	440	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2-Dibromoethane (EDB)	<61		110	61	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Dibromomethane	<63		110	63	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2-Dichlorobenzene	<52		110	52	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,3-Dichlorobenzene	<44		110	44	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,4-Dichlorobenzene	<49		110	49	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Dichlorobromomethane	<62		110	62	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Dichlorodifluoromethane	<190	*-	330	190	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1-Dichloroethane	<39		110	39	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2-Dichloroethane	<63		110	63	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1-Dichloroethene	<52		110	52	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2-Dichloropropane	<41		110	41	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,3-Dichloropropane	<61		110	61	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
2,2-Dichloropropane	<53		540	53	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1-Dichloropropene	<36		110	36	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Ethylbenzene	<19		27	19	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Hexachlorobutadiene	<58		110	58	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Isopropylbenzene	<32		110	32	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Isopropyl ether	<42		110	42	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Methylene Chloride	<230		540	230	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Methyl tert-butyl ether	<47		110	47	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Naphthalene	<48		110	48	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
n-Butylbenzene	<35		110	35	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
N-Propylbenzene	<35		110	35	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
p-Isopropyltoluene	<32		110	32	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
sec-Butylbenzene	<29		110	29	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Styrene	<33		110	33	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
tert-Butylbenzene	<29		110	29	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1,1,2-Tetrachloroethane	<72		110	72	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1,2,2-Tetrachloroethane	<70		110	70	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Tetrachloroethene	<42		110	42	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Toluene	<23		27	23	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
trans-1,2-Dichloroethene	<48		110	48	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
trans-1,3-Dichloropropene	<69		110	69	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-11-121824

Lab Sample ID: 500-261951-9

Date Collected: 12/18/24 09:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<38		110	38	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2,4-Trichlorobenzene	<34		110	34	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1,1-Trichloroethane	<49		110	49	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,1,2-Trichloroethane	<79		110	79	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Trichloroethene	<16		54	16	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Trichlorofluoromethane	<48		110	48	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2,3-Trichloropropane	<160		220	160	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,2,4-Trimethylbenzene	<33		110	33	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
1,3,5-Trimethylbenzene	<31		110	31	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Vinyl chloride	<51		110	51	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50
Xylenes, Total	<26		54	26	ug/Kg	☆	12/18/24 09:30	12/28/24 03:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 09:30	12/28/24 03:46	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 09:30	12/28/24 03:46	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 126	12/18/24 09:30	12/28/24 03:46	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 09:30	12/28/24 03:46	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.21		0.59	0.21	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoropentanoic acid (PFPeA)	0.24		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorohexanoic acid (PFHxA)	0.34		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoroheptanoic acid (PFHpA)	0.36		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorooctanoic acid (PFOA)	3.3		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorononanoic acid (PFNA)	0.25		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorodecanoic acid (PFDA)	0.17 J		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoroundecanoic acid (PFUnA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorododecanoic acid (PFDoA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorotridecanoic acid (PFTriA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.078		0.24	0.078	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.29		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorooctanesulfonic acid (PFOS)	0.22 J		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorononanesulfonic acid (PFNS)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Perfluorooctanesulfonamide (FOSA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
NEtFOSA	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
NMeFOSA	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
NMeFOSAA	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-11-121824

Lab Sample ID: 500-261951-9

Date Collected: 12/18/24 09:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
NMeFOSE	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
NEtFOSE	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
4:2 FTS	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
6:2 FTS	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
8:2 FTS	2.1		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
10:2 FTS	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
F-53B Major	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
F-53B Minor	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 00:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C5 PFPeA	101		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 PFHxA	107		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C4 PFHpA	93		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C4 PFOA	76		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C5 PFNA	66		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 PFDA	73		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 PFUnA	92		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 PFDoA	95		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 PFTeDA	75		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 PFHxDA	84		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C3 PFBS	101		25 - 150				12/30/24 11:54	01/02/25 00:06	1
18O2 PFHxS	88		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C4 PFOS	63		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C8 FOSA	64		10 - 150				12/30/24 11:54	01/02/25 00:06	1
d3-NMeFOSAA	96		25 - 150				12/30/24 11:54	01/02/25 00:06	1
d5-NEtFOSAA	103		25 - 150				12/30/24 11:54	01/02/25 00:06	1
d-N-MeFOSA-M	59		10 - 150				12/30/24 11:54	01/02/25 00:06	1
d-N-EtFOSA-M	58		10 - 150				12/30/24 11:54	01/02/25 00:06	1
d7-N-MeFOSE-M	58		10 - 150				12/30/24 11:54	01/02/25 00:06	1
d9-N-EtFOSE-M	58		10 - 150				12/30/24 11:54	01/02/25 00:06	1
M2-4:2 FTS	129		25 - 150				12/30/24 11:54	01/02/25 00:06	1
M2-6:2 FTS	87		25 - 150				12/30/24 11:54	01/02/25 00:06	1
M2-8:2 FTS	87		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C3 HFPO-DA	97		25 - 150				12/30/24 11:54	01/02/25 00:06	1
13C2 10:2 FTS	128		25 - 150				12/30/24 11:54	01/02/25 00:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.61		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	15.7		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	84.3		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-12-121824

Lab Sample ID: 500-261951-10

Date Collected: 12/18/24 09:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		30	15	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Bromobenzene	<71		120	71	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Bromochloromethane	<59		120	59	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Bromoform	<110		120	110	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Bromomethane	<210		360	210	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Carbon tetrachloride	<49		120	49	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Chlorobenzene	<49		120	49	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Chloroethane	<56	*	590	56	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Chloroform	<110		240	110	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Chloromethane	<94		590	94	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
2-Chlorotoluene	<43		120	43	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
4-Chlorotoluene	<41		120	41	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
cis-1,2-Dichloroethene	<49		120	49	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
cis-1,3-Dichloropropene	<62		120	62	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Dibromochloromethane	<99		120	99	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,2-Dibromo-3-Chloropropane	<480		590	480	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,2-Dibromoethane (EDB)	<67		120	67	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Dibromomethane	<69		120	69	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,2-Dichlorobenzene	<57		120	57	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,3-Dichlorobenzene	<48		120	48	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,4-Dichlorobenzene	<54		120	54	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Dichlorobromomethane	<68		120	68	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Dichlorodifluoromethane	<210	*	360	210	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,1-Dichloroethane	<43		120	43	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,2-Dichloroethane	<69		120	69	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,1-Dichloroethene	<57		120	57	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,2-Dichloropropane	<44		120	44	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,3-Dichloropropane	<66		120	66	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
2,2-Dichloropropane	<58		590	58	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,1-Dichloropropene	<40		120	40	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Ethylbenzene	<20		30	20	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Hexachlorobutadiene	<64		120	64	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Isopropylbenzene	<35		120	35	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Isopropyl ether	<46		120	46	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Methylene Chloride	<260		590	260	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Methyl tert-butyl ether	<51		120	51	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Naphthalene	<53		120	53	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
n-Butylbenzene	<39		120	39	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
N-Propylbenzene	<38		120	38	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
p-Isopropyltoluene	<35		120	35	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
sec-Butylbenzene	<32		120	32	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Styrene	<36		120	36	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
tert-Butylbenzene	<31		120	31	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,1,1,2-Tetrachloroethane	<79		120	79	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
1,1,2,2-Tetrachloroethane	<77		120	77	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Tetrachloroethene	<46		120	46	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
Toluene	<25		30	25	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
trans-1,2-Dichloroethene	<52		120	52	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50
trans-1,3-Dichloropropene	<75		120	75	ug/Kg	☆	12/18/24 09:20	12/28/24 04:09	50

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-12-121824

Lab Sample ID: 500-261951-10

Date Collected: 12/18/24 09:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<42		120	42	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
1,2,4-Trichlorobenzene	<37		120	37	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
1,1,1-Trichloroethane	<54		120	54	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
1,1,2-Trichloroethane	<87		120	87	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
Trichloroethene	<18		59	18	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
Trichlorofluoromethane	<53		120	53	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
1,2,3-Trichloropropane	<180		240	180	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
1,2,4-Trimethylbenzene	<36		120	36	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
1,3,5-Trimethylbenzene	<34		120	34	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
Vinyl chloride	<56		120	56	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50
Xylenes, Total	<28		59	28	ug/Kg	✧	12/18/24 09:20	12/28/24 04:09	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/18/24 09:20	12/28/24 04:09	50
Dibromofluoromethane (Surr)	91		75 - 120	12/18/24 09:20	12/28/24 04:09	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 09:20	12/28/24 04:09	50
Toluene-d8 (Surr)	101		75 - 120	12/18/24 09:20	12/28/24 04:09	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.21	J	0.57	0.21	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoropentanoic acid (PFPeA)	0.50		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorohexanoic acid (PFHxA)	0.44		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoroheptanoic acid (PFHpA)	0.91		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorooctanoic acid (PFOA)	4.7		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorononanoic acid (PFNA)	3.6		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorodecanoic acid (PFDA)	2.7		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoroundecanoic acid (PFUnA)	0.81		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorododecanoic acid (PFDoA)	0.15	J	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorotridecanoic acid (PFTriA)	0.25		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorotetradecanoic acid (PFTeA)	0.076	J I	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.075		0.23	0.075	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoropentanesulfonic acid (PFPeS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.42	I	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorooctanesulfonic acid (PFOS)	3.6		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorononanesulfonic acid (PFNS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorodecanesulfonic acid (PFDS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1
Perfluorooctanesulfonamide (FOSA)	0.066	J	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:20	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-12-121824

Lab Sample ID: 500-261951-10

Date Collected: 12/18/24 09:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
NMeFOSA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
NMeFOSAA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
NEtFOSAA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
NMeFOSE	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
NEtFOSE	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
4:2 FTS	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
6:2 FTS	0.17	J	0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
8:2 FTS	0.94		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
10:2 FTS	0.24		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
F-53B Major	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
F-53B Minor	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 00:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C5 PFPeA	93		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 PFHxA	100		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C4 PFHpA	94		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C4 PFOA	82		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C5 PFNA	71		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 PFDA	69		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 PFUnA	78		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 PFDoA	81		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 PFTeDA	66		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 PFHxDA	74		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C3 PFBS	97		25 - 150				12/30/24 11:54	01/02/25 00:20	1
18O2 PFHxS	92		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C4 PFOS	68		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C8 FOSA	67		10 - 150				12/30/24 11:54	01/02/25 00:20	1
d3-NMeFOSAA	80		25 - 150				12/30/24 11:54	01/02/25 00:20	1
d5-NEtFOSAA	84		25 - 150				12/30/24 11:54	01/02/25 00:20	1
d-N-MeFOSA-M	65		10 - 150				12/30/24 11:54	01/02/25 00:20	1
d-N-EtFOSA-M	65		10 - 150				12/30/24 11:54	01/02/25 00:20	1
d7-N-MeFOSE-M	61		10 - 150				12/30/24 11:54	01/02/25 00:20	1
d9-N-EtFOSE-M	65		10 - 150				12/30/24 11:54	01/02/25 00:20	1
M2-4:2 FTS	110		25 - 150				12/30/24 11:54	01/02/25 00:20	1
M2-6:2 FTS	91		25 - 150				12/30/24 11:54	01/02/25 00:20	1
M2-8:2 FTS	70		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C3 HFPO-DA	88		25 - 150				12/30/24 11:54	01/02/25 00:20	1
13C2 10:2 FTS	90		25 - 150				12/30/24 11:54	01/02/25 00:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	1.2		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	12.6		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	87.4		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-13-121824

Lab Sample ID: 500-261951-11

Date Collected: 12/18/24 10:05

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		31	15	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Bromobenzene	<74		120	74	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Bromochloromethane	<62		120	62	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Bromoform	<120		120	120	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Bromomethane	<220		370	220	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Carbon tetrachloride	<51		120	51	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Chlorobenzene	<51		120	51	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Chloroethane	<58	*-	620	58	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Chloroform	<110		250	110	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Chloromethane	<98		620	98	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
2-Chlorotoluene	<44		120	44	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
4-Chlorotoluene	<42		120	42	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
cis-1,2-Dichloroethene	<51		120	51	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
cis-1,3-Dichloropropene	<64		120	64	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Dibromochloromethane	<100		120	100	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,2-Dibromo-3-Chloropropane	<500		620	500	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,2-Dibromoethane (EDB)	<70		120	70	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Dibromomethane	<72		120	72	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,2-Dichlorobenzene	<59		120	59	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,3-Dichlorobenzene	<50		120	50	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,4-Dichlorobenzene	<56		120	56	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Dichlorobromomethane	<70		120	70	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Dichlorodifluoromethane	<220	*-	370	220	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,1-Dichloroethane	<45		120	45	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,2-Dichloroethane	<72		120	72	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,1-Dichloroethene	<59		120	59	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,2-Dichloropropane	<46		120	46	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,3-Dichloropropane	<69		120	69	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
2,2-Dichloropropane	<60		620	60	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,1-Dichloropropene	<41		120	41	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Ethylbenzene	<21		31	21	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Hexachlorobutadiene	<67		120	67	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Isopropylbenzene	<36		120	36	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Isopropyl ether	<48		120	48	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Methylene Chloride	<270		620	270	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Methyl tert-butyl ether	<54		120	54	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Naphthalene	<55		120	55	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
n-Butylbenzene	<40		120	40	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
N-Propylbenzene	<40		120	40	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
p-Isopropyltoluene	<36		120	36	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
sec-Butylbenzene	<34		120	34	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Styrene	<38		120	38	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
tert-Butylbenzene	<33		120	33	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,1,1,2-Tetrachloroethane	<82		120	82	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
1,1,2,2-Tetrachloroethane	<80		120	80	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Tetrachloroethene	<48		120	48	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
Toluene	<26		31	26	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
trans-1,2-Dichloroethene	<54		120	54	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50
trans-1,3-Dichloropropene	<78		120	78	ug/Kg	✱	12/18/24 10:05	12/28/24 04:31	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-13-121824

Lab Sample ID: 500-261951-11

Date Collected: 12/18/24 10:05

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<44		120	44	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
1,2,4-Trichlorobenzene	<38		120	38	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
1,1,1-Trichloroethane	<56		120	56	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
1,1,2-Trichloroethane	<90		120	90	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
Trichloroethene	<18		62	18	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
Trichlorofluoromethane	<55		120	55	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
1,2,3-Trichloropropane	<190		250	190	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
1,2,4-Trimethylbenzene	<37		120	37	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
1,3,5-Trimethylbenzene	<36		120	36	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
Vinyl chloride	<58		120	58	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50
Xylenes, Total	<29		62	29	ug/Kg	✧	12/18/24 10:05	12/28/24 04:31	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/18/24 10:05	12/28/24 04:31	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 10:05	12/28/24 04:31	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 126	12/18/24 10:05	12/28/24 04:31	50
Toluene-d8 (Surr)	101		75 - 120	12/18/24 10:05	12/28/24 04:31	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.55	0.20	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoropentanoic acid (PFPeA)	0.27		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorohexanoic acid (PFHxA)	0.11	J	0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoroheptanoic acid (PFHpA)	0.12	J	0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorooctanoic acid (PFOA)	0.28		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorononanoic acid (PFNA)	0.44		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorodecanoic acid (PFDA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoroundecanoic acid (PFUnA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorododecanoic acid (PFDoA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorotridecanoic acid (PFTriA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.073		0.22	0.073	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorooctanesulfonic acid (PFOS)	1.6		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorononanesulfonic acid (PFNS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
Perfluorooctanesulfonamide (FOSA)	0.056	J	0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
NEtFOSA	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
NMeFOSA	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1
NMeFOSAA	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 00:34	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-13-121824

Lab Sample ID: 500-261951-11

Date Collected: 12/18/24 10:05

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
NMeFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
NEtFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
4:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
6:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
8:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
10:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
F-53B Major	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
F-53B Minor	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 00:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C5 PFPeA	98		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 PFHxA	101		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C4 PFHpA	93		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C4 PFOA	76		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C5 PFNA	57		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 PFDA	41		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 PFUnA	41		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 PFDoA	43		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 PFTeDA	39		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 PFHxDA	61		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C3 PFBS	98		25 - 150				12/30/24 11:54	01/02/25 00:34	1
18O2 PFHxS	92		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C4 PFOS	52		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C8 FOSA	50		10 - 150				12/30/24 11:54	01/02/25 00:34	1
d3-NMeFOSAA	46		25 - 150				12/30/24 11:54	01/02/25 00:34	1
d5-NEtFOSAA	46		25 - 150				12/30/24 11:54	01/02/25 00:34	1
d-N-MeFOSA-M	40		10 - 150				12/30/24 11:54	01/02/25 00:34	1
d-N-EtFOSA-M	39		10 - 150				12/30/24 11:54	01/02/25 00:34	1
d7-N-MeFOSE-M	36		10 - 150				12/30/24 11:54	01/02/25 00:34	1
d9-N-EtFOSE-M	31		10 - 150				12/30/24 11:54	01/02/25 00:34	1
M2-4:2 FTS	91		25 - 150				12/30/24 11:54	01/02/25 00:34	1
M2-6:2 FTS	72		25 - 150				12/30/24 11:54	01/02/25 00:34	1
M2-8:2 FTS	38		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C3 HFPO-DA	91		25 - 150				12/30/24 11:54	01/02/25 00:34	1
13C2 10:2 FTS	43		25 - 150				12/30/24 11:54	01/02/25 00:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.24		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	9.8		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	90.2		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-14-121824

Lab Sample ID: 500-261951-12

Date Collected: 12/18/24 10:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		25	12	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Bromobenzene	<60		100	60	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Bromochloromethane	<51		100	51	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Bromoform	<98		100	98	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Bromomethane	<180		300	180	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Carbon tetrachloride	<42		100	42	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Chlorobenzene	<42		100	42	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Chloroethane	<48	*-	510	48	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Chloroform	<93		200	93	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Chloromethane	<80		510	80	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
2-Chlorotoluene	<36		100	36	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
4-Chlorotoluene	<35		100	35	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
cis-1,2-Dichloroethene	<42		100	42	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
cis-1,3-Dichloropropene	<53		100	53	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Dibromochloromethane	<84		100	84	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,2-Dibromo-3-Chloropropane	<410		510	410	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,2-Dibromoethane (EDB)	<57		100	57	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Dibromomethane	<59		100	59	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,2-Dichlorobenzene	<48		100	48	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,3-Dichlorobenzene	<41		100	41	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,4-Dichlorobenzene	<46		100	46	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Dichlorobromomethane	<58		100	58	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Dichlorodifluoromethane	<180	*-	300	180	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,1-Dichloroethane	<37		100	37	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,2-Dichloroethane	<59		100	59	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,1-Dichloroethene	<49		100	49	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,2-Dichloropropane	<38		100	38	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,3-Dichloropropane	<57		100	57	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
2,2-Dichloropropane	<49		510	49	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,1-Dichloropropene	<34		100	34	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Ethylbenzene	<17		25	17	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Hexachlorobutadiene	<55		100	55	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Isopropylbenzene	<29		100	29	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Isopropyl ether	<39		100	39	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Methylene Chloride	<220		510	220	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Methyl tert-butyl ether	<44		100	44	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Naphthalene	<45		100	45	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
n-Butylbenzene	<33		100	33	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
N-Propylbenzene	<32		100	32	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
p-Isopropyltoluene	<30		100	30	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
sec-Butylbenzene	<28		100	28	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Styrene	<31		100	31	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
tert-Butylbenzene	<27		100	27	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,1,1,2-Tetrachloroethane	<67		100	67	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
1,1,2,2-Tetrachloroethane	<66		100	66	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Tetrachloroethene	<39		100	39	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
Toluene	<21		25	21	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
trans-1,2-Dichloroethene	<45		100	45	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50
trans-1,3-Dichloropropene	<64		100	64	ug/Kg	☆	12/18/24 10:25	12/28/24 04:54	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-14-121824

Lab Sample ID: 500-261951-12

Date Collected: 12/18/24 10:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<36		100	36	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
1,2,4-Trichlorobenzene	<31		100	31	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
1,1,1-Trichloroethane	<46		100	46	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
1,1,2-Trichloroethane	<74		100	74	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
Trichloroethene	<15		51	15	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
Trichlorofluoromethane	<45		100	45	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
1,2,3-Trichloropropane	<150		200	150	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
1,2,4-Trimethylbenzene	<30		100	30	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
1,3,5-Trimethylbenzene	<29		100	29	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
Vinyl chloride	<48		100	48	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50
Xylenes, Total	<24		51	24	ug/Kg	✧	12/18/24 10:25	12/28/24 04:54	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 10:25	12/28/24 04:54	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 10:25	12/28/24 04:54	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 10:25	12/28/24 04:54	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 10:25	12/28/24 04:54	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.26	J	0.57	0.21	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoropentanoic acid (PFPeA)	0.92		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorohexanoic acid (PFHxA)	0.57		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoroheptanoic acid (PFHpA)	1.0		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorooctanoic acid (PFOA)	2.6		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorononanoic acid (PFNA)	2.3		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorodecanoic acid (PFDA)	1.9		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoroundecanoic acid (PFUnA)	1.7		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorododecanoic acid (PFDoA)	0.25		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorotridecanoic acid (PFTriA)	0.42		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorotetradecanoic acid (PFTeA)	0.11	J	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.076		0.23	0.076	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorobutanesulfonic acid (PFBS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.53		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluoroheptanesulfonic acid (PFHpS)	0.083	J	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorooctanesulfonic acid (PFOS)	16		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorononanesulfonic acid (PFNS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorodecanesulfonic acid (PFDS)	0.077	J	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 00:48	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-14-121824

Lab Sample ID: 500-261951-12

Date Collected: 12/18/24 10:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	3.4		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
NEtFOSA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
NMeFOSA	0.070 J		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
NMeFOSAA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
NEtFOSAA	1.2		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
NMeFOSE	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
NEtFOSE	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
4:2 FTS	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
6:2 FTS	1.3		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
8:2 FTS	9.8		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
10:2 FTS	4.3		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
F-53B Major	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1
F-53B Minor	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 00:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C5 PFPeA	102		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 PFHxA	110		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C4 PFHpA	97		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C4 PFOA	84		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C5 PFNA	65		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 PFDA	61		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 PFUnA	67		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 PFDoA	71		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 PFTeDA	56		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 PFHxDA	66		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C3 PFBS	100		25 - 150	12/30/24 11:54	01/02/25 00:48	1
18O2 PFHxS	94		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C4 PFOS	61		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C8 FOSA	63		10 - 150	12/30/24 11:54	01/02/25 00:48	1
d3-NMeFOSAA	73		25 - 150	12/30/24 11:54	01/02/25 00:48	1
d5-NEtFOSAA	73		25 - 150	12/30/24 11:54	01/02/25 00:48	1
d-N-MeFOSA-M	57		10 - 150	12/30/24 11:54	01/02/25 00:48	1
d-N-EtFOSA-M	57		10 - 150	12/30/24 11:54	01/02/25 00:48	1
d7-N-MeFOSE-M	57		10 - 150	12/30/24 11:54	01/02/25 00:48	1
d9-N-EtFOSE-M	53		10 - 150	12/30/24 11:54	01/02/25 00:48	1
M2-4:2 FTS	107		25 - 150	12/30/24 11:54	01/02/25 00:48	1
M2-6:2 FTS	80		25 - 150	12/30/24 11:54	01/02/25 00:48	1
M2-8:2 FTS	57		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C3 HFPO-DA	95		25 - 150	12/30/24 11:54	01/02/25 00:48	1
13C2 10:2 FTS	69		25 - 150	12/30/24 11:54	01/02/25 00:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.95		0.058	0.058	%	-		12/27/24 10:46	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-14-121824
Date Collected: 12/18/24 10:25
Date Received: 12/20/24 10:15

Lab Sample ID: 500-261951-12
Matrix: Solid
Percent Solids: 87.2

General Chemistry (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (EPA Moisture)	12.8		0.1	0.1	%			12/27/24 10:00	1	
Percent Solids (EPA Moisture)	87.2		0.1	0.1	%			12/27/24 10:00	1	

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-15-121824

Lab Sample ID: 500-261951-13

Date Collected: 12/18/24 10:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		24	12	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Bromobenzene	<58		97	58	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Bromochloromethane	<48		97	48	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Bromoform	<93		97	93	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Bromomethane	<170		290	170	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Carbon tetrachloride	<40		97	40	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Chlorobenzene	<40		97	40	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Chloroethane	<46	*	490	46	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Chloroform	<89		190	89	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Chloromethane	<76		490	76	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
2-Chlorotoluene	<35		97	35	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
4-Chlorotoluene	<33		97	33	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
cis-1,2-Dichloroethene	<40		97	40	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
cis-1,3-Dichloropropene	<50		97	50	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Dibromochloromethane	<80		97	80	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,2-Dibromo-3-Chloropropane	<390		490	390	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,2-Dibromoethane (EDB)	<55		97	55	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Dibromomethane	<56		97	56	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,2-Dichlorobenzene	<46		97	46	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,3-Dichlorobenzene	<39		97	39	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,4-Dichlorobenzene	<44		97	44	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Dichlorobromomethane	<55		97	55	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Dichlorodifluoromethane	<170	*	290	170	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,1-Dichloroethane	<35		97	35	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,2-Dichloroethane	<56		97	56	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,1-Dichloroethene	<46		97	46	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,2-Dichloropropane	<36		97	36	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,3-Dichloropropane	<54		97	54	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
2,2-Dichloropropane	<47		490	47	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,1-Dichloropropene	<32		97	32	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Ethylbenzene	<17		24	17	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Hexachlorobutadiene	<52		97	52	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Isopropylbenzene	<28		97	28	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Isopropyl ether	<37		97	37	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Methylene Chloride	<210		490	210	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Methyl tert-butyl ether	<42		97	42	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Naphthalene	<43		97	43	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
n-Butylbenzene	<32		97	32	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
N-Propylbenzene	<31		97	31	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
p-Isopropyltoluene	<28		97	28	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
sec-Butylbenzene	<26		97	26	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Styrene	<30		97	30	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
tert-Butylbenzene	<26		97	26	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,1,1,2-Tetrachloroethane	<65		97	65	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
1,1,2,2-Tetrachloroethane	<63		97	63	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Tetrachloroethene	<38		97	38	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
Toluene	<20		24	20	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
trans-1,2-Dichloroethene	<43		97	43	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50
trans-1,3-Dichloropropene	<61		97	61	ug/Kg	✱	12/18/24 10:45	12/28/24 05:17	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-15-121824

Lab Sample ID: 500-261951-13

Date Collected: 12/18/24 10:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<34		97	34	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
1,2,4-Trichlorobenzene	<30		97	30	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
1,1,1-Trichloroethane	<44		97	44	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
1,1,2-Trichloroethane	<71		97	71	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
Trichloroethene	<14		49	14	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
Trichlorofluoromethane	<43		97	43	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
1,2,3-Trichloropropane	<150		190	150	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
1,2,4-Trimethylbenzene	<29		97	29	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
1,3,5-Trimethylbenzene	<28		97	28	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
Vinyl chloride	<46		97	46	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50
Xylenes, Total	<23		49	23	ug/Kg	✧	12/18/24 10:45	12/28/24 05:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124	12/18/24 10:45	12/28/24 05:17	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 10:45	12/28/24 05:17	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	12/18/24 10:45	12/28/24 05:17	50
Toluene-d8 (Surr)	101		75 - 120	12/18/24 10:45	12/28/24 05:17	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.21		0.57	0.21	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoropentanoic acid (PFPeA)	0.41		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorohexanoic acid (PFHxA)	0.21 J		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoroheptanoic acid (PFHpA)	0.74		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorooctanoic acid (PFOA)	0.77		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorononanoic acid (PFNA)	0.76		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorodecanoic acid (PFDA)	0.17 J		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoroundecanoic acid (PFUnA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorododecanoic acid (PFDoA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorotridecanoic acid (PFTriA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorotetradecanoic acid (PFTeA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.076		0.23	0.076	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorobutanesulfonic acid (PFBS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoropentanesulfonic acid (PFPeS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.12 J		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorooctanesulfonic acid (PFOS)	0.93		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorononanesulfonic acid (PFNS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorodecanesulfonic acid (PFDS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorododecanesulfonic acid (PFDoS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
Perfluorooctanesulfonamide (FOSA)	0.066 J		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
NEtFOSA	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1
NMeFOSA	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:02	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-15-121824

Lab Sample ID: 500-261951-13

Date Collected: 12/18/24 10:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
NEtFOSAA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
NMeFOSE	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
NEtFOSE	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
4:2 FTS	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
6:2 FTS	1.2		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
8:2 FTS	2.1		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
10:2 FTS	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
F-53B Major	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1
F-53B Minor	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 11:54	01/02/25 01:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	114		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C5 PFPeA	114		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 PFHxA	125		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C4 PFHpA	117		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C4 PFOA	115		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C5 PFNA	113		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 PFDA	114		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 PFUnA	110		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 PFDoA	86		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 PFTeDA	44		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 PFHxDA	63		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C3 PFBS	113		25 - 150	12/30/24 11:54	01/02/25 01:02	1
18O2 PFHxS	116		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C4 PFOS	111		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C8 FOSA	113		10 - 150	12/30/24 11:54	01/02/25 01:02	1
d3-NMeFOSAA	117		25 - 150	12/30/24 11:54	01/02/25 01:02	1
d5-NEtFOSAA	117		25 - 150	12/30/24 11:54	01/02/25 01:02	1
d-N-MeFOSA-M	98		10 - 150	12/30/24 11:54	01/02/25 01:02	1
d-N-EtFOSA-M	88		10 - 150	12/30/24 11:54	01/02/25 01:02	1
d7-N-MeFOSE-M	53		10 - 150	12/30/24 11:54	01/02/25 01:02	1
d9-N-EtFOSE-M	46		10 - 150	12/30/24 11:54	01/02/25 01:02	1
M2-4:2 FTS	128		25 - 150	12/30/24 11:54	01/02/25 01:02	1
M2-6:2 FTS	108		25 - 150	12/30/24 11:54	01/02/25 01:02	1
M2-8:2 FTS	107		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C3 HFPO-DA	110		25 - 150	12/30/24 11:54	01/02/25 01:02	1
13C2 10:2 FTS	94		25 - 150	12/30/24 11:54	01/02/25 01:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.20		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	13.5		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	86.5		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-16-121824

Lab Sample ID: 500-261951-14

Date Collected: 12/18/24 11:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<16		33	16	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Bromobenzene	<80		130	80	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Bromochloromethane	<67		130	67	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Bromoform	<130		130	130	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Bromomethane	<240		400	240	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Carbon tetrachloride	<55		130	55	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Chlorobenzene	<55		130	55	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Chloroethane	<63	*	670	63	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Chloroform	<120		270	120	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Chloromethane	<110		670	110	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
2-Chlorotoluene	<48		130	48	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
4-Chlorotoluene	<46		130	46	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
cis-1,2-Dichloroethene	<56		130	56	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
cis-1,3-Dichloropropene	<69		130	69	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Dibromochloromethane	<110		130	110	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,2-Dibromo-3-Chloropropane	<540		670	540	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,2-Dibromoethane (EDB)	<75		130	75	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Dibromomethane	<78		130	78	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,2-Dichlorobenzene	<64		130	64	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,3-Dichlorobenzene	<54		130	54	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,4-Dichlorobenzene	<61		130	61	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Dichlorobromomethane	<76		130	76	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Dichlorodifluoromethane	<240	*	400	240	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,1-Dichloroethane	<49		130	49	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,2-Dichloroethane	<77		130	77	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,1-Dichloroethene	<64		130	64	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,2-Dichloropropane	<50		130	50	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,3-Dichloropropane	<75		130	75	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
2,2-Dichloropropane	<65		670	65	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,1-Dichloropropene	<45		130	45	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Ethylbenzene	<23		33	23	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Hexachlorobutadiene	<72		130	72	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Isopropylbenzene	<39		130	39	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Isopropyl ether	<51		130	51	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Methylene Chloride	<290		670	290	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Methyl tert-butyl ether	<58		130	58	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Naphthalene	<59		130	59	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
n-Butylbenzene	<44		130	44	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
N-Propylbenzene	<43		130	43	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
p-Isopropyltoluene	<39		130	39	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
sec-Butylbenzene	<36		130	36	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Styrene	<41		130	41	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
tert-Butylbenzene	<35		130	35	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,1,1,2-Tetrachloroethane	<89		130	89	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
1,1,2,2-Tetrachloroethane	<86		130	86	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Tetrachloroethene	<52		130	52	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
Toluene	<28		33	28	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
trans-1,2-Dichloroethene	<59		130	59	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50
trans-1,3-Dichloropropene	<85		130	85	ug/Kg	☆	12/18/24 11:30	12/28/24 05:40	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-16-121824

Lab Sample ID: 500-261951-14

Date Collected: 12/18/24 11:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<47		130	47	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
1,2,4-Trichlorobenzene	<41		130	41	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
1,1,1-Trichloroethane	<60		130	60	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
1,1,2-Trichloroethane	<98		130	98	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
Trichloroethene	<20		67	20	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
Trichlorofluoromethane	<59		130	59	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
1,2,3-Trichloropropane	<200		270	200	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
1,2,4-Trimethylbenzene	<40		130	40	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
1,3,5-Trimethylbenzene	<38		130	38	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
Vinyl chloride	<63		130	63	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50
Xylenes, Total	<31		67	31	ug/Kg	✧	12/18/24 11:30	12/28/24 05:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124	12/18/24 11:30	12/28/24 05:40	50
Dibromofluoromethane (Surr)	93		75 - 120	12/18/24 11:30	12/28/24 05:40	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	12/18/24 11:30	12/28/24 05:40	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 11:30	12/28/24 05:40	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.41	J	0.59	0.21	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoropentanoic acid (PFPeA)	0.77		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorohexanoic acid (PFHxA)	0.32		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoroheptanoic acid (PFHpA)	0.39		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorooctanoic acid (PFOA)	0.17	J	0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorononanoic acid (PFNA)	0.70		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorodecanoic acid (PFDA)	0.064	J	0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoroundecanoic acid (PFUnA)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorododecanoic acid (PFDoA)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorotridecanoic acid (PFTriA)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.078		0.24	0.078	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorooctanesulfonic acid (PFOS)	0.68		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorononanesulfonic acid (PFNS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
Perfluorooctanesulfonamide (FOSA)	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
NEtFOSA	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
NMeFOSA	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1
NMeFOSAA	<0.059		0.24	0.059	ug/Kg	✧	12/30/24 11:54	01/02/25 01:16	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-16-121824

Lab Sample ID: 500-261951-14

Date Collected: 12/18/24 11:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
NMeFOSE	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
NEtFOSE	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
4:2 FTS	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
6:2 FTS	0.25		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
8:2 FTS	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
10:2 FTS	0.074 J		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
F-53B Major	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1
F-53B Minor	<0.059		0.24	0.059	ug/Kg	☆	12/30/24 11:54	01/02/25 01:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C5 PFPeA	93		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 PFHxA	101		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C4 PFHpA	91		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C4 PFOA	81		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C5 PFNA	61		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 PFDA	53		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 PFUnA	57		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 PFDoA	54		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 PFTeDA	44		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 PFHxDA	68		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C3 PFBS	97		25 - 150	12/30/24 11:54	01/02/25 01:16	1
18O2 PFHxS	92		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C4 PFOS	57		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C8 FOSA	62		10 - 150	12/30/24 11:54	01/02/25 01:16	1
d3-NMeFOSAA	59		25 - 150	12/30/24 11:54	01/02/25 01:16	1
d5-NEtFOSAA	61		25 - 150	12/30/24 11:54	01/02/25 01:16	1
d-N-MeFOSA-M	56		10 - 150	12/30/24 11:54	01/02/25 01:16	1
d-N-EtFOSA-M	51		10 - 150	12/30/24 11:54	01/02/25 01:16	1
d7-N-MeFOSE-M	54		10 - 150	12/30/24 11:54	01/02/25 01:16	1
d9-N-EtFOSE-M	48		10 - 150	12/30/24 11:54	01/02/25 01:16	1
M2-4:2 FTS	95		25 - 150	12/30/24 11:54	01/02/25 01:16	1
M2-6:2 FTS	74		25 - 150	12/30/24 11:54	01/02/25 01:16	1
M2-8:2 FTS	50		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C3 HFPO-DA	92		25 - 150	12/30/24 11:54	01/02/25 01:16	1
13C2 10:2 FTS	55		25 - 150	12/30/24 11:54	01/02/25 01:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.27		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	15.1		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	84.9		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		37	18	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Bromobenzene	<89		150	89	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Bromochloromethane	<75		150	75	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Bromoform	<140		150	140	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Bromomethane	<270		450	270	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Carbon tetrachloride	<62		150	62	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Chlorobenzene	<62		150	62	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Chloroethane	<70	*	750	70	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Chloroform	<140		300	140	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Chloromethane	<120		750	120	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
2-Chlorotoluene	<54		150	54	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
4-Chlorotoluene	<51		150	51	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
cis-1,2-Dichloroethene	<62		150	62	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
cis-1,3-Dichloropropene	<78		150	78	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Dibromochloromethane	<120		150	120	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,2-Dibromo-3-Chloropropane	<610		750	610	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,2-Dibromoethane (EDB)	<84		150	84	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Dibromomethane	<87		150	87	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,2-Dichlorobenzene	<72		150	72	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,3-Dichlorobenzene	<61		150	61	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,4-Dichlorobenzene	<68		150	68	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Dichlorobromomethane	<85		150	85	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Dichlorodifluoromethane	<260	*	450	260	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,1-Dichloroethane	<54		150	54	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,2-Dichloroethane	<87		150	87	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,1-Dichloroethene	<72		150	72	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,2-Dichloropropane	<56		150	56	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,3-Dichloropropane	<84		150	84	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
2,2-Dichloropropane	<73		750	73	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,1-Dichloropropene	<50		150	50	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Ethylbenzene	<26		37	26	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Hexachlorobutadiene	<81		150	81	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Isopropylbenzene	<44		150	44	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Isopropyl ether	<58		150	58	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Methylene Chloride	<320		750	320	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Methyl tert-butyl ether	<65		150	65	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Naphthalene	<66		150	66	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
n-Butylbenzene	<49		150	49	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
N-Propylbenzene	<48		150	48	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
p-Isopropyltoluene	<44		150	44	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
sec-Butylbenzene	<41		150	41	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Styrene	<46		150	46	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
tert-Butylbenzene	<40		150	40	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,1,1,2-Tetrachloroethane	<100		150	100	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
1,1,1,2,2-Tetrachloroethane	<97		150	97	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Tetrachloroethene	<58		150	58	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
Toluene	<32		37	32	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
trans-1,2-Dichloroethene	<66		150	66	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50
trans-1,3-Dichloropropene	<95		150	95	ug/Kg	☆	12/18/24 11:55	12/28/24 06:03	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<53		150	53	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
1,2,4-Trichlorobenzene	<46		150	46	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
1,1,1-Trichloroethane	<68		150	68	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
1,1,2-Trichloroethane	<110		150	110	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
Trichloroethene	<22		75	22	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
Trichlorofluoromethane	<66		150	66	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
1,2,3-Trichloropropane	<220		300	220	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
1,2,4-Trimethylbenzene	<45		150	45	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
1,3,5-Trimethylbenzene	<43		150	43	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
Vinyl chloride	<70		150	70	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50
Xylenes, Total	<35		75	35	ug/Kg	✧	12/18/24 11:55	12/28/24 06:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 11:55	12/28/24 06:03	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 11:55	12/28/24 06:03	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 126	12/18/24 11:55	12/28/24 06:03	50
Toluene-d8 (Surr)	100		75 - 120	12/18/24 11:55	12/28/24 06:03	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.25	J	0.57	0.21	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoropentanoic acid (PFPeA)	0.81		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorohexanoic acid (PFHxA)	0.94		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoroheptanoic acid (PFHpA)	1.2		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorooctanoic acid (PFOA)	3.1		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorononanoic acid (PFNA)	10		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorodecanoic acid (PFDA)	6.2		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoroundecanoic acid (PFUnA)	5.2		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorododecanoic acid (PFDoA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorotridecanoic acid (PFTriA)	0.11	J	0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.075		0.23	0.075	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorobutanesulfonic acid (PFBS)	0.27		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorooctanesulfonic acid (PFOS)	2.0		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorononanesulfonic acid (PFNS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1
Perfluorooctanesulfonamide (FOSA)	0.68		0.23	0.057	ug/Kg	✧	12/30/24 11:54	01/02/25 01:58	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
NMeFOSA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
NMeFOSAA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
NEtFOSAA	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
NMeFOSE	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
NEtFOSE	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
4:2 FTS	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
6:2 FTS	3.9		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
8:2 FTS	75 E		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
10:2 FTS	4.9		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
F-53B Major	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
F-53B Minor	<0.057		0.23	0.057	ug/Kg	✱	12/30/24 11:54	01/02/25 01:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C5 PFPeA	103		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 PFHxA	105		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C4 PFHpA	101		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C4 PFOA	92		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C5 PFNA	83		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 PFDA	62		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 PFUnA	48		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 PFDoA	37		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 PFTeDA	37		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 PFHxDA	49		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C3 PFBS	104		25 - 150				12/30/24 11:54	01/02/25 01:58	1
18O2 PFHxS	100		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C4 PFOS	75		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C8 FOSA	68		10 - 150				12/30/24 11:54	01/02/25 01:58	1
d3-NMeFOSAA	49		25 - 150				12/30/24 11:54	01/02/25 01:58	1
d5-NEtFOSAA	45		25 - 150				12/30/24 11:54	01/02/25 01:58	1
d-N-MeFOSA-M	46		10 - 150				12/30/24 11:54	01/02/25 01:58	1
d-N-EtFOSA-M	41		10 - 150				12/30/24 11:54	01/02/25 01:58	1
d7-N-MeFOSE-M	42		10 - 150				12/30/24 11:54	01/02/25 01:58	1
d9-N-EtFOSE-M	35		10 - 150				12/30/24 11:54	01/02/25 01:58	1
M2-4:2 FTS	98		25 - 150				12/30/24 11:54	01/02/25 01:58	1
M2-6:2 FTS	88		25 - 150				12/30/24 11:54	01/02/25 01:58	1
M2-8:2 FTS	67		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C3 HFPO-DA	103		25 - 150				12/30/24 11:54	01/02/25 01:58	1
13C2 10:2 FTS	37		25 - 150				12/30/24 11:54	01/02/25 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		5.7	2.1	ug/Kg	✱	12/30/24 11:54	01/03/25 00:11	10
Perfluoropentanoic acid (PFPeA)	0.80 J		2.3	0.57	ug/Kg	✱	12/30/24 11:54	01/03/25 00:11	10
Perfluorohexanoic acid (PFHxA)	0.91 J		2.3	0.57	ug/Kg	✱	12/30/24 11:54	01/03/25 00:11	10
Perfluoroheptanoic acid (PFHpA)	1.2 J		2.3	0.57	ug/Kg	✱	12/30/24 11:54	01/03/25 00:11	10

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3.0		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorononanoic acid (PFNA)	11		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorodecanoic acid (PFDA)	6.1		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluoroundecanoic acid (PFUnA)	6.4		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorododecanoic acid (PFDoA)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorotridecanoic acid (PFTriA)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorotetradecanoic acid (PFTeA)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluoro-n-octadecanoic acid (PFODA)	<0.75		2.3	0.75	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorobutanesulfonic acid (PFBS)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluoropentanesulfonic acid (PFPeS)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluoroheptanesulfonic acid (PFHpS)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorooctanesulfonic acid (PFOS)	2.1 J		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorononanesulfonic acid (PFNS)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorodecanesulfonic acid (PFDS)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorododecanesulfonic acid (PFDoS)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Perfluorooctanesulfonamide (FOSA)	0.74 J		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
NEtFOSA	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
NMeFOSA	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
NMeFOSAA	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
NEtFOSAA	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
NMeFOSE	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
NEtFOSE	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
4:2 FTS	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
6:2 FTS	4.0		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
8:2 FTS	75		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
10:2 FTS	4.6		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
F-53B Major	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10
F-53B Minor	<0.57		2.3	0.57	ug/Kg	✧	12/30/24 11:54	01/03/25 00:11	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C5 PFPeA	101		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C2 PFHxA	102		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C4 PFHpA	101		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C4 PFOA	98		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C5 PFNA	82		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C2 PFDA	60		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C2 PFUnA	43		25 - 150	12/30/24 11:54	01/03/25 00:11	10

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.5

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	35		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C2 PFTeDA	39		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C2 PFHxDA	57		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C3 PFBS	104		25 - 150	12/30/24 11:54	01/03/25 00:11	10
18O2 PFHxS	100		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C4 PFOS	74		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C8 FOSA	66		10 - 150	12/30/24 11:54	01/03/25 00:11	10
d3-NMeFOSAA	42		25 - 150	12/30/24 11:54	01/03/25 00:11	10
d5-NEtFOSAA	44		25 - 150	12/30/24 11:54	01/03/25 00:11	10
d-N-MeFOSA-M	40		10 - 150	12/30/24 11:54	01/03/25 00:11	10
d-N-EtFOSA-M	36		10 - 150	12/30/24 11:54	01/03/25 00:11	10
d7-N-MeFOSE-M	42		10 - 150	12/30/24 11:54	01/03/25 00:11	10
d9-N-EtFOSE-M	34		10 - 150	12/30/24 11:54	01/03/25 00:11	10
M2-4:2 FTS	85		25 - 150	12/30/24 11:54	01/03/25 00:11	10
M2-6:2 FTS	88		25 - 150	12/30/24 11:54	01/03/25 00:11	10
M2-8:2 FTS	66		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C3 HFPO-DA	102		25 - 150	12/30/24 11:54	01/03/25 00:11	10
13C2 10:2 FTS	35		25 - 150	12/30/24 11:54	01/03/25 00:11	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.064		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	12.5		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	87.5		0.1	0.1	%			12/27/24 10:00	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-18-121824

Lab Sample ID: 500-261951-16

Date Collected: 12/18/24 12:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		30	15	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Bromobenzene	<72		120	72	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Bromochloromethane	<61		120	61	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Bromoform	<120		120	120	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Bromomethane	<220		360	220	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Carbon tetrachloride	<50		120	50	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Chlorobenzene	<50		120	50	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Chloroethane	<57	*-	610	57	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Chloroform	<110		240	110	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Chloromethane	<96		610	96	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
2-Chlorotoluene	<44		120	44	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
4-Chlorotoluene	<42		120	42	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
cis-1,2-Dichloroethene	<50		120	50	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
cis-1,3-Dichloropropene	<63		120	63	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Dibromochloromethane	<100		120	100	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,2-Dibromo-3-Chloropropane	<490		610	490	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,2-Dibromoethane (EDB)	<68		120	68	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Dibromomethane	<71		120	71	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,2-Dichlorobenzene	<58		120	58	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,3-Dichlorobenzene	<49		120	49	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,4-Dichlorobenzene	<55		120	55	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Dichlorobromomethane	<69		120	69	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Dichlorodifluoromethane	<210	*-	360	210	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,1-Dichloroethane	<44		120	44	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,2-Dichloroethane	<70		120	70	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,1-Dichloroethene	<58		120	58	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,2-Dichloropropane	<45		120	45	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,3-Dichloropropane	<68		120	68	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
2,2-Dichloropropane	<59		610	59	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,1-Dichloropropene	<41		120	41	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Ethylbenzene	<21		30	21	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Hexachlorobutadiene	<65		120	65	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Isopropylbenzene	<35		120	35	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Isopropyl ether	<47		120	47	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Methylene Chloride	<260		610	260	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Methyl tert-butyl ether	<53		120	53	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Naphthalene	<54		120	54	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
n-Butylbenzene	<40		120	40	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
N-Propylbenzene	<39		120	39	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
p-Isopropyltoluene	<36		120	36	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
sec-Butylbenzene	<33		120	33	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Styrene	<37		120	37	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
tert-Butylbenzene	<32		120	32	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,1,1,2-Tetrachloroethane	<81		120	81	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
1,1,2,2-Tetrachloroethane	<79		120	79	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Tetrachloroethene	<47		120	47	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
Toluene	<26		30	26	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
trans-1,2-Dichloroethene	<53		120	53	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50
trans-1,3-Dichloropropene	<77		120	77	ug/Kg	☆	12/18/24 12:20	12/28/24 06:26	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-18-121824

Lab Sample ID: 500-261951-16

Date Collected: 12/18/24 12:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<43		120	43	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
1,2,4-Trichlorobenzene	<38		120	38	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
1,1,1-Trichloroethane	<55		120	55	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
1,1,2-Trichloroethane	<89		120	89	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
Trichloroethene	<18		61	18	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
Trichlorofluoromethane	<54		120	54	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
1,2,3-Trichloropropane	<180		240	180	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
1,2,4-Trimethylbenzene	<37		120	37	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
1,3,5-Trimethylbenzene	<35		120	35	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
Vinyl chloride	<57		120	57	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50
Xylenes, Total	<29		61	29	ug/Kg	✧	12/18/24 12:20	12/28/24 06:26	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124	12/18/24 12:20	12/28/24 06:26	50
Dibromofluoromethane (Surr)	92		75 - 120	12/18/24 12:20	12/28/24 06:26	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 126	12/18/24 12:20	12/28/24 06:26	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 12:20	12/28/24 06:26	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.33	J	0.55	0.20	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoropentanoic acid (PFPeA)	0.61		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorohexanoic acid (PFHxA)	0.33		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoroheptanoic acid (PFHpA)	0.39		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorooctanoic acid (PFOA)	0.42		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorononanoic acid (PFNA)	0.078	J I	0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorodecanoic acid (PFDA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoroundecanoic acid (PFUnA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorododecanoic acid (PFDoA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorotridecanoic acid (PFTriA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.072		0.22	0.072	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorooctanesulfonic acid (PFOS)	0.41		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorononanesulfonic acid (PFNS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
Perfluorooctanesulfonamide (FOSA)	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
NEtFOSA	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
NMeFOSA	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1
NMeFOSAA	<0.055		0.22	0.055	ug/Kg	✧	12/30/24 11:54	01/02/25 02:12	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-18-121824

Lab Sample ID: 500-261951-16

Date Collected: 12/18/24 12:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
NMeFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
NEtFOSE	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
4:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
6:2 FTS	0.061	J	0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
8:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
10:2 FTS	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
F-53B Major	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1
F-53B Minor	<0.055		0.22	0.055	ug/Kg	☆	12/30/24 11:54	01/02/25 02:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	100		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C5 PFPeA	99		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 PFHxA	106		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C4 PFHpA	94		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C4 PFOA	80		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C5 PFNA	68		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 PFDA	65		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 PFUnA	70		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 PFDoA	59		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 PFTeDA	43		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 PFHxDA	59		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C3 PFBS	99		25 - 150	12/30/24 11:54	01/02/25 02:12	1
18O2 PFHxS	90		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C4 PFOS	65		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C8 FOSA	66		10 - 150	12/30/24 11:54	01/02/25 02:12	1
d3-NMeFOSAA	68		25 - 150	12/30/24 11:54	01/02/25 02:12	1
d5-NEtFOSAA	68		25 - 150	12/30/24 11:54	01/02/25 02:12	1
d-N-MeFOSA-M	64		10 - 150	12/30/24 11:54	01/02/25 02:12	1
d-N-EtFOSA-M	66		10 - 150	12/30/24 11:54	01/02/25 02:12	1
d7-N-MeFOSE-M	64		10 - 150	12/30/24 11:54	01/02/25 02:12	1
d9-N-EtFOSE-M	65		10 - 150	12/30/24 11:54	01/02/25 02:12	1
M2-4:2 FTS	100		25 - 150	12/30/24 11:54	01/02/25 02:12	1
M2-6:2 FTS	74		25 - 150	12/30/24 11:54	01/02/25 02:12	1
M2-8:2 FTS	59		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C3 HFPO-DA	96		25 - 150	12/30/24 11:54	01/02/25 02:12	1
13C2 10:2 FTS	63		25 - 150	12/30/24 11:54	01/02/25 02:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.063		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	9.3		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	90.7		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-19-121824

Lab Sample ID: 500-261951-17

Date Collected: 12/18/24 12:35

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<14		29	14	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Bromobenzene	<70		120	70	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Bromochloromethane	<58		120	58	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Bromoform	<110		120	110	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Bromomethane	<210		350	210	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Carbon tetrachloride	<49		120	49	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Chlorobenzene	<48		120	48	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Chloroethane	<55	*-	590	55	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Chloroform	<110		230	110	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Chloromethane	<92		590	92	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
2-Chlorotoluene	<42		120	42	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
4-Chlorotoluene	<40		120	40	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
cis-1,2-Dichloroethene	<49		120	49	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
cis-1,3-Dichloropropene	<61		120	61	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Dibromochloromethane	<97		120	97	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,2-Dibromo-3-Chloropropane	<480		590	480	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,2-Dibromoethane (EDB)	<66		120	66	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Dibromomethane	<68		120	68	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,2-Dichlorobenzene	<56		120	56	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,3-Dichlorobenzene	<47		120	47	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,4-Dichlorobenzene	<53		120	53	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Dichlorobromomethane	<67		120	67	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Dichlorodifluoromethane	<210	*-	350	210	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,1-Dichloroethane	<43		120	43	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,2-Dichloroethane	<68		120	68	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,1-Dichloroethene	<56		120	56	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,2-Dichloropropane	<44		120	44	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,3-Dichloropropane	<65		120	65	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
2,2-Dichloropropane	<57		590	57	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,1-Dichloropropene	<39		120	39	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Ethylbenzene	<20		29	20	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Hexachlorobutadiene	<63		120	63	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Isopropylbenzene	<34		120	34	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Isopropyl ether	<45		120	45	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Methylene Chloride	<250		590	250	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Methyl tert-butyl ether	<51		120	51	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Naphthalene	<52		120	52	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
n-Butylbenzene	<38		120	38	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
N-Propylbenzene	<38		120	38	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
p-Isopropyltoluene	<34		120	34	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
sec-Butylbenzene	<32		120	32	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Styrene	<36		120	36	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
tert-Butylbenzene	<31		120	31	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,1,1,2-Tetrachloroethane	<78		120	78	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
1,1,2,2-Tetrachloroethane	<76		120	76	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Tetrachloroethene	<46		120	46	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
Toluene	<25		29	25	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
trans-1,2-Dichloroethene	<51		120	51	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50
trans-1,3-Dichloropropene	<74		120	74	ug/Kg	☆	12/18/24 12:35	12/28/24 06:49	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-19-121824

Lab Sample ID: 500-261951-17

Date Collected: 12/18/24 12:35

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<41		120	41	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
1,2,4-Trichlorobenzene	<36		120	36	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
1,1,1-Trichloroethane	<53		120	53	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
1,1,2-Trichloroethane	<85		120	85	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
Trichloroethene	<17		59	17	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
Trichlorofluoromethane	<52		120	52	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
1,2,3-Trichloropropane	<180		230	180	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
1,2,4-Trimethylbenzene	<35		120	35	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
1,3,5-Trimethylbenzene	<34		120	34	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
Vinyl chloride	<55		120	55	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50
Xylenes, Total	<28		59	28	ug/Kg	✧	12/18/24 12:35	12/28/24 06:49	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124	12/18/24 12:35	12/28/24 06:49	50
Dibromofluoromethane (Surr)	93		75 - 120	12/18/24 12:35	12/28/24 06:49	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	12/18/24 12:35	12/28/24 06:49	50
Toluene-d8 (Surr)	102		75 - 120	12/18/24 12:35	12/28/24 06:49	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.56	0.20	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoropentanoic acid (PFPeA)	0.067	J	0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorohexanoic acid (PFHxA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoroheptanoic acid (PFHpA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorooctanoic acid (PFOA)	0.072	J	0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorononanoic acid (PFNA)	0.082	J	0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorodecanoic acid (PFDA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoroundecanoic acid (PFUnA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorododecanoic acid (PFDoA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorotridecanoic acid (PFTriA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.074		0.22	0.074	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoropentanesulfonic acid (PFPeS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorooctanesulfonic acid (PFOS)	0.16	J	0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorononanesulfonic acid (PFNS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
Perfluorooctanesulfonamide (FOSA)	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
NEtFOSA	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
NMeFOSA	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1
NMeFOSAA	<0.056		0.22	0.056	ug/Kg	✧	12/30/24 11:54	01/02/25 02:26	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-19-121824

Lab Sample ID: 500-261951-17

Date Collected: 12/18/24 12:35

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
NMeFOSE	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
NEtFOSE	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
4:2 FTS	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
6:2 FTS	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
8:2 FTS	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
10:2 FTS	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
F-53B Major	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1
F-53B Minor	<0.056		0.22	0.056	ug/Kg	☆	12/30/24 11:54	01/02/25 02:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C5 PFPeA	98		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 PFHxA	97		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C4 PFHpA	89		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C4 PFOA	75		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C5 PFNA	53		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 PFDA	39		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 PFUnA	36		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 PFDoA	31		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 PFTeDA	33		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 PFHxDA	50		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C3 PFBS	96		25 - 150	12/30/24 11:54	01/02/25 02:26	1
18O2 PFHxS	91		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C4 PFOS	48		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C8 FOSA	51		10 - 150	12/30/24 11:54	01/02/25 02:26	1
d3-NMeFOSAA	35		25 - 150	12/30/24 11:54	01/02/25 02:26	1
d5-NEtFOSAA	35		25 - 150	12/30/24 11:54	01/02/25 02:26	1
d-N-MeFOSA-M	43		10 - 150	12/30/24 11:54	01/02/25 02:26	1
d-N-EtFOSA-M	41		10 - 150	12/30/24 11:54	01/02/25 02:26	1
d7-N-MeFOSE-M	41		10 - 150	12/30/24 11:54	01/02/25 02:26	1
d9-N-EtFOSE-M	37		10 - 150	12/30/24 11:54	01/02/25 02:26	1
M2-4:2 FTS	88		25 - 150	12/30/24 11:54	01/02/25 02:26	1
M2-6:2 FTS	71		25 - 150	12/30/24 11:54	01/02/25 02:26	1
M2-8:2 FTS	34		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C3 HFPO-DA	90		25 - 150	12/30/24 11:54	01/02/25 02:26	1
13C2 10:2 FTS	30		25 - 150	12/30/24 11:54	01/02/25 02:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.13		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	11.2		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	88.8		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-20-121824

Lab Sample ID: 500-261951-18

Date Collected: 12/18/24 12:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		30	15	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Bromobenzene	<72		120	72	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Bromochloromethane	<60		120	60	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Bromoform	<120		120	120	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Bromomethane	<220		360	220	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Carbon tetrachloride	<50		120	50	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Chlorobenzene	<49		120	49	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Chloroethane	<56	*-	600	56	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Chloroform	<110		240	110	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Chloromethane	<94		600	94	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
2-Chlorotoluene	<43		120	43	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
4-Chlorotoluene	<41		120	41	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
cis-1,2-Dichloroethene	<50		120	50	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
cis-1,3-Dichloropropene	<62		120	62	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Dibromochloromethane	<99		120	99	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,2-Dibromo-3-Chloropropane	<490		600	490	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,2-Dibromoethane (EDB)	<67		120	67	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Dibromomethane	<70		120	70	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,2-Dichlorobenzene	<57		120	57	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,3-Dichlorobenzene	<49		120	49	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,4-Dichlorobenzene	<55		120	55	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Dichlorobromomethane	<68		120	68	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Dichlorodifluoromethane	<210	*-	360	210	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,1-Dichloroethane	<44		120	44	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,2-Dichloroethane	<69		120	69	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,1-Dichloroethene	<57		120	57	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,2-Dichloropropane	<45		120	45	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,3-Dichloropropane	<67		120	67	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
2,2-Dichloropropane	<58		600	58	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,1-Dichloropropene	<40		120	40	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Ethylbenzene	<21		30	21	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Hexachlorobutadiene	<65		120	65	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Isopropylbenzene	<35		120	35	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Isopropyl ether	<46		120	46	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Methylene Chloride	<260		600	260	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Methyl tert-butyl ether	<52		120	52	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Naphthalene	<53		120	53	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
n-Butylbenzene	<39		120	39	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
N-Propylbenzene	<38		120	38	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
p-Isopropyltoluene	<35		120	35	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
sec-Butylbenzene	<33		120	33	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Styrene	<37		120	37	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
tert-Butylbenzene	<32		120	32	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,1,1,2-Tetrachloroethane	<80		120	80	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
1,1,2,2-Tetrachloroethane	<77		120	77	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Tetrachloroethene	<47		120	47	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
Toluene	<25		30	25	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
trans-1,2-Dichloroethene	<53		120	53	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50
trans-1,3-Dichloropropene	<76		120	76	ug/Kg	☆	12/18/24 12:55	12/28/24 07:11	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-20-121824

Lab Sample ID: 500-261951-18

Date Collected: 12/18/24 12:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<42		120	42	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
1,2,4-Trichlorobenzene	<37		120	37	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
1,1,1-Trichloroethane	<54		120	54	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
1,1,2-Trichloroethane	<88		120	88	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
Trichloroethene	<18		60	18	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
Trichlorofluoromethane	<53		120	53	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
1,2,3-Trichloropropane	<180		240	180	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
1,2,4-Trimethylbenzene	<36		120	36	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
1,3,5-Trimethylbenzene	<34		120	34	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
Vinyl chloride	<56		120	56	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50
Xylenes, Total	<28		60	28	ug/Kg	✧	12/18/24 12:55	12/28/24 07:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/18/24 12:55	12/28/24 07:11	50
Dibromofluoromethane (Surr)	91		75 - 120	12/18/24 12:55	12/28/24 07:11	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 12:55	12/28/24 07:11	50
Toluene-d8 (Surr)	100		75 - 120	12/18/24 12:55	12/28/24 07:11	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.21		0.58	0.21	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoropentanoic acid (PFPeA)	0.13	J	0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorohexanoic acid (PFHxA)	0.074	J	0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoroheptanoic acid (PFHpA)	0.089	J	0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorooctanoic acid (PFOA)	0.29		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorononanoic acid (PFNA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorodecanoic acid (PFDA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoroundecanoic acid (PFUnA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorododecanoic acid (PFDoA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorotridecanoic acid (PFTriA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.076		0.23	0.076	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorooctanesulfonic acid (PFOS)	0.88	I	0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorononanesulfonic acid (PFNS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
Perfluorooctanesulfonamide (FOSA)	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
NEtFOSA	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
NMeFOSA	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1
NMeFOSAA	<0.058		0.23	0.058	ug/Kg	✧	12/30/24 11:54	01/02/25 02:40	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-20-121824

Lab Sample ID: 500-261951-18

Date Collected: 12/18/24 12:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
NMeFOSE	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
NEtFOSE	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
4:2 FTS	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
6:2 FTS	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
8:2 FTS	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
10:2 FTS	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
F-53B Major	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
F-53B Minor	<0.058		0.23	0.058	ug/Kg	☆	12/30/24 11:54	01/02/25 02:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C5 PFPeA	97		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 PFHxA	100		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C4 PFHpA	87		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C4 PFOA	73		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C5 PFNA	60		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 PFDA	61		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 PFUnA	68		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 PFDoA	66		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 PFTeDA	53		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 PFHxDA	73		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C3 PFBS	101		25 - 150				12/30/24 11:54	01/02/25 02:40	1
18O2 PFHxS	85		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C4 PFOS	58		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C8 FOSA	57		10 - 150				12/30/24 11:54	01/02/25 02:40	1
d3-NMeFOSAA	73		25 - 150				12/30/24 11:54	01/02/25 02:40	1
d5-NEtFOSAA	76		25 - 150				12/30/24 11:54	01/02/25 02:40	1
d-N-MeFOSA-M	55		10 - 150				12/30/24 11:54	01/02/25 02:40	1
d-N-EtFOSA-M	58		10 - 150				12/30/24 11:54	01/02/25 02:40	1
d7-N-MeFOSE-M	50		10 - 150				12/30/24 11:54	01/02/25 02:40	1
d9-N-EtFOSE-M	53		10 - 150				12/30/24 11:54	01/02/25 02:40	1
M2-4:2 FTS	110		25 - 150				12/30/24 11:54	01/02/25 02:40	1
M2-6:2 FTS	74		25 - 150				12/30/24 11:54	01/02/25 02:40	1
M2-8:2 FTS	63		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C3 HFPO-DA	89		25 - 150				12/30/24 11:54	01/02/25 02:40	1
13C2 10:2 FTS	76		25 - 150				12/30/24 11:54	01/02/25 02:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.13		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	13.8		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	86.2		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-21-121824

Lab Sample ID: 500-261951-19

Date Collected: 12/18/24 13:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 94.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<14		28	14	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Bromobenzene	<67		110	67	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Bromochloromethane	<57		110	57	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Bromoform	<110		110	110	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Bromomethane	<200		340	200	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Carbon tetrachloride	<47		110	47	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Chlorobenzene	<46		110	46	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Chloroethane	<53	*-	570	53	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Chloroform	<100		230	100	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Chloromethane	<89		570	89	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
2-Chlorotoluene	<41		110	41	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
4-Chlorotoluene	<39		110	39	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
cis-1,2-Dichloroethene	<47		110	47	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
cis-1,3-Dichloropropene	<59		110	59	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Dibromochloromethane	<94		110	94	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2-Dibromo-3-Chloropropane	<460		570	460	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2-Dibromoethane (EDB)	<64		110	64	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Dibromomethane	<66		110	66	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2-Dichlorobenzene	<54		110	54	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,3-Dichlorobenzene	<46		110	46	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,4-Dichlorobenzene	<51		110	51	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Dichlorobromomethane	<64		110	64	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Dichlorodifluoromethane	<200	*-	340	200	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1-Dichloroethane	<41		110	41	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2-Dichloroethane	<65		110	65	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1-Dichloroethene	<54		110	54	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2-Dichloropropane	<42		110	42	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,3-Dichloropropane	<63		110	63	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
2,2-Dichloropropane	<55		570	55	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1-Dichloropropene	<38		110	38	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Ethylbenzene	<19		28	19	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Hexachlorobutadiene	<61		110	61	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Isopropylbenzene	<33		110	33	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Isopropyl ether	<44		110	44	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Methylene Chloride	<240		570	240	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Methyl tert-butyl ether	<49		110	49	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Naphthalene	<50		110	50	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
n-Butylbenzene	<37		110	37	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
N-Propylbenzene	<36		110	36	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
p-Isopropyltoluene	<33		110	33	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
sec-Butylbenzene	<31		110	31	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Styrene	<35		110	35	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
tert-Butylbenzene	<30		110	30	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1,1,2-Tetrachloroethane	<75		110	75	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1,2,2-Tetrachloroethane	<73		110	73	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Tetrachloroethene	<44		110	44	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Toluene	<24		28	24	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
trans-1,2-Dichloroethene	<50		110	50	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
trans-1,3-Dichloropropene	<72		110	72	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-21-121824

Lab Sample ID: 500-261951-19

Date Collected: 12/18/24 13:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 94.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<40		110	40	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2,4-Trichlorobenzene	<35		110	35	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1,1-Trichloroethane	<51		110	51	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,1,2-Trichloroethane	<83		110	83	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Trichloroethene	<17		57	17	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Trichlorofluoromethane	<50		110	50	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2,3-Trichloropropane	<170		230	170	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,2,4-Trimethylbenzene	<34		110	34	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
1,3,5-Trimethylbenzene	<33		110	33	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Vinyl chloride	<53		110	53	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50
Xylenes, Total	<27		57	27	ug/Kg	✱	12/18/24 13:10	12/28/24 07:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124	12/18/24 13:10	12/28/24 07:34	50
Dibromofluoromethane (Surr)	93		75 - 120	12/18/24 13:10	12/28/24 07:34	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	12/18/24 13:10	12/28/24 07:34	50
Toluene-d8 (Surr)	101		75 - 120	12/18/24 13:10	12/28/24 07:34	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.19		0.53	0.19	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoropentanoic acid (PFPeA)	0.11	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorohexanoic acid (PFHxA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoroheptanoic acid (PFHpA)	0.097	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorooctanoic acid (PFOA)	0.099	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorononanoic acid (PFNA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorodecanoic acid (PFDA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoroundecanoic acid (PFUnA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorododecanoic acid (PFDoA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorotridecanoic acid (PFTriA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.070		0.21	0.070	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorobutanesulfonic acid (PFBS)	1.1		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorononanesulfonic acid (PFNS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
Perfluorooctanesulfonamide (FOSA)	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
NEtFOSA	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
NMeFOSA	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1
NMeFOSAA	<0.053		0.21	0.053	ug/Kg	✱	12/30/24 11:54	01/02/25 02:54	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-21-121824

Lab Sample ID: 500-261951-19

Date Collected: 12/18/24 13:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
NMeFOSE	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
NEtFOSE	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
4:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
6:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
8:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
10:2 FTS	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
F-53B Major	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
F-53B Minor	<0.053		0.21	0.053	ug/Kg	☆	12/30/24 11:54	01/02/25 02:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C5 PFPeA	94		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 PFHxA	100		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C4 PFHpA	93		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C4 PFOA	78		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C5 PFNA	59		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 PFDA	52		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 PFUnA	51		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 PFDoA	43		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 PFTeDA	35		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 PFHxDA	57		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C3 PFBS	96		25 - 150				12/30/24 11:54	01/02/25 02:54	1
18O2 PFHxS	90		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C4 PFOS	54		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C8 FOSA	58		10 - 150				12/30/24 11:54	01/02/25 02:54	1
d3-NMeFOSAA	53		25 - 150				12/30/24 11:54	01/02/25 02:54	1
d5-NEtFOSAA	51		25 - 150				12/30/24 11:54	01/02/25 02:54	1
d-N-MeFOSA-M	53		10 - 150				12/30/24 11:54	01/02/25 02:54	1
d-N-EtFOSA-M	51		10 - 150				12/30/24 11:54	01/02/25 02:54	1
d7-N-MeFOSE-M	47		10 - 150				12/30/24 11:54	01/02/25 02:54	1
d9-N-EtFOSE-M	44		10 - 150				12/30/24 11:54	01/02/25 02:54	1
M2-4:2 FTS	96		25 - 150				12/30/24 11:54	01/02/25 02:54	1
M2-6:2 FTS	70		25 - 150				12/30/24 11:54	01/02/25 02:54	1
M2-8:2 FTS	46		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C3 HFPO-DA	91		25 - 150				12/30/24 11:54	01/02/25 02:54	1
13C2 10:2 FTS	48		25 - 150				12/30/24 11:54	01/02/25 02:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.18		0.058	0.058	%			12/27/24 10:46	1
Percent Moisture (EPA Moisture)	5.9		0.1	0.1	%			12/27/24 10:00	1
Percent Solids (EPA Moisture)	94.1		0.1	0.1	%			12/27/24 10:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-22-121824

Lab Sample ID: 500-261951-20

Date Collected: 12/18/24 13:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 92.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		22	11	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Bromobenzene	<52		87	52	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Bromochloromethane	<43		87	43	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Bromoform	<83		87	83	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Bromomethane	<160		260	160	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Carbon tetrachloride	<36		87	36	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Chlorobenzene	<36		87	36	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Chloroethane	<41	*- F1	430	41	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Chloroform	<80		170	80	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Chloromethane	<68		430	68	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
2-Chlorotoluene	<31		87	31	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
4-Chlorotoluene	<30		87	30	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
cis-1,2-Dichloroethene	<36		87	36	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
cis-1,3-Dichloropropene	<45		87	45	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Dibromochloromethane	<72		87	72	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,2-Dibromo-3-Chloropropane	<350		430	350	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,2-Dibromoethane (EDB)	<49		87	49	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Dibromomethane	<50		87	50	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,2-Dichlorobenzene	<41		87	41	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,3-Dichlorobenzene	<35		87	35	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,4-Dichlorobenzene	<39		87	39	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Dichlorobromomethane	<49		87	49	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Dichlorodifluoromethane	<150	*-	260	150	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,1-Dichloroethane	<31		87	31	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,2-Dichloroethane	<50		87	50	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,1-Dichloroethene	<42		87	42	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,2-Dichloropropane	<32		87	32	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,3-Dichloropropane	<48		87	48	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
2,2-Dichloropropane	<42		430	42	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,1-Dichloropropene	<29		87	29	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Ethylbenzene	<15		22	15	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Hexachlorobutadiene	<47		87	47	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Isopropylbenzene	<25		87	25	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Isopropyl ether	<33		87	33	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Methylene Chloride	<190		430	190	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Methyl tert-butyl ether	<37		87	37	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Naphthalene	<38		87	38	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
n-Butylbenzene	<28		87	28	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
N-Propylbenzene	<28		87	28	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
p-Isopropyltoluene	<25		87	25	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
sec-Butylbenzene	<24		87	24	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Styrene	<27		87	27	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
tert-Butylbenzene	<23		87	23	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,1,1,2-Tetrachloroethane	<58		87	58	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
1,1,2,2-Tetrachloroethane	<56		87	56	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Tetrachloroethene	<34		87	34	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
Toluene	<18		22	18	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
trans-1,2-Dichloroethene	<38		87	38	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50
trans-1,3-Dichloropropene	<55		87	55	ug/Kg	☆	12/18/24 13:25	12/28/24 07:57	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-22-121824

Lab Sample ID: 500-261951-20

Date Collected: 12/18/24 13:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 92.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<30		87	30	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
1,2,4-Trichlorobenzene	<27		87	27	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
1,1,1-Trichloroethane	<39		87	39	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
1,1,2-Trichloroethane	<63		87	63	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
Trichloroethene	<13		43	13	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
Trichlorofluoromethane	<38		87	38	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
1,2,3-Trichloropropane	<130		170	130	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
1,2,4-Trimethylbenzene	<26		87	26	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
1,3,5-Trimethylbenzene	<25		87	25	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
Vinyl chloride	<41		87	41	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50
Xylenes, Total	<20		43	20	ug/Kg	✱	12/18/24 13:25	12/28/24 07:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/18/24 13:25	12/28/24 07:57	50
Dibromofluoromethane (Surr)	93		75 - 120	12/18/24 13:25	12/28/24 07:57	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 126	12/18/24 13:25	12/28/24 07:57	50
Toluene-d8 (Surr)	101		75 - 120	12/18/24 13:25	12/28/24 07:57	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.54	0.20	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoropentanoic acid (PFPeA)	0.23		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorohexanoic acid (PFHxA)	0.16	J	0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoroheptanoic acid (PFHpA)	0.17	J	0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorooctanoic acid (PFOA)	0.41		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorononanoic acid (PFNA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorodecanoic acid (PFDA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoroundecanoic acid (PFUnA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorododecanoic acid (PFDoA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorotridecanoic acid (PFTriA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.071		0.22	0.071	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorobutanesulfonic acid (PFBS)	0.066	J	0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorohexanesulfonic acid (PFHxS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorononanesulfonic acid (PFNS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
Perfluorooctanesulfonamide (FOSA)	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
NEtFOSA	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
NMeFOSA	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1
NMeFOSAA	<0.054		0.22	0.054	ug/Kg	✱	12/30/24 11:54	01/02/25 03:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-22-121824

Lab Sample ID: 500-261951-20

Date Collected: 12/18/24 13:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
NMeFOSE	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
NEtFOSE	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
4:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
6:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
8:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
10:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
F-53B Major	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
F-53B Minor	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 11:54	01/02/25 03:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C5 PFPeA	99		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 PFHxA	110		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C4 PFHpA	91		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C4 PFOA	74		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C5 PFNA	61		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 PFDA	65		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 PFUnA	82		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 PFDoA	88		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 PFTeDA	72		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 PFHxDA	75		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C3 PFBS	102		25 - 150				12/30/24 11:54	01/02/25 03:08	1
18O2 PFHxS	86		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C4 PFOS	60		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C8 FOSA	58		10 - 150				12/30/24 11:54	01/02/25 03:08	1
d3-NMeFOSAA	88		25 - 150				12/30/24 11:54	01/02/25 03:08	1
d5-NEtFOSAA	94		25 - 150				12/30/24 11:54	01/02/25 03:08	1
d-N-MeFOSA-M	56		10 - 150				12/30/24 11:54	01/02/25 03:08	1
d-N-EtFOSA-M	61		10 - 150				12/30/24 11:54	01/02/25 03:08	1
d7-N-MeFOSE-M	50		10 - 150				12/30/24 11:54	01/02/25 03:08	1
d9-N-EtFOSE-M	55		10 - 150				12/30/24 11:54	01/02/25 03:08	1
M2-4:2 FTS	120		25 - 150				12/30/24 11:54	01/02/25 03:08	1
M2-6:2 FTS	80		25 - 150				12/30/24 11:54	01/02/25 03:08	1
M2-8:2 FTS	71		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C3 HFPO-DA	94		25 - 150				12/30/24 11:54	01/02/25 03:08	1
13C2 10:2 FTS	97		25 - 150				12/30/24 11:54	01/02/25 03:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.061		0.058	0.058	%			12/31/24 16:06	1
Percent Moisture (EPA Moisture)	7.7		0.1	0.1	%			12/30/24 13:45	1
Percent Solids (EPA Moisture)	92.3		0.1	0.1	%			12/30/24 13:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-23-121824

Lab Sample ID: 500-261951-21

Date Collected: 12/18/24 13:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12	F1	25	12	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Bromobenzene	<60		100	60	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Bromochloromethane	<50	F1	100	50	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Bromoform	<97		100	97	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Bromomethane	<180	F1	300	180	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Carbon tetrachloride	<42	F1	100	42	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Chlorobenzene	<41		100	41	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Chloroethane	<47	*-	500	47	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Chloroform	<93	F1	200	93	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Chloromethane	<79		500	79	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
2-Chlorotoluene	<36		100	36	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
4-Chlorotoluene	<34		100	34	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
cis-1,2-Dichloroethene	<42		100	42	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
cis-1,3-Dichloropropene	<52		100	52	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Dibromochloromethane	<83		100	83	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,2-Dibromo-3-Chloropropane	<410		500	410	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,2-Dibromoethane (EDB)	<56		100	56	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Dibromomethane	<58	F1	100	58	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,2-Dichlorobenzene	<48		100	48	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,3-Dichlorobenzene	<41		100	41	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,4-Dichlorobenzene	<46		100	46	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Dichlorobromomethane	<57	F1	100	57	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Dichlorodifluoromethane	<180	*-	300	180	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,1-Dichloroethane	<37		100	37	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,2-Dichloroethane	<58	F1	100	58	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,1-Dichloroethene	<48	F1	100	48	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,2-Dichloropropane	<38		100	38	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,3-Dichloropropane	<56		100	56	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
2,2-Dichloropropane	<49		500	49	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,1-Dichloropropene	<34		100	34	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Ethylbenzene	<17		25	17	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Hexachlorobutadiene	<54		100	54	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Isopropylbenzene	<29		100	29	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Isopropyl ether	<39		100	39	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Methylene Chloride	<220		500	220	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Methyl tert-butyl ether	<44		100	44	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Naphthalene	<44		100	44	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
n-Butylbenzene	<33		100	33	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
N-Propylbenzene	<32		100	32	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
p-Isopropyltoluene	<29		100	29	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
sec-Butylbenzene	<27		100	27	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Styrene	<31		100	31	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
tert-Butylbenzene	<27		100	27	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,1,1,2-Tetrachloroethane	<67		100	67	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
1,1,1,2,2-Tetrachloroethane	<65		100	65	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Tetrachloroethene	<39		100	39	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
Toluene	<21		25	21	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
trans-1,2-Dichloroethene	<44	F1	100	44	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50
trans-1,3-Dichloropropene	<64		100	64	ug/Kg	✱	12/18/24 13:45	12/28/24 00:29	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-23-121824

Lab Sample ID: 500-261951-21

Date Collected: 12/18/24 13:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<35		100	35	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
1,2,4-Trichlorobenzene	<31		100	31	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
1,1,1-Trichloroethane	<45	F1	100	45	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
1,1,2-Trichloroethane	<73		100	73	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
Trichloroethene	<15	F1	50	15	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
Trichlorofluoromethane	<45	F1	100	45	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
1,2,3-Trichloropropane	<150		200	150	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
1,2,4-Trimethylbenzene	<30		100	30	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
1,3,5-Trimethylbenzene	<29		100	29	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
Vinyl chloride	<47		100	47	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50
Xylenes, Total	<24		50	24	ug/Kg	☆	12/18/24 13:45	12/28/24 00:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		72 - 124	12/18/24 13:45	12/28/24 00:29	50
Dibromofluoromethane (Surr)	91		75 - 120	12/18/24 13:45	12/28/24 00:29	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 13:45	12/28/24 00:29	50
Toluene-d8 (Surr)	86		75 - 120	12/18/24 13:45	12/28/24 00:29	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.54	0.20	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoropentanoic acid (PFPeA)	0.14	J	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorohexanoic acid (PFHxA)	0.094	J	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoroheptanoic acid (PFHpA)	0.16	J	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorooctanoic acid (PFOA)	0.22		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorononanoic acid (PFNA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorodecanoic acid (PFDA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoroundecanoic acid (PFUnA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorododecanoic acid (PFDoA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorotridecanoic acid (PFTriA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.071		0.22	0.071	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorobutanesulfonic acid (PFBS)	0.081	J	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorooctanesulfonic acid (PFOS)	0.096	J	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorononanesulfonic acid (PFNS)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Perfluorooctanesulfonamide (FOSA)	0.060	J	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
NEtFOSA	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
NMeFOSA	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-23-121824

Lab Sample ID: 500-261951-21

Date Collected: 12/18/24 13:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
NEtFOSAA	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
NMeFOSE	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
NEtFOSE	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
4:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
6:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
8:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
10:2 FTS	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.054	F1	0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
F-53B Major	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1
F-53B Minor	<0.054		0.22	0.054	ug/Kg	☆	12/30/24 12:59	01/03/25 14:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C5 PFPeA	80		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 PFHxA	91		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C4 PFHpA	82		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C4 PFOA	68		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C5 PFNA	56		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 PFDA	51		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 PFUnA	54		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 PFDoA	55		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 PFTeDA	54		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 PFHxDA	56		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C3 PFBS	84		25 - 150	12/30/24 12:59	01/03/25 14:27	1
18O2 PFHxS	75		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C4 PFOS	49		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C8 FOSA	46		10 - 150	12/30/24 12:59	01/03/25 14:27	1
d3-NMeFOSAA	52		25 - 150	12/30/24 12:59	01/03/25 14:27	1
d5-NEtFOSAA	56		25 - 150	12/30/24 12:59	01/03/25 14:27	1
d-N-MeFOSA-M	51		10 - 150	12/30/24 12:59	01/03/25 14:27	1
d-N-EtFOSA-M	53		10 - 150	12/30/24 12:59	01/03/25 14:27	1
d7-N-MeFOSE-M	53		10 - 150	12/30/24 12:59	01/03/25 14:27	1
d9-N-EtFOSE-M	54		10 - 150	12/30/24 12:59	01/03/25 14:27	1
M2-4:2 FTS	87		25 - 150	12/30/24 12:59	01/03/25 14:27	1
M2-6:2 FTS	69		25 - 150	12/30/24 12:59	01/03/25 14:27	1
M2-8:2 FTS	44		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C3 HFPO-DA	82		25 - 150	12/30/24 12:59	01/03/25 14:27	1
13C2 10:2 FTS	48		25 - 150	12/30/24 12:59	01/03/25 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	<0.058		0.058	0.058	%			12/31/24 16:06	1
Percent Moisture (EPA Moisture)	6.1		0.1	0.1	%			12/30/24 13:45	1
Percent Solids (EPA Moisture)	93.9		0.1	0.1	%			12/30/24 13:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-01-121824

Lab Sample ID: 500-261951-22

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<15		31	15	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Bromobenzene	<74		120	74	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Bromochloromethane	<62		120	62	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Bromoform	<120		120	120	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Bromomethane	<220		370	220	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Carbon tetrachloride	<51		120	51	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Chlorobenzene	<51		120	51	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Chloroethane	<58	*-	620	58	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Chloroform	110	J B	250	110	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Chloromethane	<98		620	98	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
2-Chlorotoluene	<44		120	44	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
4-Chlorotoluene	<43		120	43	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
cis-1,2-Dichloroethene	<52		120	52	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
cis-1,3-Dichloropropene	<64		120	64	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Dibromochloromethane	<100		120	100	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,2-Dibromo-3-Chloropropane	<500		620	500	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,2-Dibromoethane (EDB)	<70		120	70	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Dibromomethane	<72		120	72	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,2-Dichlorobenzene	<59		120	59	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,3-Dichlorobenzene	<50		120	50	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,4-Dichlorobenzene	<56		120	56	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Dichlorobromomethane	<71		120	71	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Dichlorodifluoromethane	<220	*-	370	220	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,1-Dichloroethane	<45		120	45	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,2-Dichloroethane	<72		120	72	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,1-Dichloroethene	<59		120	59	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,2-Dichloropropane	<46		120	46	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,3-Dichloropropane	<69		120	69	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
2,2-Dichloropropane	<60		620	60	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,1-Dichloropropene	<41		120	41	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Ethylbenzene	35		31	21	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Hexachlorobutadiene	<67		120	67	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Isopropylbenzene	<36		120	36	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Isopropyl ether	<48		120	48	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Methylene Chloride	<270		620	270	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Methyl tert-butyl ether	<54		120	54	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Naphthalene	<55		120	55	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
n-Butylbenzene	<40		120	40	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
N-Propylbenzene	<40		120	40	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
p-Isopropyltoluene	68	J	120	36	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
sec-Butylbenzene	<34		120	34	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Styrene	<38		120	38	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
tert-Butylbenzene	<33		120	33	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,1,1,2-Tetrachloroethane	<82		120	82	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
1,1,1,2,2-Tetrachloroethane	<80		120	80	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Tetrachloroethene	<48		120	48	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
Toluene	<26		31	26	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
trans-1,2-Dichloroethene	<55		120	55	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50
trans-1,3-Dichloropropene	<78		120	78	ug/Kg	☆	12/18/24 00:00	12/28/24 00:55	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-01-121824

Lab Sample ID: 500-261951-22

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<44		120	44	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
1,2,4-Trichlorobenzene	<38		120	38	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
1,1,1-Trichloroethane	<56		120	56	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
1,1,2-Trichloroethane	<91		120	91	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
Trichloroethene	<18		62	18	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
Trichlorofluoromethane	<55		120	55	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
1,2,3-Trichloropropane	<190		250	190	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
1,2,4-Trimethylbenzene	<37		120	37	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
1,3,5-Trimethylbenzene	<36		120	36	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
Vinyl chloride	<58		120	58	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50
Xylenes, Total	<29		62	29	ug/Kg	✧	12/18/24 00:00	12/28/24 00:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		72 - 124	12/18/24 00:00	12/28/24 00:55	50
Dibromofluoromethane (Surr)	96		75 - 120	12/18/24 00:00	12/28/24 00:55	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/18/24 00:00	12/28/24 00:55	50
Toluene-d8 (Surr)	85		75 - 120	12/18/24 00:00	12/28/24 00:55	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.35	J	0.57	0.21	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoropentanoic acid (PFPeA)	1.1		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorohexanoic acid (PFHxA)	1.3		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoroheptanoic acid (PFHpA)	1.8		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorooctanoic acid (PFOA)	4.9		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorononanoic acid (PFNA)	8.7		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorodecanoic acid (PFDA)	5.2		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoroundecanoic acid (PFUnA)	2.3		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorododecanoic acid (PFDoA)	0.069	J	0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorotridecanoic acid (PFTriA)	0.48	I	0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.075		0.23	0.075	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorobutanesulfonic acid (PFBS)	0.060	J	0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoropentanesulfonic acid (PFPeS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorohexanesulfonic acid (PFHxS)	6.1		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluoroheptanesulfonic acid (PFHpS)	0.11	J	0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorooctanesulfonic acid (PFOS)	5.2		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorononanesulfonic acid (PFNS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.057		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1
Perfluorooctanesulfonamide (FOSA)	1.7		0.23	0.057	ug/Kg	✧	12/30/24 12:59	01/03/25 15:09	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-01-121824

Lab Sample ID: 500-261951-22

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
NMeFOSA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
NMeFOSAA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
NEtFOSAA	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
NMeFOSE	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
NEtFOSE	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
4:2 FTS	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
6:2 FTS	1.3		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
8:2 FTS	14		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
10:2 FTS	2.3		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
F-53B Major	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
F-53B Minor	<0.057		0.23	0.057	ug/Kg	☆	12/30/24 12:59	01/03/25 15:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C5 PFPeA	90		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 PFHxA	103		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C4 PFHpA	93		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C4 PFOA	82		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C5 PFNA	70		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 PFDA	59		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 PFUnA	55		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 PFDoA	57		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 PFTeDA	65		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 PFHxDA	63		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C3 PFBS	81		25 - 150				12/30/24 12:59	01/03/25 15:09	1
18O2 PFHxS	77		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C4 PFOS	56		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C8 FOSA	57		10 - 150				12/30/24 12:59	01/03/25 15:09	1
d3-NMeFOSAA	51		25 - 150				12/30/24 12:59	01/03/25 15:09	1
d5-NEtFOSAA	54		25 - 150				12/30/24 12:59	01/03/25 15:09	1
d-N-MeFOSA-M	56		10 - 150				12/30/24 12:59	01/03/25 15:09	1
d-N-EtFOSA-M	56		10 - 150				12/30/24 12:59	01/03/25 15:09	1
d7-N-MeFOSE-M	59		10 - 150				12/30/24 12:59	01/03/25 15:09	1
d9-N-EtFOSE-M	62		10 - 150				12/30/24 12:59	01/03/25 15:09	1
M2-4:2 FTS	101		25 - 150				12/30/24 12:59	01/03/25 15:09	1
M2-6:2 FTS	84		25 - 150				12/30/24 12:59	01/03/25 15:09	1
M2-8:2 FTS	51		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C3 HFPO-DA	94		25 - 150				12/30/24 12:59	01/03/25 15:09	1
13C2 10:2 FTS	45		25 - 150				12/30/24 12:59	01/03/25 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.19		0.058	0.058	%			12/31/24 16:06	1
Percent Moisture (EPA Moisture)	12.3		0.1	0.1	%			12/30/24 13:45	1
Percent Solids (EPA Moisture)	87.7		0.1	0.1	%			12/30/24 13:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-02-121824

Lab Sample ID: 500-261951-23

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 29.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<73		150	73	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Bromobenzene	<350		590	350	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Bromochloromethane	<290		590	290	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Bromoform	<570		590	570	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Bromomethane	<1100		1800	1100	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Carbon tetrachloride	<240		590	240	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Chlorobenzene	<240		590	240	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Chloroethane	<280	*-	3000	280	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Chloroform	<540		1200	540	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Chloromethane	<460		3000	460	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
2-Chlorotoluene	<210		590	210	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
4-Chlorotoluene	<200		590	200	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
cis-1,2-Dichloroethene	<250		590	250	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
cis-1,3-Dichloropropene	<310		590	310	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Dibromochloromethane	<490		590	490	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,2-Dibromo-3-Chloropropane	<2400		3000	2400	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,2-Dibromoethane (EDB)	<330		590	330	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Dibromomethane	<340		590	340	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,2-Dichlorobenzene	<280		590	280	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,3-Dichlorobenzene	<240		590	240	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,4-Dichlorobenzene	<270		590	270	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Dichlorobromomethane	<340		590	340	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Dichlorodifluoromethane	<1000	*-	1800	1000	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,1-Dichloroethane	<210		590	210	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,2-Dichloroethane	<340		590	340	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,1-Dichloroethene	<280		590	280	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,2-Dichloropropane	<220		590	220	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,3-Dichloropropane	<330		590	330	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
2,2-Dichloropropane	<290		3000	290	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,1-Dichloropropene	<200		590	200	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Ethylbenzene	<100		150	100	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Hexachlorobutadiene	<320		590	320	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Isopropylbenzene	<170		590	170	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Isopropyl ether	<230		590	230	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Methylene Chloride	<1300		3000	1300	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Methyl tert-butyl ether	<260		590	260	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Naphthalene	<260		590	260	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
n-Butylbenzene	<190		590	190	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
N-Propylbenzene	<190		590	190	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
p-Isopropyltoluene	<170		590	170	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
sec-Butylbenzene	<160		590	160	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Styrene	<180		590	180	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
tert-Butylbenzene	<160		590	160	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,1,1,2-Tetrachloroethane	<390		590	390	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
1,1,2,2-Tetrachloroethane	<380		590	380	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Tetrachloroethene	<230		590	230	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
Toluene	<120		150	120	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
trans-1,2-Dichloroethene	<260		590	260	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50
trans-1,3-Dichloropropene	<370		590	370	ug/Kg	✱	12/18/24 00:00	12/28/24 01:21	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-02-121824

Lab Sample ID: 500-261951-23

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 29.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<210		590	210	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
1,2,4-Trichlorobenzene	<180		590	180	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
1,1,1-Trichloroethane	<270		590	270	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
1,1,2-Trichloroethane	<430		590	430	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
Trichloroethene	<88		300	88	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
Trichlorofluoromethane	<260		590	260	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
1,2,3-Trichloropropane	<880		1200	880	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
1,2,4-Trimethylbenzene	<180		590	180	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
1,3,5-Trimethylbenzene	<170		590	170	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
Vinyl chloride	<280		590	280	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50
Xylenes, Total	<140		300	140	ug/Kg	☆	12/18/24 00:00	12/28/24 01:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		72 - 124	12/18/24 00:00	12/28/24 01:21	50
Dibromofluoromethane (Surr)	93		75 - 120	12/18/24 00:00	12/28/24 01:21	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126	12/18/24 00:00	12/28/24 01:21	50
Toluene-d8 (Surr)	87		75 - 120	12/18/24 00:00	12/28/24 01:21	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.7		1.7	0.61	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoropentanoic acid (PFPeA)	14		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorohexanoic acid (PFHxA)	8.4		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoroheptanoic acid (PFHpA)	4.4		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorooctanoic acid (PFOA)	28		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorononanoic acid (PFNA)	2.4		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorodecanoic acid (PFDA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoroundecanoic acid (PFUnA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorododecanoic acid (PFDoA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorotridecanoic acid (PFTriA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.22		0.67	0.22	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorobutanesulfonic acid (PFBS)	0.19 J		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoropentanesulfonic acid (PFPeS)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorohexanesulfonic acid (PFHxS)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorooctanesulfonic acid (PFOS)	2.8 I		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorononanesulfonic acid (PFNS)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Perfluorooctanesulfonamide (FOSA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
NEtFOSA	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
NMeFOSA	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
NMeFOSAA	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-02-121824

Lab Sample ID: 500-261951-23

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 29.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
NMeFOSE	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
NEtFOSE	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
4:2 FTS	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
6:2 FTS	1.1		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
8:2 FTS	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
10:2 FTS	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
F-53B Major	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
F-53B Minor	<0.17		0.67	0.17	ug/Kg	☆	12/30/24 12:59	01/03/25 15:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	58		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C5 PFPeA	60		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 PFHxA	67		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C4 PFHpA	65		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C4 PFOA	65		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C5 PFNA	66		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 PFDA	67		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 PFUnA	70		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 PFDoA	66		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 PFTeDA	48		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 PFHxDA	34		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C3 PFBS	62		25 - 150				12/30/24 12:59	01/03/25 15:23	1
18O2 PFHxS	63		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C4 PFOS	59		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C8 FOSA	52		10 - 150				12/30/24 12:59	01/03/25 15:23	1
d3-NMeFOSAA	70		25 - 150				12/30/24 12:59	01/03/25 15:23	1
d5-NEtFOSAA	76		25 - 150				12/30/24 12:59	01/03/25 15:23	1
d-N-MeFOSA-M	55		10 - 150				12/30/24 12:59	01/03/25 15:23	1
d-N-EtFOSA-M	52		10 - 150				12/30/24 12:59	01/03/25 15:23	1
d7-N-MeFOSE-M	56		10 - 150				12/30/24 12:59	01/03/25 15:23	1
d9-N-EtFOSE-M	59		10 - 150				12/30/24 12:59	01/03/25 15:23	1
M2-4:2 FTS	79		25 - 150				12/30/24 12:59	01/03/25 15:23	1
M2-6:2 FTS	90		25 - 150				12/30/24 12:59	01/03/25 15:23	1
M2-8:2 FTS	99		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C3 HFPO-DA	61		25 - 150				12/30/24 12:59	01/03/25 15:23	1
13C2 10:2 FTS	112		25 - 150				12/30/24 12:59	01/03/25 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	22		0.058	0.058	%			12/31/24 16:06	1
Percent Moisture (EPA Moisture)	70.4		0.1	0.1	%			12/30/24 13:45	1
Percent Solids (EPA Moisture)	29.6		0.1	0.1	%			12/30/24 13:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: EB-01-121924

Lab Sample ID: 500-261951-24

Date Collected: 12/19/24 10:45

Matrix: Water

Date Received: 12/20/24 10:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.18		0.50	0.18	ug/L			12/28/24 21:48	1
Bromobenzene	<0.60		1.0	0.60	ug/L			12/28/24 21:48	1
Bromochloromethane	<0.50		1.0	0.50	ug/L			12/28/24 21:48	1
Bromoform	<0.96		1.0	0.96	ug/L			12/28/24 21:48	1
Carbon tetrachloride	<0.41		1.0	0.41	ug/L			12/28/24 21:48	1
Chlorobenzene	<0.41		1.0	0.41	ug/L			12/28/24 21:48	1
Chloroethane	<0.47		5.0	0.47	ug/L			12/28/24 21:48	1
Chloroform	<0.92		2.0	0.92	ug/L			12/28/24 21:48	1
2-Chlorotoluene	<0.36		1.0	0.36	ug/L			12/28/24 21:48	1
4-Chlorotoluene	<0.34		1.0	0.34	ug/L			12/28/24 21:48	1
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L			12/28/24 21:48	1
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L			12/28/24 21:48	1
Dibromochloromethane	<0.83		1.0	0.83	ug/L			12/28/24 21:48	1
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L			12/28/24 21:48	1
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L			12/28/24 21:48	1
Dibromomethane	<0.58		1.0	0.58	ug/L			12/28/24 21:48	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L			12/28/24 21:48	1
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L			12/28/24 21:48	1
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L			12/28/24 21:48	1
Dichlorobromomethane	<0.57		1.0	0.57	ug/L			12/28/24 21:48	1
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L			12/28/24 21:48	1
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L			12/28/24 21:48	1
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L			12/28/24 21:48	1
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L			12/28/24 21:48	1
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L			12/28/24 21:48	1
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L			12/28/24 21:48	1
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L			12/28/24 21:48	1
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L			12/28/24 21:48	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			12/28/24 21:48	1
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L			12/28/24 21:48	1
Isopropylbenzene	<0.29		1.0	0.29	ug/L			12/28/24 21:48	1
Isopropyl ether	<0.38		1.0	0.38	ug/L			12/28/24 21:48	1
Bromomethane	<1.8		3.0	1.8	ug/L			12/28/24 21:48	1
Chloromethane	<0.79		5.0	0.79	ug/L			12/28/24 21:48	1
Methylene Chloride	<3.6		5.0	3.6	ug/L			12/28/24 21:48	1
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L			12/28/24 21:48	1
Naphthalene	<0.44		1.0	0.44	ug/L			12/28/24 21:48	1
n-Butylbenzene	<0.33		1.0	0.33	ug/L			12/28/24 21:48	1
N-Propylbenzene	<0.32		1.0	0.32	ug/L			12/28/24 21:48	1
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L			12/28/24 21:48	1
sec-Butylbenzene	<0.27		1.0	0.27	ug/L			12/28/24 21:48	1
Styrene	<0.31		1.0	0.31	ug/L			12/28/24 21:48	1
tert-Butylbenzene	<0.26		1.0	0.26	ug/L			12/28/24 21:48	1
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L			12/28/24 21:48	1
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L			12/28/24 21:48	1
Tetrachloroethene	<0.39		1.0	0.39	ug/L			12/28/24 21:48	1
Toluene	<0.21		0.50	0.21	ug/L			12/28/24 21:48	1
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L			12/28/24 21:48	1
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L			12/28/24 21:48	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: EB-01-121924

Lab Sample ID: 500-261951-24

Date Collected: 12/19/24 10:45

Matrix: Water

Date Received: 12/20/24 10:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L			12/28/24 21:48	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			12/28/24 21:48	1
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L			12/28/24 21:48	1
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L			12/28/24 21:48	1
Trichloroethene	<0.15		0.50	0.15	ug/L			12/28/24 21:48	1
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L			12/28/24 21:48	1
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L			12/28/24 21:48	1
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L			12/28/24 21:48	1
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L			12/28/24 21:48	1
Vinyl chloride	<0.47		1.0	0.47	ug/L			12/28/24 21:48	1
Xylenes, Total	<0.30		1.0	0.30	ug/L			12/28/24 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		12/28/24 21:48	1
Dibromofluoromethane (Surr)	96		75 - 120		12/28/24 21:48	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		12/28/24 21:48	1
Toluene-d8 (Surr)	84		75 - 120		12/28/24 21:48	1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoroheptanoic acid (PFHpA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorooctanoic acid (PFOA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorononanoic acid (PFNA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorodecanoic acid (PFDA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoroundecanoic acid (PFUnA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorotridecanoic acid (PFTriA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.95		2.0	0.95	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoropentanesulfonic acid (PFPeS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorononanesulfonic acid (PFNS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorodecanesulfonic acid (PFDS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorododecanesulfonic acid (PFDoS)	<0.98		2.0	0.98	ng/L		12/27/24 04:02	12/27/24 18:20	1
Perfluorooctanesulfonamide (FOSA)	<0.99		2.0	0.99	ng/L		12/27/24 04:02	12/27/24 18:20	1
NEtFOSA	<0.88		2.0	0.88	ng/L		12/27/24 04:02	12/27/24 18:20	1
NMeFOSA	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
NMeFOSAA	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 18:20	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 18:20	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: EB-01-121924

Lab Sample ID: 500-261951-24

Date Collected: 12/19/24 10:45

Matrix: Water

Date Received: 12/20/24 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSE	<1.4		4.0	1.4	ng/L		12/27/24 04:02	12/27/24 18:20	1
NEtFOSE	<0.86		2.0	0.86	ng/L		12/27/24 04:02	12/27/24 18:20	1
4:2 FTS	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
6:2 FTS	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 18:20	1
8:2 FTS	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
10:2 FTS	<0.67		2.0	0.67	ng/L		12/27/24 04:02	12/27/24 18:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		4.0	1.0	ng/L		12/27/24 04:02	12/27/24 18:20	1
F-53B Major	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 18:20	1
F-53B Minor	<0.69		2.0	0.69	ng/L		12/27/24 04:02	12/27/24 18:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C5 PFPeA	98		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 PFHxA	109		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C4 PFHpA	102		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C4 PFOA	105		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C5 PFNA	109		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 PFDA	103		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 PFUnA	93		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 PFDoA	84		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 PFTeDA	82		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 PFHxDA	98		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C3 PFBS	100		25 - 150				12/27/24 04:02	12/27/24 18:20	1
18O2 PFHxS	108		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C4 PFOS	104		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C8 FOSA	80		10 - 150				12/27/24 04:02	12/27/24 18:20	1
d3-NMeFOSAA	79		25 - 150				12/27/24 04:02	12/27/24 18:20	1
d5-NEtFOSAA	74		25 - 150				12/27/24 04:02	12/27/24 18:20	1
d-N-MeFOSA-M	81		10 - 150				12/27/24 04:02	12/27/24 18:20	1
d-N-EtFOSA-M	85		10 - 150				12/27/24 04:02	12/27/24 18:20	1
d7-N-MeFOSE-M	70		10 - 150				12/27/24 04:02	12/27/24 18:20	1
d9-N-EtFOSE-M	83		10 - 150				12/27/24 04:02	12/27/24 18:20	1
M2-4:2 FTS	117		25 - 150				12/27/24 04:02	12/27/24 18:20	1
M2-6:2 FTS	136		25 - 150				12/27/24 04:02	12/27/24 18:20	1
M2-8:2 FTS	127		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C3 HFPO-DA	97		25 - 150				12/27/24 04:02	12/27/24 18:20	1
13C2 10:2 FTS	106		25 - 150				12/27/24 04:02	12/27/24 18:20	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-261951-25

Date Collected: 12/19/24 10:50

Matrix: Water

Date Received: 12/20/24 10:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.18		0.50	0.18	ug/L			12/28/24 21:22	1
Bromobenzene	<0.60		1.0	0.60	ug/L			12/28/24 21:22	1
Bromochloromethane	<0.50		1.0	0.50	ug/L			12/28/24 21:22	1
Bromoform	<0.96		1.0	0.96	ug/L			12/28/24 21:22	1
Carbon tetrachloride	<0.41		1.0	0.41	ug/L			12/28/24 21:22	1
Chlorobenzene	<0.41		1.0	0.41	ug/L			12/28/24 21:22	1
Chloroethane	<0.47		5.0	0.47	ug/L			12/28/24 21:22	1
Chloroform	<0.92		2.0	0.92	ug/L			12/28/24 21:22	1
2-Chlorotoluene	<0.36		1.0	0.36	ug/L			12/28/24 21:22	1
4-Chlorotoluene	<0.34		1.0	0.34	ug/L			12/28/24 21:22	1
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L			12/28/24 21:22	1
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L			12/28/24 21:22	1
Dibromochloromethane	<0.83		1.0	0.83	ug/L			12/28/24 21:22	1
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L			12/28/24 21:22	1
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L			12/28/24 21:22	1
Dibromomethane	<0.58		1.0	0.58	ug/L			12/28/24 21:22	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L			12/28/24 21:22	1
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L			12/28/24 21:22	1
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L			12/28/24 21:22	1
Dichlorobromomethane	<0.57		1.0	0.57	ug/L			12/28/24 21:22	1
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L			12/28/24 21:22	1
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L			12/28/24 21:22	1
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L			12/28/24 21:22	1
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L			12/28/24 21:22	1
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L			12/28/24 21:22	1
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L			12/28/24 21:22	1
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L			12/28/24 21:22	1
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L			12/28/24 21:22	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			12/28/24 21:22	1
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L			12/28/24 21:22	1
Isopropylbenzene	<0.29		1.0	0.29	ug/L			12/28/24 21:22	1
Isopropyl ether	<0.38		1.0	0.38	ug/L			12/28/24 21:22	1
Bromomethane	<1.8		3.0	1.8	ug/L			12/28/24 21:22	1
Chloromethane	<0.79		5.0	0.79	ug/L			12/28/24 21:22	1
Methylene Chloride	<3.6		5.0	3.6	ug/L			12/28/24 21:22	1
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L			12/28/24 21:22	1
Naphthalene	0.70 J B		1.0	0.44	ug/L			12/28/24 21:22	1
n-Butylbenzene	<0.33		1.0	0.33	ug/L			12/28/24 21:22	1
N-Propylbenzene	<0.32		1.0	0.32	ug/L			12/28/24 21:22	1
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L			12/28/24 21:22	1
sec-Butylbenzene	<0.27		1.0	0.27	ug/L			12/28/24 21:22	1
Styrene	<0.31		1.0	0.31	ug/L			12/28/24 21:22	1
tert-Butylbenzene	<0.26		1.0	0.26	ug/L			12/28/24 21:22	1
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L			12/28/24 21:22	1
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L			12/28/24 21:22	1
Tetrachloroethene	<0.39		1.0	0.39	ug/L			12/28/24 21:22	1
Toluene	<0.21		0.50	0.21	ug/L			12/28/24 21:22	1
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L			12/28/24 21:22	1
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L			12/28/24 21:22	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-261951-25

Date Collected: 12/19/24 10:50

Matrix: Water

Date Received: 12/20/24 10:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L			12/28/24 21:22	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			12/28/24 21:22	1
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L			12/28/24 21:22	1
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L			12/28/24 21:22	1
Trichloroethene	<0.15		0.50	0.15	ug/L			12/28/24 21:22	1
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L			12/28/24 21:22	1
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L			12/28/24 21:22	1
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L			12/28/24 21:22	1
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L			12/28/24 21:22	1
Vinyl chloride	<0.47		1.0	0.47	ug/L			12/28/24 21:22	1
Xylenes, Total	<0.30		1.0	0.30	ug/L			12/28/24 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124		12/28/24 21:22	1
Dibromofluoromethane (Surr)	95		75 - 120		12/28/24 21:22	1
1,2-Dichloroethane-d4 (Surr)	87		75 - 126		12/28/24 21:22	1
Toluene-d8 (Surr)	84		75 - 120		12/28/24 21:22	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-261951-1	GETSWC-03-121824	105	92	86	101
500-261951-2	GETSWC-04-121824	104	91	87	102
500-261951-3	GETSWC-05-121824	102	91	86	102
500-261951-4	GETSWC-06-121824	106	90	87	104
500-261951-5	GETSWC-07-121824	105	93	87	106
500-261951-6	GETSWC-08-121824	104	90	86	102
500-261951-7	GETSWC-09-121824	105	92	86	102
500-261951-8	GETSWC-10-121824	104	90	86	102
500-261951-9	GETSWC-11-121824	105	92	88	102
500-261951-10	GETSWC-12-121824	104	91	86	101
500-261951-11	GETSWC-13-121824	104	92	88	101
500-261951-12	GETSWC-14-121824	105	92	86	102
500-261951-13	GETSWC-15-121824	102	92	89	101
500-261951-14	GETSWC-16-121824	107	93	89	102
500-261951-15	GETSWC-17-121824	105	92	88	100
500-261951-16	GETSWC-18-121824	103	92	88	102
500-261951-17	GETSWC-19-121824	103	93	87	102
500-261951-18	GETSWC-20-121824	104	91	86	100
500-261951-19	GETSWC-21-121824	103	93	89	101
500-261951-20	GETSWC-22-121824	105	93	88	101
500-261951-20 MS	GETSWC-22-121824	110	93	87	102
500-261951-20 MSD	GETSWC-22-121824	107	94	87	101
500-261951-21	GETSWC-23-121824	83	91	86	86
500-261951-21 MS	GETSWC-23-121824	79	92	82	84
500-261951-21 MSD	GETSWC-23-121824	79	91	82	87
500-261951-22	DUP-01-121824	82	96	86	85
500-261951-23	DUP-02-121824	81	93	84	87
LB3 500-800649/21-A	Method Blank	105	91	85	103
LB3 500-800650/6-A	Method Blank	104	91	86	101
LCS 500-800649/22-A	Lab Control Sample	108	95	87	101
LCS 500-800650/7-A	Lab Control Sample	107	96	87	102
LCS 500-800956/4	Lab Control Sample	82	90	83	86
LCS 500-800959/4	Lab Control Sample	109	91	82	102
MB 500-800956/7	Method Blank	83	95	88	85
MB 500-800959/7	Method Blank	104	95	83	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-261951-24	EB-01-121924	84	96	88	84
500-261951-25	TRIP BLANK	86	95	87	84

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Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
LCS 500-800983/4	Lab Control Sample	82	91	83	86
MB 500-800983/7	Method Blank	84	96	88	86
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

Isotope Dilution Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-261951-1	GETSWC-03-121824	64	68	72	70	68	70	65	55
500-261951-1 MS	GETSWC-03-121824	71	71	76	77	74	78	79	78
500-261951-1 MSD	GETSWC-03-121824	75	77	81	78	78	78	74	69
500-261951-2	GETSWC-04-121824	73	75	83	77	77	78	82	79
500-261951-3	GETSWC-05-121824	99	95	102	97	94	91	89	77
500-261951-4	GETSWC-06-121824	92	91	96	92	88	85	80	67
500-261951-5	GETSWC-07-121824	99	98	103	95	93	85	82	61
500-261951-6	GETSWC-08-121824	105	101	106	96	80	62	62	74
500-261951-7	GETSWC-09-121824	97	93	100	93	77	52	43	44
500-261951-8	GETSWC-10-121824	110	106	115	103	90	77	74	81
500-261951-9	GETSWC-11-121824	104	101	107	93	76	66	73	92
500-261951-10	GETSWC-12-121824	95	93	100	94	82	71	69	78
500-261951-11	GETSWC-13-121824	97	98	101	93	76	57	41	41
500-261951-12	GETSWC-14-121824	104	102	110	97	84	65	61	67
500-261951-13	GETSWC-15-121824	114	114	125	117	115	113	114	110
500-261951-14	GETSWC-16-121824	100	93	101	91	81	61	53	57
500-261951-15	GETSWC-17-121824	105	103	105	101	92	83	62	48
500-261951-15 - DL	GETSWC-17-121824	102	101	102	101	98	82	60	43
500-261951-16	GETSWC-18-121824	100	99	106	94	80	68	65	70
500-261951-17	GETSWC-19-121824	99	98	97	89	75	53	39	36
500-261951-18	GETSWC-20-121824	99	97	100	87	73	60	61	68
500-261951-19	GETSWC-21-121824	96	94	100	93	78	59	52	51
500-261951-20	GETSWC-22-121824	99	99	110	91	74	61	65	82
500-261951-21	GETSWC-23-121824	85	80	91	82	68	56	51	54
500-261951-21 MS	GETSWC-23-121824	74	70	80	73	65	61	61	68
500-261951-21 MSD	GETSWC-23-121824	80	76	81	77	66	55	53	62
500-261951-22	DUP-01-121824	96	90	103	93	82	70	59	55
500-261951-23	DUP-02-121824	58	60	67	65	65	66	67	70
LCS 320-824867/3-A	Lab Control Sample	95	95	95	95	95	94	93	96
LCSD 320-824867/4-A	Lab Control Sample Dup	99	103	104	101	102	99	101	101
LLCS 320-824867/2-A	Lab Control Sample	99	96	99	98	97	95	97	99
LLCS 320-824897/2-A	Lab Control Sample	95	95	96	97	92	88	85	79
MB 320-824867/1-A	Method Blank	96	95	95	97	95	93	93	97
MB 320-824897/1-A	Method Blank	87	84	86	85	84	83	80	79
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-261951-1	GETSWC-03-121824	45	36	50	68	67	63	43	65
500-261951-1 MS	GETSWC-03-121824	63	38	53	73	74	72	53	84
500-261951-1 MSD	GETSWC-03-121824	57	41	57	81	79	75	43	86
500-261951-2	GETSWC-04-121824	63	35	43	79	77	75	51	80
500-261951-3	GETSWC-05-121824	56	42	64	98	99	91	72	68
500-261951-4	GETSWC-06-121824	48	56	72	95	93	84	64	73
500-261951-5	GETSWC-07-121824	40	32	65	101	95	85	62	56
500-261951-6	GETSWC-08-121824	75	63	81	108	94	59	59	77
500-261951-7	GETSWC-09-121824	40	35	59	93	86	45	52	44
500-261951-8	GETSWC-10-121824	80	67	84	106	99	72	69	82
500-261951-9	GETSWC-11-121824	95	75	84	101	88	63	64	96
500-261951-10	GETSWC-12-121824	81	66	74	97	92	68	67	80

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Isotope Dilution Summary

Client: Arcadis US Inc.

Job ID: 500-261951-1

Project/Site: Marinette, WI 30248998.4.3 GETS

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-261951-11	GETSWC-13-121824	43	39	61	98	92	52	50	46
500-261951-12	GETSWC-14-121824	71	56	66	100	94	61	63	73
500-261951-13	GETSWC-15-121824	86	44	63	113	116	111	113	117
500-261951-14	GETSWC-16-121824	54	44	68	97	92	57	62	59
500-261951-15	GETSWC-17-121824	37	37	49	104	100	75	68	49
500-261951-15 - DL	GETSWC-17-121824	35	39	57	104	100	74	66	42
500-261951-16	GETSWC-18-121824	59	43	59	99	90	65	66	68
500-261951-17	GETSWC-19-121824	31	33	50	96	91	48	51	35
500-261951-18	GETSWC-20-121824	66	53	73	101	85	58	57	73
500-261951-19	GETSWC-21-121824	43	35	57	96	90	54	58	53
500-261951-20	GETSWC-22-121824	88	72	75	102	86	60	58	88
500-261951-21	GETSWC-23-121824	55	54	56	84	75	49	46	52
500-261951-21 MS	GETSWC-23-121824	69	62	63	73	67	53	54	62
500-261951-21 MSD	GETSWC-23-121824	64	59	54	73	67	47	49	60
500-261951-22	DUP-01-121824	57	65	63	81	77	56	57	51
500-261951-23	DUP-02-121824	66	48	34	62	63	59	52	70
LCS 320-824867/3-A	Lab Control Sample	86	72	75	93	95	94	90	99
LCSD 320-824867/4-A	Lab Control Sample Dup	93	76	85	101	100	99	96	105
LLCS 320-824867/2-A	Lab Control Sample	89	75	85	97	96	94	89	100
LLCS 320-824897/2-A	Lab Control Sample	67	62	65	88	86	78	71	78
MB 320-824867/1-A	Method Blank	87	67	76	94	93	93	87	97
MB 320-824897/1-A	Method Blank	65	67	72	80	84	78	71	76

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-261951-1	GETSWC-03-121824	65	45	47	40	47	84	86	88
500-261951-1 MS	GETSWC-03-121824	88	44	46	46	48	89	93	109
500-261951-1 MSD	GETSWC-03-121824	84	47	49	47	51	90	98	107
500-261951-2	GETSWC-04-121824	88	47	44	45	46	98	106	116
500-261951-3	GETSWC-05-121824	67	54	51	52	49	108	99	90
500-261951-4	GETSWC-06-121824	63	50	50	50	50	97	91	81
500-261951-5	GETSWC-07-121824	50	46	44	48	41	103	89	77
500-261951-6	GETSWC-08-121824	81	54	55	55	57	109	79	60
500-261951-7	GETSWC-09-121824	45	46	41	44	39	88	68	37
500-261951-8	GETSWC-10-121824	90	66	66	62	65	130	89	68
500-261951-9	GETSWC-11-121824	103	59	58	58	58	129	87	87
500-261951-10	GETSWC-12-121824	84	65	65	61	65	110	91	70
500-261951-11	GETSWC-13-121824	46	40	39	36	31	91	72	38
500-261951-12	GETSWC-14-121824	73	57	57	57	53	107	80	57
500-261951-13	GETSWC-15-121824	117	98	88	53	46	128	108	107
500-261951-14	GETSWC-16-121824	61	56	51	54	48	95	74	50
500-261951-15	GETSWC-17-121824	45	46	41	42	35	98	88	67
500-261951-15 - DL	GETSWC-17-121824	44	40	36	42	34	85	88	66
500-261951-16	GETSWC-18-121824	68	64	66	64	65	100	74	59
500-261951-17	GETSWC-19-121824	35	43	41	41	37	88	71	34
500-261951-18	GETSWC-20-121824	76	55	58	50	53	110	74	63
500-261951-19	GETSWC-21-121824	51	53	51	47	44	96	70	46
500-261951-20	GETSWC-22-121824	94	56	61	50	55	120	80	71
500-261951-21	GETSWC-23-121824	56	51	53	53	54	87	69	44
500-261951-21 MS	GETSWC-23-121824	64	56	60	64	64	81	63	51

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Isotope Dilution Summary

Client: Arcadis US Inc.

Job ID: 500-261951-1

Project/Site: Marinette, WI 30248998.4.3 GETS

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

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-261951-21 MSD	GETSWC-23-121824	63	52	53	55	55	73	65	46
500-261951-22	DUP-01-121824	54	56	56	59	62	101	84	51
500-261951-23	DUP-02-121824	76	55	52	56	59	79	90	99
LCS 320-824867/3-A	Lab Control Sample	97	76	67	76	76	85	83	83
LCSD 320-824867/4-A	Lab Control Sample Dup	110	76	73	90	89	87	87	90
LLCS 320-824867/2-A	Lab Control Sample	104	68	69	85	86	86	89	85
LLCS 320-824897/2-A	Lab Control Sample	74	61	56	70	68	84	87	73
MB 320-824867/1-A	Method Blank	105	64	62	76	73	85	84	84
MB 320-824897/1-A	Method Blank	75	58	58	64	66	73	79	69

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-261951-1	GETSWC-03-121824	63	67
500-261951-1 MS	GETSWC-03-121824	71	102
500-261951-1 MSD	GETSWC-03-121824	74	104
500-261951-2	GETSWC-04-121824	73	104
500-261951-3	GETSWC-05-121824	94	69
500-261951-4	GETSWC-06-121824	87	56
500-261951-5	GETSWC-07-121824	94	44
500-261951-6	GETSWC-08-121824	93	86
500-261951-7	GETSWC-09-121824	93	38
500-261951-8	GETSWC-10-121824	100	86
500-261951-9	GETSWC-11-121824	97	128
500-261951-10	GETSWC-12-121824	88	90
500-261951-11	GETSWC-13-121824	91	43
500-261951-12	GETSWC-14-121824	95	69
500-261951-13	GETSWC-15-121824	110	94
500-261951-14	GETSWC-16-121824	92	55
500-261951-15	GETSWC-17-121824	103	37
500-261951-15 - DL	GETSWC-17-121824	102	35
500-261951-16	GETSWC-18-121824	96	63
500-261951-17	GETSWC-19-121824	90	30
500-261951-18	GETSWC-20-121824	89	76
500-261951-19	GETSWC-21-121824	91	48
500-261951-20	GETSWC-22-121824	94	97
500-261951-21	GETSWC-23-121824	82	48
500-261951-21 MS	GETSWC-23-121824	71	59
500-261951-21 MSD	GETSWC-23-121824	78	62
500-261951-22	DUP-01-121824	94	45
500-261951-23	DUP-02-121824	61	112
LCS 320-824867/3-A	Lab Control Sample	94	106
LCSD 320-824867/4-A	Lab Control Sample Dup	100	113
LLCS 320-824867/2-A	Lab Control Sample	95	119
LLCS 320-824897/2-A	Lab Control Sample	95	56
MB 320-824867/1-A	Method Blank	95	107
MB 320-824897/1-A	Method Blank	85	63

Surrogate Legend

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

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Isotope Dilution Summary

Client: Arcadis US Inc.

Job ID: 500-261951-1

Project/Site: Marinette, WI 30248998.4.3 GETS

PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-261951-24	EB-01-121924	103	98	109	102	105	109	103	93
LLCS 320-824450/2-A	Lab Control Sample	98	103	110	103	103	107	107	105
LLCSD 320-824450/3-A	Lab Control Sample Dup	103	97	108	104	107	107	108	105
MB 320-824450/1-A	Method Blank	103	101	110	106	107	110	110	105

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-261951-24	EB-01-121924	84	82	98	100	108	104	80	79
LLCS 320-824450/2-A	Lab Control Sample	102	98	118	98	107	103	89	91
LLCSD 320-824450/3-A	Lab Control Sample Dup	96	106	111	97	105	102	91	89
MB 320-824450/1-A	Method Blank	97	92	112	102	109	107	93	89

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-261951-24	EB-01-121924	74	81	85	70	83	117	136	127
LLCS 320-824450/2-A	Lab Control Sample	87	78	83	80	102	119	131	126
LLCSD 320-824450/3-A	Lab Control Sample Dup	84	80	88	86	103	121	134	130
MB 320-824450/1-A	Method Blank	88	81	88	81	101	124	143	134

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-261951-24	EB-01-121924	97	106
LLCS 320-824450/2-A	Lab Control Sample	97	120
LLCSD 320-824450/3-A	Lab Control Sample Dup	99	121
MB 320-824450/1-A	Method Blank	101	118

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Isotope Dilution Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 500-800649/21-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 800649

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<6.1		13	6.1	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Bromobenzene	<30		50	30	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Bromochloromethane	<25		50	25	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Bromoform	<48		50	48	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Carbon tetrachloride	<21		50	21	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Chlorobenzene	<21		50	21	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Chloroethane	<24		250	24	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Chloroform	<46		100	46	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
2-Chlorotoluene	<18		50	18	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
4-Chlorotoluene	<17		50	17	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
cis-1,2-Dichloroethene	<21		50	21	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
cis-1,3-Dichloropropene	<26		50	26	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Dibromochloromethane	<41		50	41	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2-Dibromo-3-Chloropropane	<200		250	200	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2-Dibromoethane (EDB)	<28		50	28	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Dibromomethane	<29		50	29	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2-Dichlorobenzene	<24		50	24	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,4-Dichlorobenzene	<23		50	23	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Dichlorobromomethane	<28		50	28	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Dichlorodifluoromethane	<88		150	88	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1-Dichloroethane	<18		50	18	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2-Dichloroethane	<29		50	29	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1-Dichloroethene	<24		50	24	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2-Dichloropropane	<19		50	19	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,3-Dichloropropane	<28		50	28	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
2,2-Dichloropropane	<24		250	24	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1-Dichloropropene	<17		50	17	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Ethylbenzene	<8.6		13	8.6	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Hexachlorobutadiene	<27		50	27	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Bromomethane	<90		150	90	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Isopropylbenzene	<15		50	15	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Chloromethane	<39		250	39	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Isopropyl ether	<19		50	19	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Methylene Chloride	<110		250	110	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Methyl tert-butyl ether	<22		50	22	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Naphthalene	<22		50	22	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
n-Butylbenzene	<16		50	16	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
N-Propylbenzene	<16		50	16	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
p-Isopropyltoluene	<15		50	15	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
sec-Butylbenzene	<14		50	14	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Styrene	<15		50	15	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
tert-Butylbenzene	<13		50	13	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1,1,2-Tetrachloroethane	<33		50	33	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1,2,2-Tetrachloroethane	<32		50	32	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Tetrachloroethene	<19		50	19	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Toluene	<11		13	11	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
trans-1,2-Dichloroethene	<22		50	22	ug/Kg		12/23/24 23:40	12/27/24 23:55	50

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 500-800649/21-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 800649

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<32		50	32	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2,3-Trichlorobenzene	<18		50	18	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2,4-Trichlorobenzene	<15		50	15	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1,1-Trichloroethane	<23		50	23	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,1,2-Trichloroethane	<37		50	37	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Trichloroethene	<7.4		25	7.4	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Trichlorofluoromethane	<22		50	22	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2,3-Trichloropropane	<75		100	75	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,2,4-Trimethylbenzene	<15		50	15	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
1,3,5-Trimethylbenzene	<14		50	14	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Vinyl chloride	<23		50	23	ug/Kg		12/23/24 23:40	12/27/24 23:55	50
Xylenes, Total	<12		25	12	ug/Kg		12/23/24 23:40	12/27/24 23:55	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124	12/23/24 23:40	12/27/24 23:55	50
Dibromofluoromethane (Surr)	91		75 - 120	12/23/24 23:40	12/27/24 23:55	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126	12/23/24 23:40	12/27/24 23:55	50
Toluene-d8 (Surr)	103		75 - 120	12/23/24 23:40	12/27/24 23:55	50

Lab Sample ID: LCS 500-800649/22-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2500	2310		ug/Kg		92	70 - 120
Bromobenzene	2500	2680		ug/Kg		107	70 - 122
Bromochloromethane	2500	2390		ug/Kg		96	65 - 122
Bromoform	2500	1990		ug/Kg		80	56 - 132
Carbon tetrachloride	2500	1990		ug/Kg		80	59 - 133
Chlorobenzene	2500	2420		ug/Kg		97	70 - 120
Chloroethane	2500	1060	*-	ug/Kg		42	48 - 136
Chloroform	2500	2040		ug/Kg		81	70 - 120
2-Chlorotoluene	2500	2420		ug/Kg		97	70 - 125
4-Chlorotoluene	2500	2330		ug/Kg		93	68 - 124
cis-1,2-Dichloroethene	2500	2280		ug/Kg		91	70 - 125
cis-1,3-Dichloropropene	2500	2240		ug/Kg		90	64 - 127
Dibromochloromethane	2500	2190		ug/Kg		88	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2080		ug/Kg		83	56 - 123
1,2-Dibromoethane (EDB)	2500	2370		ug/Kg		95	70 - 125
Dibromomethane	2500	2210		ug/Kg		88	70 - 120
1,2-Dichlorobenzene	2500	2410		ug/Kg		96	70 - 125
1,3-Dichlorobenzene	2500	2370		ug/Kg		95	70 - 125
1,4-Dichlorobenzene	2500	2300		ug/Kg		92	70 - 120
Dichlorobromomethane	2500	2100		ug/Kg		84	69 - 120
Dichlorodifluoromethane	2500	775	*-	ug/Kg		31	40 - 159
1,1-Dichloroethane	2500	2370		ug/Kg		95	70 - 125
1,2-Dichloroethane	2500	2140		ug/Kg		86	68 - 127
1,1-Dichloroethene	2500	2150		ug/Kg		86	67 - 122

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800649/22-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	2500	2520		ug/Kg		101	67 - 130
1,3-Dichloropropane	2500	2490		ug/Kg		100	62 - 136
2,2-Dichloropropane	2500	1810		ug/Kg		73	58 - 139
1,1-Dichloropropene	2500	2190		ug/Kg		88	70 - 121
Ethylbenzene	2500	2190		ug/Kg		88	70 - 123
Hexachlorobutadiene	2500	2310		ug/Kg		92	51 - 150
Bromomethane	2500	1080		ug/Kg		43	40 - 152
Isopropylbenzene	2500	2560		ug/Kg		102	70 - 126
Chloromethane	2500	1760		ug/Kg		71	56 - 152
Methylene Chloride	2500	2170		ug/Kg		87	69 - 125
Methyl tert-butyl ether	2500	2060		ug/Kg		83	55 - 123
Naphthalene	2500	2560		ug/Kg		102	53 - 144
n-Butylbenzene	2500	2090		ug/Kg		84	68 - 125
N-Propylbenzene	2500	2400		ug/Kg		96	69 - 127
p-Isopropyltoluene	2500	2390		ug/Kg		96	70 - 125
sec-Butylbenzene	2500	2370		ug/Kg		95	70 - 123
Styrene	2500	2290		ug/Kg		92	70 - 120
tert-Butylbenzene	2500	2520		ug/Kg		101	70 - 121
1,1,1,2-Tetrachloroethane	2500	2230		ug/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	2500	2390		ug/Kg		96	62 - 140
Tetrachloroethene	2500	2440		ug/Kg		98	70 - 128
Toluene	2500	2180		ug/Kg		87	70 - 125
trans-1,2-Dichloroethene	2500	2220		ug/Kg		89	70 - 125
trans-1,3-Dichloropropene	2500	2140		ug/Kg		86	62 - 128
1,2,3-Trichlorobenzene	2500	3130		ug/Kg		125	51 - 145
1,2,4-Trichlorobenzene	2500	2420		ug/Kg		97	57 - 137
1,1,1-Trichloroethane	2500	1970		ug/Kg		79	70 - 125
1,1,2-Trichloroethane	2500	2440		ug/Kg		98	71 - 130
Trichloroethene	2500	2380		ug/Kg		95	70 - 125
Trichlorofluoromethane	2500	1790		ug/Kg		72	55 - 128
1,2,3-Trichloropropane	2500	2480		ug/Kg		99	50 - 133
1,2,4-Trimethylbenzene	2500	2360		ug/Kg		94	70 - 123
1,3,5-Trimethylbenzene	2500	2410		ug/Kg		96	70 - 123
Vinyl chloride	2500	1820		ug/Kg		73	64 - 126
Xylenes, Total	5000	4170		ug/Kg		83	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-261951-20 MS

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: GETSWC-22-121824

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<11		4330	3660		ug/Kg	☆	84	70 - 120

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-261951-20 MS

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: GETSWC-22-121824

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	<52		4330	4310		ug/Kg	✱	99	70 - 122
Bromochloromethane	<43		4330	3800		ug/Kg	✱	88	65 - 122
Bromoform	<83		4330	3110		ug/Kg	✱	72	56 - 132
Carbon tetrachloride	<36		4330	3180		ug/Kg	✱	73	59 - 133
Chlorobenzene	<36		4330	3830		ug/Kg	✱	88	70 - 120
Chloroethane	<41	*- F1	4330	1710	F1	ug/Kg	✱	40	48 - 136
Chloroform	<80		4330	3230		ug/Kg	✱	75	70 - 120
2-Chlorotoluene	<31		4330	3930		ug/Kg	✱	91	70 - 125
4-Chlorotoluene	<30		4330	3760		ug/Kg	✱	87	68 - 124
cis-1,2-Dichloroethene	<36		4330	3630		ug/Kg	✱	84	70 - 125
cis-1,3-Dichloropropene	<45		4330	3570		ug/Kg	✱	82	64 - 127
Dibromochloromethane	<72		4330	3500		ug/Kg	✱	81	68 - 125
1,2-Dibromo-3-Chloropropane	<350		4330	3310		ug/Kg	✱	76	56 - 123
1,2-Dibromoethane (EDB)	<49		4330	3720		ug/Kg	✱	86	70 - 125
Dibromomethane	<50		4330	3400		ug/Kg	✱	78	70 - 120
1,2-Dichlorobenzene	<41		4330	3890		ug/Kg	✱	90	70 - 125
1,3-Dichlorobenzene	<35		4330	3820		ug/Kg	✱	88	70 - 125
1,4-Dichlorobenzene	<39		4330	3700		ug/Kg	✱	85	70 - 120
Dichlorobromomethane	<49		4330	3310		ug/Kg	✱	77	69 - 120
Dichlorodifluoromethane	<150	*-	4330	2780		ug/Kg	✱	64	40 - 159
1,1-Dichloroethane	<31		4330	3800		ug/Kg	✱	88	70 - 125
1,2-Dichloroethane	<50		4330	3410		ug/Kg	✱	79	68 - 127
1,1-Dichloroethene	<42		4330	3580		ug/Kg	✱	83	67 - 122
1,2-Dichloropropane	<32		4330	3990		ug/Kg	✱	92	67 - 130
1,3-Dichloropropane	<48		4330	3910		ug/Kg	✱	90	62 - 136
2,2-Dichloropropane	<42		4330	2890		ug/Kg	✱	67	58 - 139
1,1-Dichloropropene	<29		4330	3510		ug/Kg	✱	81	70 - 121
Ethylbenzene	<15		4330	3500		ug/Kg	✱	81	70 - 123
Hexachlorobutadiene	<47		4330	3900		ug/Kg	✱	90	51 - 150
Bromomethane	<160		4330	1830		ug/Kg	✱	42	40 - 152
Isopropylbenzene	<25		4330	4160		ug/Kg	✱	96	70 - 126
Chloromethane	<68		4330	3910		ug/Kg	✱	90	56 - 152
Methylene Chloride	<190		4330	3420		ug/Kg	✱	79	69 - 125
Methyl tert-butyl ether	<37		4330	3200		ug/Kg	✱	74	55 - 123
Naphthalene	<38		4330	4520		ug/Kg	✱	104	53 - 144
n-Butylbenzene	<28		4330	3370		ug/Kg	✱	78	68 - 125
N-Propylbenzene	<28		4330	3900		ug/Kg	✱	90	69 - 127
p-Isopropyltoluene	<25		4330	3850		ug/Kg	✱	89	70 - 125
sec-Butylbenzene	<24		4330	3860		ug/Kg	✱	89	70 - 123
Styrene	<27		4330	3620		ug/Kg	✱	84	70 - 120
tert-Butylbenzene	<23		4330	4110		ug/Kg	✱	95	70 - 121
1,1,1,2-Tetrachloroethane	<58		4330	3510		ug/Kg	✱	81	70 - 125
1,1,1,2,2-Tetrachloroethane	<56		4330	3860		ug/Kg	✱	89	62 - 140
Tetrachloroethene	<34		4330	3910		ug/Kg	✱	90	70 - 128
Toluene	<18		4330	3500		ug/Kg	✱	81	70 - 125
trans-1,2-Dichloroethene	<38		4330	3590		ug/Kg	✱	83	70 - 125
trans-1,3-Dichloropropene	<55		4330	3420		ug/Kg	✱	79	62 - 128
1,2,3-Trichlorobenzene	<30		4330	5550		ug/Kg	✱	128	51 - 145
1,2,4-Trichlorobenzene	<27		4330	3940		ug/Kg	✱	91	57 - 137

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-261951-20 MS

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: GETSWC-22-121824

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<39		4330	3120		ug/Kg	✱	72	70 - 125
1,1,2-Trichloroethane	<63		4330	3890		ug/Kg	✱	90	71 - 130
Trichloroethene	<13		4330	3800		ug/Kg	✱	88	70 - 125
Trichlorofluoromethane	<38		4330	3000		ug/Kg	✱	69	55 - 128
1,2,3-Trichloropropane	<130		4330	4010		ug/Kg	✱	93	50 - 133
1,2,4-Trimethylbenzene	<26		4330	3790		ug/Kg	✱	88	70 - 123
1,3,5-Trimethylbenzene	<25		4330	3910		ug/Kg	✱	90	70 - 123
Vinyl chloride	<41		4330	3570		ug/Kg	✱	83	64 - 126
Xylenes, Total	<20		8660	6640		ug/Kg	✱	77	70 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: 500-261951-20 MSD

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: GETSWC-22-121824

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<11		4330	3870		ug/Kg	✱	89	70 - 120	6	30
Bromobenzene	<52		4330	4410		ug/Kg	✱	102	70 - 122	2	30
Bromochloromethane	<43		4330	4010		ug/Kg	✱	93	65 - 122	6	30
Bromoform	<83		4330	3370		ug/Kg	✱	78	56 - 132	8	30
Carbon tetrachloride	<36		4330	3360		ug/Kg	✱	78	59 - 133	6	30
Chlorobenzene	<36		4330	4020		ug/Kg	✱	93	70 - 120	5	30
Chloroethane	<41	*- F1	4330	2050	F1	ug/Kg	✱	47	48 - 136	18	30
Chloroform	<80		4330	3370		ug/Kg	✱	78	70 - 120	4	30
2-Chlorotoluene	<31		4330	4020		ug/Kg	✱	93	70 - 125	2	30
4-Chlorotoluene	<30		4330	3880		ug/Kg	✱	90	68 - 124	3	30
cis-1,2-Dichloroethene	<36		4330	3830		ug/Kg	✱	89	70 - 125	5	30
cis-1,3-Dichloropropene	<45		4330	3720		ug/Kg	✱	86	64 - 127	4	30
Dibromochloromethane	<72		4330	3640		ug/Kg	✱	84	68 - 125	4	30
1,2-Dibromo-3-Chloropropane	<350		4330	3580		ug/Kg	✱	83	56 - 123	8	30
1,2-Dibromoethane (EDB)	<49		4330	3890		ug/Kg	✱	90	70 - 125	4	30
Dibromomethane	<50		4330	3690		ug/Kg	✱	85	70 - 120	8	30
1,2-Dichlorobenzene	<41		4330	4050		ug/Kg	✱	94	70 - 125	4	30
1,3-Dichlorobenzene	<35		4330	4000		ug/Kg	✱	92	70 - 125	5	30
1,4-Dichlorobenzene	<39		4330	3850		ug/Kg	✱	89	70 - 120	4	30
Dichlorobromomethane	<49		4330	3490		ug/Kg	✱	80	69 - 120	5	30
Dichlorodifluoromethane	<150	*-	4330	3350		ug/Kg	✱	77	40 - 159	18	30
1,1-Dichloroethane	<31		4330	4020		ug/Kg	✱	93	70 - 125	6	30
1,2-Dichloroethane	<50		4330	3560		ug/Kg	✱	82	68 - 127	4	30
1,1-Dichloroethene	<42		4330	3770		ug/Kg	✱	87	67 - 122	5	30
1,2-Dichloropropane	<32		4330	4160		ug/Kg	✱	96	67 - 130	4	30
1,3-Dichloropropane	<48		4330	4050		ug/Kg	✱	94	62 - 136	4	30
2,2-Dichloropropane	<42		4330	3040		ug/Kg	✱	70	58 - 139	5	30

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-261951-20 MSD

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: GETSWC-22-121824

Prep Type: Total/NA

Prep Batch: 800649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloropropene	<29		4330	3720		ug/Kg	☼	86	70 - 121	6	30
Ethylbenzene	<15		4330	3640		ug/Kg	☼	84	70 - 123	4	30
Hexachlorobutadiene	<47		4330	4100		ug/Kg	☼	95	51 - 150	5	30
Bromomethane	<160		4330	2190		ug/Kg	☼	51	40 - 152	18	30
Isopropylbenzene	<25		4330	4270		ug/Kg	☼	99	70 - 126	3	30
Chloromethane	<68		4330	4660		ug/Kg	☼	108	56 - 152	18	30
Methylene Chloride	<190		4330	3610		ug/Kg	☼	83	69 - 125	5	30
Methyl tert-butyl ether	<37		4330	3390		ug/Kg	☼	78	55 - 123	6	30
Naphthalene	<38		4330	4760		ug/Kg	☼	110	53 - 144	5	30
n-Butylbenzene	<28		4330	3600		ug/Kg	☼	83	68 - 125	7	30
N-Propylbenzene	<28		4330	4030		ug/Kg	☼	93	69 - 127	3	30
p-Isopropyltoluene	<25		4330	4060		ug/Kg	☼	94	70 - 125	5	30
sec-Butylbenzene	<24		4330	3990		ug/Kg	☼	92	70 - 123	3	30
Styrene	<27		4330	3820		ug/Kg	☼	88	70 - 120	5	30
tert-Butylbenzene	<23		4330	4220		ug/Kg	☼	97	70 - 121	3	30
1,1,1,2-Tetrachloroethane	<58		4330	3650		ug/Kg	☼	84	70 - 125	4	30
1,1,2,2-Tetrachloroethane	<56		4330	4080		ug/Kg	☼	94	62 - 140	6	30
Tetrachloroethene	<34		4330	4090		ug/Kg	☼	94	70 - 128	4	30
Toluene	<18		4330	3630		ug/Kg	☼	84	70 - 125	4	30
trans-1,2-Dichloroethene	<38		4330	3780		ug/Kg	☼	87	70 - 125	5	30
trans-1,3-Dichloropropene	<55		4330	3560		ug/Kg	☼	82	62 - 128	4	30
1,2,3-Trichlorobenzene	<30		4330	5760		ug/Kg	☼	133	51 - 145	4	30
1,2,4-Trichlorobenzene	<27		4330	4270		ug/Kg	☼	99	57 - 137	8	30
1,1,1-Trichloroethane	<39		4330	3320		ug/Kg	☼	77	70 - 125	6	30
1,1,2-Trichloroethane	<63		4330	4040		ug/Kg	☼	93	71 - 130	4	30
Trichloroethene	<13		4330	4000		ug/Kg	☼	92	70 - 125	5	30
Trichlorofluoromethane	<38		4330	3520		ug/Kg	☼	81	55 - 128	16	30
1,2,3-Trichloropropane	<130		4330	4120		ug/Kg	☼	95	50 - 133	3	30
1,2,4-Trimethylbenzene	<26		4330	3950		ug/Kg	☼	91	70 - 123	4	30
1,3,5-Trimethylbenzene	<25		4330	4070		ug/Kg	☼	94	70 - 123	4	30
Vinyl chloride	<41		4330	4260		ug/Kg	☼	98	64 - 126	18	30
Xylenes, Total	<20		8660	6960		ug/Kg	☼	80	70 - 125	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: LB3 500-800650/6-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 800650

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<6.1		13	6.1	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Bromobenzene	<30		50	30	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Bromochloromethane	<25		50	25	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Bromoform	<48		50	48	ug/Kg		12/23/24 23:40	12/28/24 00:19	50

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 500-800650/6-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 800650

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<21		50	21	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Chlorobenzene	<21		50	21	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Chloroethane	<24		250	24	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Chloroform	<46		100	46	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
2-Chlorotoluene	<18		50	18	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
4-Chlorotoluene	<17		50	17	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
cis-1,2-Dichloroethene	<21		50	21	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
cis-1,3-Dichloropropene	<26		50	26	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Dibromochloromethane	<41		50	41	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2-Dibromo-3-Chloropropane	<200		250	200	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2-Dibromoethane (EDB)	<28		50	28	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Dibromomethane	<29		50	29	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2-Dichlorobenzene	<24		50	24	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,4-Dichlorobenzene	<23		50	23	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Dichlorobromomethane	<28		50	28	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Dichlorodifluoromethane	<88		150	88	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1-Dichloroethane	<18		50	18	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2-Dichloroethane	<29		50	29	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1-Dichloroethene	<24		50	24	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2-Dichloropropane	<19		50	19	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,3-Dichloropropane	<28		50	28	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
2,2-Dichloropropane	<24		250	24	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1-Dichloropropene	<17		50	17	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Ethylbenzene	<8.6		13	8.6	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Hexachlorobutadiene	<27		50	27	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Bromomethane	<90		150	90	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Isopropylbenzene	<15		50	15	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Chloromethane	<39		250	39	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Isopropyl ether	<19		50	19	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Methylene Chloride	<110		250	110	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Methyl tert-butyl ether	<22		50	22	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Naphthalene	<22		50	22	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
n-Butylbenzene	<16		50	16	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
N-Propylbenzene	<16		50	16	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
p-Isopropyltoluene	<15		50	15	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
sec-Butylbenzene	<14		50	14	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Styrene	<15		50	15	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
tert-Butylbenzene	<13		50	13	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1,1,2-Tetrachloroethane	<33		50	33	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1,1,2,2-Tetrachloroethane	<32		50	32	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Tetrachloroethene	<19		50	19	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Toluene	<11		13	11	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
trans-1,2-Dichloroethene	<22		50	22	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
trans-1,3-Dichloropropene	<32		50	32	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2,3-Trichlorobenzene	<18		50	18	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2,4-Trichlorobenzene	<15		50	15	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1,1-Trichloroethane	<23		50	23	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,1,2-Trichloroethane	<37		50	37	ug/Kg		12/23/24 23:40	12/28/24 00:19	50

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 500-800650/6-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 800650

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<7.4		25	7.4	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Trichlorofluoromethane	<22		50	22	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2,3-Trichloropropane	<75		100	75	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,2,4-Trimethylbenzene	<15		50	15	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
1,3,5-Trimethylbenzene	<14		50	14	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Vinyl chloride	<23		50	23	ug/Kg		12/23/24 23:40	12/28/24 00:19	50
Xylenes, Total	<12		25	12	ug/Kg		12/23/24 23:40	12/28/24 00:19	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124	12/23/24 23:40	12/28/24 00:19	50
Dibromofluoromethane (Surr)	91		75 - 120	12/23/24 23:40	12/28/24 00:19	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	12/23/24 23:40	12/28/24 00:19	50
Toluene-d8 (Surr)	101		75 - 120	12/23/24 23:40	12/28/24 00:19	50

Lab Sample ID: LCS 500-800650/7-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2500	2310		ug/Kg		92	70 - 120
Bromobenzene	2500	2670		ug/Kg		107	70 - 122
Bromochloromethane	2500	2400		ug/Kg		96	65 - 122
Bromoform	2500	2010		ug/Kg		80	56 - 132
Carbon tetrachloride	2500	2010		ug/Kg		80	59 - 133
Chlorobenzene	2500	2420		ug/Kg		97	70 - 120
Chloroethane	2500	1090	*-	ug/Kg		44	48 - 136
Chloroform	2500	2040		ug/Kg		81	70 - 120
2-Chlorotoluene	2500	2440		ug/Kg		98	70 - 125
4-Chlorotoluene	2500	2340		ug/Kg		94	68 - 124
cis-1,2-Dichloroethene	2500	2310		ug/Kg		92	70 - 125
cis-1,3-Dichloropropene	2500	2250		ug/Kg		90	64 - 127
Dibromochloromethane	2500	2210		ug/Kg		88	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2140		ug/Kg		86	56 - 123
1,2-Dibromoethane (EDB)	2500	2350		ug/Kg		94	70 - 125
Dibromomethane	2500	2200		ug/Kg		88	70 - 120
1,2-Dichlorobenzene	2500	2440		ug/Kg		98	70 - 125
1,3-Dichlorobenzene	2500	2390		ug/Kg		95	70 - 125
1,4-Dichlorobenzene	2500	2310		ug/Kg		92	70 - 120
Dichlorobromomethane	2500	2110		ug/Kg		84	69 - 120
Dichlorodifluoromethane	2500	801	*-	ug/Kg		32	40 - 159
1,1-Dichloroethane	2500	2380		ug/Kg		95	70 - 125
1,2-Dichloroethane	2500	2130		ug/Kg		85	68 - 127
1,1-Dichloroethene	2500	2200		ug/Kg		88	67 - 122
1,2-Dichloropropane	2500	2490		ug/Kg		100	67 - 130
1,3-Dichloropropane	2500	2470		ug/Kg		99	62 - 136
2,2-Dichloropropane	2500	1840		ug/Kg		74	58 - 139
1,1-Dichloropropene	2500	2210		ug/Kg		88	70 - 121
Ethylbenzene	2500	2210		ug/Kg		88	70 - 123

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800650/7-A

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	2500	2360		ug/Kg		94	51 - 150
Bromomethane	2500	1090		ug/Kg		44	40 - 152
Isopropylbenzene	2500	2540		ug/Kg		102	70 - 126
Chloromethane	2500	1760		ug/Kg		71	56 - 152
Methylene Chloride	2500	2150		ug/Kg		86	69 - 125
Methyl tert-butyl ether	2500	2050		ug/Kg		82	55 - 123
Naphthalene	2500	2740		ug/Kg		110	53 - 144
n-Butylbenzene	2500	2120		ug/Kg		85	68 - 125
N-Propylbenzene	2500	2400		ug/Kg		96	69 - 127
p-Isopropyltoluene	2500	2430		ug/Kg		97	70 - 125
sec-Butylbenzene	2500	2380		ug/Kg		95	70 - 123
Styrene	2500	2320		ug/Kg		93	70 - 120
tert-Butylbenzene	2500	2550		ug/Kg		102	70 - 121
1,1,1,2-Tetrachloroethane	2500	2220		ug/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	2500	2430		ug/Kg		97	62 - 140
Tetrachloroethene	2500	2470		ug/Kg		99	70 - 128
Toluene	2500	2200		ug/Kg		88	70 - 125
trans-1,2-Dichloroethene	2500	2240		ug/Kg		90	70 - 125
trans-1,3-Dichloropropene	2500	2160		ug/Kg		86	62 - 128
1,2,3-Trichlorobenzene	2500	3290		ug/Kg		132	51 - 145
1,2,4-Trichlorobenzene	2500	2490		ug/Kg		100	57 - 137
1,1,1-Trichloroethane	2500	1980		ug/Kg		79	70 - 125
1,1,2-Trichloroethane	2500	2450		ug/Kg		98	71 - 130
Trichloroethene	2500	2380		ug/Kg		95	70 - 125
Trichlorofluoromethane	2500	1770		ug/Kg		71	55 - 128
1,2,3-Trichloropropane	2500	2470		ug/Kg		99	50 - 133
1,2,4-Trimethylbenzene	2500	2370		ug/Kg		95	70 - 123
1,3,5-Trimethylbenzene	2500	2420		ug/Kg		97	70 - 123
Vinyl chloride	2500	1820		ug/Kg		73	64 - 126
Xylenes, Total	5000	4200		ug/Kg		84	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: 500-261951-21 MS

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<12	F1	5580	7150	F1	ug/Kg	☼	128	70 - 120
Bromobenzene	<60		5580	5210		ug/Kg	☼	93	70 - 122
Bromochloromethane	<50	F1	5580	6630		ug/Kg	☼	119	65 - 122
Bromoform	<97		5580	5260		ug/Kg	☼	94	56 - 132
Bromomethane	<180	F1	5580	8540	F1	ug/Kg	☼	153	40 - 152
Carbon tetrachloride	<42	F1	5580	7080		ug/Kg	☼	127	59 - 133

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-261951-21 MS

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	<41		5580	5910		ug/Kg	✱	106	70 - 120
Chloroethane	<47	*-	5580	5640		ug/Kg	✱	101	48 - 136
Chloroform	<93	F1	5580	6920	F1	ug/Kg	✱	124	70 - 120
Chloromethane	<79		5580	4690		ug/Kg	✱	84	56 - 152
2-Chlorotoluene	<36		5580	5290		ug/Kg	✱	95	70 - 125
4-Chlorotoluene	<34		5580	5420		ug/Kg	✱	97	68 - 124
cis-1,2-Dichloroethene	<42		5580	6640		ug/Kg	✱	119	70 - 125
cis-1,3-Dichloropropene	<52		5580	5300		ug/Kg	✱	95	64 - 127
Dibromochloromethane	<83		5580	5480		ug/Kg	✱	98	68 - 125
1,2-Dibromo-3-Chloropropane	<410		5580	4850		ug/Kg	✱	87	56 - 123
1,2-Dibromoethane (EDB)	<56		5580	5810		ug/Kg	✱	104	70 - 125
Dibromomethane	<58	F1	5580	6910	F1	ug/Kg	✱	124	70 - 120
1,2-Dichlorobenzene	<48		5580	5740		ug/Kg	✱	103	70 - 125
1,3-Dichlorobenzene	<41		5580	5480		ug/Kg	✱	98	70 - 125
1,4-Dichlorobenzene	<46		5580	5550		ug/Kg	✱	99	70 - 120
Dichlorobromomethane	<57	F1	5580	6820	F1	ug/Kg	✱	122	69 - 120
Dichlorodifluoromethane	<180	*-	5580	4800		ug/Kg	✱	86	40 - 159
1,1-Dichloroethane	<37		5580	6350		ug/Kg	✱	114	70 - 125
1,2-Dichloroethane	<58	F1	5580	6760		ug/Kg	✱	121	68 - 127
1,1-Dichloroethene	<48	F1	5580	6920	F1	ug/Kg	✱	124	67 - 122
1,2-Dichloropropane	<38		5580	6250		ug/Kg	✱	112	67 - 130
1,3-Dichloropropane	<56		5580	5850		ug/Kg	✱	105	62 - 136
2,2-Dichloropropane	<49		5580	6020		ug/Kg	✱	108	58 - 139
1,1-Dichloropropene	<34		5580	6330		ug/Kg	✱	113	70 - 121
Ethylbenzene	<17		5580	5470		ug/Kg	✱	98	70 - 123
Hexachlorobutadiene	<54		5580	5340		ug/Kg	✱	96	51 - 150
Isopropylbenzene	<29		5580	4830		ug/Kg	✱	87	70 - 126
Methylene Chloride	<220		5580	6020		ug/Kg	✱	108	69 - 125
Methyl tert-butyl ether	<44		5580	5980		ug/Kg	✱	107	55 - 123
Naphthalene	<44		5580	4520		ug/Kg	✱	81	53 - 144
n-Butylbenzene	<33		5580	5440		ug/Kg	✱	97	68 - 125
N-Propylbenzene	<32		5580	5270		ug/Kg	✱	95	69 - 127
p-Isopropyltoluene	<29		5580	4980		ug/Kg	✱	89	70 - 125
sec-Butylbenzene	<27		5580	5490		ug/Kg	✱	98	70 - 123
Styrene	<31		5580	5610		ug/Kg	✱	101	70 - 120
tert-Butylbenzene	<27		5580	5410		ug/Kg	✱	97	70 - 121
1,1,1,2-Tetrachloroethane	<67		5580	6170		ug/Kg	✱	111	70 - 125
1,1,2,2-Tetrachloroethane	<65		5580	5470		ug/Kg	✱	98	62 - 140
Tetrachloroethene	<39		5580	5640		ug/Kg	✱	101	70 - 128
Toluene	<21		5580	5650		ug/Kg	✱	101	70 - 125
trans-1,2-Dichloroethene	<44	F1	5580	6870		ug/Kg	✱	123	70 - 125
trans-1,3-Dichloropropene	<64		5580	5130		ug/Kg	✱	92	62 - 128
1,2,3-Trichlorobenzene	<35		5580	4940		ug/Kg	✱	88	51 - 145
1,2,4-Trichlorobenzene	<31		5580	4920		ug/Kg	✱	88	57 - 137
1,1,1-Trichloroethane	<45	F1	5580	7040	F1	ug/Kg	✱	126	70 - 125
1,1,2-Trichloroethane	<73		5580	5140		ug/Kg	✱	92	71 - 130
Trichloroethene	<15	F1	5580	7170	F1	ug/Kg	✱	129	70 - 125
Trichlorofluoromethane	<45	F1	5580	7040		ug/Kg	✱	126	55 - 128
1,2,3-Trichloropropane	<150		5580	5160		ug/Kg	✱	93	50 - 133

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-261951-21 MS

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	<30		5580	5340		ug/Kg	☼	96	70 - 123
1,3,5-Trimethylbenzene	<29		5580	5310		ug/Kg	☼	95	70 - 123
Vinyl chloride	<47		5580	4790		ug/Kg	☼	86	64 - 126
Xylenes, Total	<24		11200	11900		ug/Kg	☼	107	70 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		72 - 124
Dibromofluoromethane (Surr)	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	84		75 - 120

Lab Sample ID: 500-261951-21 MSD

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<12	F1	5360	7270	F1	ug/Kg	☼	136	70 - 120	2	30
Bromobenzene	<60		5360	5250		ug/Kg	☼	98	70 - 122	1	30
Bromochloromethane	<50	F1	5360	6850	F1	ug/Kg	☼	128	65 - 122	3	30
Bromoform	<97		5360	5540		ug/Kg	☼	103	56 - 132	5	30
Bromomethane	<180	F1	5360	8770	F1	ug/Kg	☼	164	40 - 152	3	30
Carbon tetrachloride	<42	F1	5360	7160	F1	ug/Kg	☼	134	59 - 133	1	30
Chlorobenzene	<41		5360	6180		ug/Kg	☼	115	70 - 120	4	30
Chloroethane	<47	*-	5360	5720		ug/Kg	☼	107	48 - 136	2	30
Chloroform	<93	F1	5360	7060	F1	ug/Kg	☼	132	70 - 120	2	30
Chloromethane	<79		5360	4860		ug/Kg	☼	91	56 - 152	4	30
2-Chlorotoluene	<36		5360	5270		ug/Kg	☼	98	70 - 125	0	30
4-Chlorotoluene	<34		5360	5480		ug/Kg	☼	102	68 - 124	1	30
cis-1,2-Dichloroethene	<42		5360	6640		ug/Kg	☼	124	70 - 125	0	30
cis-1,3-Dichloropropene	<52		5360	5540		ug/Kg	☼	103	64 - 127	5	30
Dibromochloromethane	<83		5360	5800		ug/Kg	☼	108	68 - 125	6	30
1,2-Dibromo-3-Chloropropane	<410		5360	4970		ug/Kg	☼	93	56 - 123	3	30
1,2-Dibromoethane (EDB)	<56		5360	6200		ug/Kg	☼	116	70 - 125	6	30
Dibromomethane	<58	F1	5360	6740	F1	ug/Kg	☼	126	70 - 120	2	30
1,2-Dichlorobenzene	<48		5360	5710		ug/Kg	☼	107	70 - 125	1	30
1,3-Dichlorobenzene	<41		5360	5480		ug/Kg	☼	102	70 - 125	0	30
1,4-Dichlorobenzene	<46		5360	5600		ug/Kg	☼	104	70 - 120	1	30
Dichlorobromomethane	<57	F1	5360	6980	F1	ug/Kg	☼	130	69 - 120	2	30
Dichlorodifluoromethane	<180	*-	5360	5250		ug/Kg	☼	98	40 - 159	9	30
1,1-Dichloroethane	<37		5360	6410		ug/Kg	☼	120	70 - 125	1	30
1,2-Dichloroethane	<58	F1	5360	6870	F1	ug/Kg	☼	128	68 - 127	2	30
1,1-Dichloroethene	<48	F1	5360	7040	F1	ug/Kg	☼	131	67 - 122	2	30
1,2-Dichloropropane	<38		5360	6390		ug/Kg	☼	119	67 - 130	2	30
1,3-Dichloropropane	<56		5360	6140		ug/Kg	☼	115	62 - 136	5	30
2,2-Dichloropropane	<49		5360	6090		ug/Kg	☼	114	58 - 139	1	30
1,1-Dichloropropene	<34		5360	6460		ug/Kg	☼	121	70 - 121	2	30
Ethylbenzene	<17		5360	5740		ug/Kg	☼	107	70 - 123	5	30
Hexachlorobutadiene	<54		5360	5320		ug/Kg	☼	99	51 - 150	0	30

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-261951-21 MSD

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 800650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isopropylbenzene	<29		5360	4870		ug/Kg	✱	91	70 - 126	1	30
Methylene Chloride	<220		5360	6130		ug/Kg	✱	114	69 - 125	2	30
Methyl tert-butyl ether	<44		5360	6050		ug/Kg	✱	113	55 - 123	1	30
Naphthalene	<44		5360	4650		ug/Kg	✱	87	53 - 144	3	30
n-Butylbenzene	<33		5360	5580		ug/Kg	✱	104	68 - 125	3	30
N-Propylbenzene	<32		5360	5270		ug/Kg	✱	98	69 - 127	0	30
p-Isopropyltoluene	<29		5360	5060		ug/Kg	✱	95	70 - 125	2	30
sec-Butylbenzene	<27		5360	5440		ug/Kg	✱	102	70 - 123	1	30
Styrene	<31		5360	5860		ug/Kg	✱	109	70 - 120	4	30
tert-Butylbenzene	<27		5360	5480		ug/Kg	✱	102	70 - 121	1	30
1,1,1,2-Tetrachloroethane	<67		5360	6490		ug/Kg	✱	121	70 - 125	5	30
1,1,2,2-Tetrachloroethane	<65		5360	5530		ug/Kg	✱	103	62 - 140	1	30
Tetrachloroethene	<39		5360	5950		ug/Kg	✱	111	70 - 128	5	30
Toluene	<21		5360	5980		ug/Kg	✱	112	70 - 125	6	30
trans-1,2-Dichloroethene	<44	F1	5360	7020	F1	ug/Kg	✱	131	70 - 125	2	30
trans-1,3-Dichloropropene	<64		5360	5460		ug/Kg	✱	102	62 - 128	6	30
1,2,3-Trichlorobenzene	<35		5360	5100		ug/Kg	✱	95	51 - 145	3	30
1,2,4-Trichlorobenzene	<31		5360	5020		ug/Kg	✱	94	57 - 137	2	30
1,1,1-Trichloroethane	<45	F1	5360	7240	F1	ug/Kg	✱	135	70 - 125	3	30
1,1,2-Trichloroethane	<73		5360	5450		ug/Kg	✱	102	71 - 130	6	30
Trichloroethene	<15	F1	5360	7160	F1	ug/Kg	✱	134	70 - 125	0	30
Trichlorofluoromethane	<45	F1	5360	7440	F1	ug/Kg	✱	139	55 - 128	5	30
1,2,3-Trichloropropane	<150		5360	5190		ug/Kg	✱	97	50 - 133	1	30
1,2,4-Trimethylbenzene	<30		5360	5410		ug/Kg	✱	101	70 - 123	1	30
1,3,5-Trimethylbenzene	<29		5360	5330		ug/Kg	✱	99	70 - 123	0	30
Vinyl chloride	<47		5360	5230		ug/Kg	✱	98	64 - 126	9	30
Xylenes, Total	<24		10700	12500		ug/Kg	✱	117	70 - 125	5	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	79		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	87		75 - 120

Lab Sample ID: MB 500-800956/7

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.12		0.25	0.12	ug/Kg			12/27/24 23:38	1
Bromobenzene	<0.60		1.0	0.60	ug/Kg			12/27/24 23:38	1
Bromochloromethane	<0.50		1.0	0.50	ug/Kg			12/27/24 23:38	1
Bromoform	<0.96		1.0	0.96	ug/Kg			12/27/24 23:38	1
Carbon tetrachloride	<0.41		1.0	0.41	ug/Kg			12/27/24 23:38	1
Chlorobenzene	<0.41		1.0	0.41	ug/Kg			12/27/24 23:38	1
Chloroethane	<0.47		5.0	0.47	ug/Kg			12/27/24 23:38	1
Chloroform	0.999	J	2.0	0.92	ug/Kg			12/27/24 23:38	1
2-Chlorotoluene	<0.36		1.0	0.36	ug/Kg			12/27/24 23:38	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-800956/7

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.34		1.0	0.34	ug/Kg			12/27/24 23:38	1
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/Kg			12/27/24 23:38	1
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/Kg			12/27/24 23:38	1
Dibromochloromethane	<0.83		1.0	0.83	ug/Kg			12/27/24 23:38	1
1,2-Dibromo-3-Chloropropane	<4.1		5.0	4.1	ug/Kg			12/27/24 23:38	1
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/Kg			12/27/24 23:38	1
Dibromomethane	<0.58		1.0	0.58	ug/Kg			12/27/24 23:38	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/Kg			12/27/24 23:38	1
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/Kg			12/27/24 23:38	1
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/Kg			12/27/24 23:38	1
Dichlorobromomethane	<0.57		1.0	0.57	ug/Kg			12/27/24 23:38	1
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/Kg			12/27/24 23:38	1
1,1-Dichloroethane	<0.36		1.0	0.36	ug/Kg			12/27/24 23:38	1
1,2-Dichloroethane	<0.58		1.0	0.58	ug/Kg			12/27/24 23:38	1
1,1-Dichloroethene	<0.48		1.0	0.48	ug/Kg			12/27/24 23:38	1
1,2-Dichloropropane	<0.37		1.0	0.37	ug/Kg			12/27/24 23:38	1
1,3-Dichloropropane	<0.56		1.0	0.56	ug/Kg			12/27/24 23:38	1
2,2-Dichloropropane	<0.48		5.0	0.48	ug/Kg			12/27/24 23:38	1
1,1-Dichloropropene	<0.33		1.0	0.33	ug/Kg			12/27/24 23:38	1
Ethylbenzene	<0.17		0.25	0.17	ug/Kg			12/27/24 23:38	1
Hexachlorobutadiene	<0.54		1.0	0.54	ug/Kg			12/27/24 23:38	1
Bromomethane	<1.8		3.0	1.8	ug/Kg			12/27/24 23:38	1
Isopropylbenzene	<0.29		1.0	0.29	ug/Kg			12/27/24 23:38	1
Chloromethane	<0.79		5.0	0.79	ug/Kg			12/27/24 23:38	1
Isopropyl ether	<0.38		1.0	0.38	ug/Kg			12/27/24 23:38	1
Methylene Chloride	<2.1		5.0	2.1	ug/Kg			12/27/24 23:38	1
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/Kg			12/27/24 23:38	1
Naphthalene	<0.44		1.0	0.44	ug/Kg			12/27/24 23:38	1
n-Butylbenzene	<0.33		1.0	0.33	ug/Kg			12/27/24 23:38	1
N-Propylbenzene	<0.32		1.0	0.32	ug/Kg			12/27/24 23:38	1
p-Isopropyltoluene	<0.29		1.0	0.29	ug/Kg			12/27/24 23:38	1
sec-Butylbenzene	<0.27		1.0	0.27	ug/Kg			12/27/24 23:38	1
Styrene	<0.31		1.0	0.31	ug/Kg			12/27/24 23:38	1
tert-Butylbenzene	<0.26		1.0	0.26	ug/Kg			12/27/24 23:38	1
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/Kg			12/27/24 23:38	1
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/Kg			12/27/24 23:38	1
Tetrachloroethene	<0.39		1.0	0.39	ug/Kg			12/27/24 23:38	1
Toluene	<0.21		0.25	0.21	ug/Kg			12/27/24 23:38	1
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/Kg			12/27/24 23:38	1
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/Kg			12/27/24 23:38	1
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/Kg			12/27/24 23:38	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/Kg			12/27/24 23:38	1
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/Kg			12/27/24 23:38	1
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/Kg			12/27/24 23:38	1
Trichloroethene	<0.15		0.50	0.15	ug/Kg			12/27/24 23:38	1
Trichlorofluoromethane	<0.44		1.0	0.44	ug/Kg			12/27/24 23:38	1
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/Kg			12/27/24 23:38	1
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/Kg			12/27/24 23:38	1
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/Kg			12/27/24 23:38	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-800956/7

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.47		1.0	0.47	ug/Kg			12/27/24 23:38	1
Xylenes, Total	<0.24		0.50	0.24	ug/Kg			12/27/24 23:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		72 - 124					12/27/24 23:38	1
Dibromofluoromethane (Surr)	95		75 - 120					12/27/24 23:38	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 126					12/27/24 23:38	1
Toluene-d8 (Surr)	85		75 - 120					12/27/24 23:38	1

Lab Sample ID: LCS 500-800956/4

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	59.7		ug/Kg		119	70 - 120
Bromobenzene	50.0	44.4		ug/Kg		89	70 - 122
Bromochloromethane	50.0	54.3		ug/Kg		109	65 - 122
Bromoform	50.0	42.1		ug/Kg		84	56 - 132
Carbon tetrachloride	50.0	59.8		ug/Kg		120	59 - 133
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 120
Chloroethane	50.0	46.9		ug/Kg		94	48 - 136
Chloroform	50.0	57.9		ug/Kg		116	70 - 120
2-Chlorotoluene	50.0	46.3		ug/Kg		93	70 - 125
4-Chlorotoluene	50.0	47.6		ug/Kg		95	68 - 124
cis-1,2-Dichloroethene	50.0	54.4		ug/Kg		109	70 - 125
cis-1,3-Dichloropropene	50.0	44.1		ug/Kg		88	64 - 127
Dibromochloromethane	50.0	44.8		ug/Kg		90	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	36.6		ug/Kg		73	56 - 123
1,2-Dibromoethane (EDB)	50.0	47.2		ug/Kg		94	70 - 125
Dibromomethane	50.0	55.8		ug/Kg		112	70 - 120
1,2-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 125
1,3-Dichlorobenzene	50.0	47.1		ug/Kg		94	70 - 125
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	70 - 120
Dichlorobromomethane	50.0	56.2		ug/Kg		112	69 - 120
Dichlorodifluoromethane	50.0	43.9		ug/Kg		88	40 - 159
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	70 - 125
1,2-Dichloroethane	50.0	54.4		ug/Kg		109	68 - 127
1,1-Dichloroethene	50.0	58.0		ug/Kg		116	67 - 122
1,2-Dichloropropane	50.0	51.3		ug/Kg		103	67 - 130
1,3-Dichloropropane	50.0	48.8		ug/Kg		98	62 - 136
2,2-Dichloropropane	50.0	51.0		ug/Kg		102	58 - 139
1,1-Dichloropropene	50.0	54.3		ug/Kg		109	70 - 121
Ethylbenzene	50.0	46.7		ug/Kg		93	70 - 123
Hexachlorobutadiene	50.0	45.8		ug/Kg		92	51 - 150
Bromomethane	50.0	71.1		ug/Kg		142	40 - 152
Isopropylbenzene	50.0	42.6		ug/Kg		85	70 - 126
Chloromethane	50.0	42.3		ug/Kg		85	56 - 152
Methylene Chloride	50.0	49.1		ug/Kg		98	69 - 125

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800956/4

Matrix: Solid

Analysis Batch: 800956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tert-butyl ether	50.0	46.6		ug/Kg		93	55 - 123
Naphthalene	50.0	37.9		ug/Kg		76	53 - 144
n-Butylbenzene	50.0	49.8		ug/Kg		100	68 - 125
N-Propylbenzene	50.0	47.2		ug/Kg		94	69 - 127
p-Isopropyltoluene	50.0	44.0		ug/Kg		88	70 - 125
sec-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 123
Styrene	50.0	47.2		ug/Kg		94	70 - 120
tert-Butylbenzene	50.0	46.5		ug/Kg		93	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.2		ug/Kg		86	62 - 140
Tetrachloroethene	50.0	49.5		ug/Kg		99	70 - 128
Toluene	50.0	48.5		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	58.4		ug/Kg		117	70 - 125
trans-1,3-Dichloropropene	50.0	43.3		ug/Kg		87	62 - 128
1,2,3-Trichlorobenzene	50.0	44.8		ug/Kg		90	51 - 145
1,2,4-Trichlorobenzene	50.0	44.9		ug/Kg		90	57 - 137
1,1,1-Trichloroethane	50.0	58.6		ug/Kg		117	70 - 125
1,1,2-Trichloroethane	50.0	42.8		ug/Kg		86	71 - 130
Trichloroethene	50.0	59.7		ug/Kg		119	70 - 125
Trichlorofluoromethane	50.0	58.4		ug/Kg		117	55 - 128
1,2,3-Trichloropropane	50.0	41.5		ug/Kg		83	50 - 133
1,2,4-Trimethylbenzene	50.0	46.4		ug/Kg		93	70 - 123
1,3,5-Trimethylbenzene	50.0	46.6		ug/Kg		93	70 - 123
Vinyl chloride	50.0	46.3		ug/Kg		93	64 - 126
Xylenes, Total	100	101		ug/Kg		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	86		75 - 120

Lab Sample ID: MB 500-800959/7

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.12		0.25	0.12	ug/Kg			12/27/24 23:32	1
Bromobenzene	<0.60		1.0	0.60	ug/Kg			12/27/24 23:32	1
Bromochloromethane	<0.50		1.0	0.50	ug/Kg			12/27/24 23:32	1
Bromoform	<0.96		1.0	0.96	ug/Kg			12/27/24 23:32	1
Carbon tetrachloride	<0.41		1.0	0.41	ug/Kg			12/27/24 23:32	1
Chlorobenzene	<0.41		1.0	0.41	ug/Kg			12/27/24 23:32	1
Chloroethane	<0.47		5.0	0.47	ug/Kg			12/27/24 23:32	1
Chloroform	<0.92		2.0	0.92	ug/Kg			12/27/24 23:32	1
2-Chlorotoluene	<0.36		1.0	0.36	ug/Kg			12/27/24 23:32	1
4-Chlorotoluene	<0.34		1.0	0.34	ug/Kg			12/27/24 23:32	1
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/Kg			12/27/24 23:32	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-800959/7

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/Kg			12/27/24 23:32	1
Dibromochloromethane	<0.83		1.0	0.83	ug/Kg			12/27/24 23:32	1
1,2-Dibromo-3-Chloropropane	<4.1		5.0	4.1	ug/Kg			12/27/24 23:32	1
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/Kg			12/27/24 23:32	1
Dibromomethane	<0.58		1.0	0.58	ug/Kg			12/27/24 23:32	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/Kg			12/27/24 23:32	1
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/Kg			12/27/24 23:32	1
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/Kg			12/27/24 23:32	1
Dichlorobromomethane	<0.57		1.0	0.57	ug/Kg			12/27/24 23:32	1
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/Kg			12/27/24 23:32	1
1,1-Dichloroethane	<0.36		1.0	0.36	ug/Kg			12/27/24 23:32	1
1,2-Dichloroethane	<0.58		1.0	0.58	ug/Kg			12/27/24 23:32	1
1,1-Dichloroethene	<0.48		1.0	0.48	ug/Kg			12/27/24 23:32	1
1,2-Dichloropropane	<0.37		1.0	0.37	ug/Kg			12/27/24 23:32	1
1,3-Dichloropropane	<0.56		1.0	0.56	ug/Kg			12/27/24 23:32	1
2,2-Dichloropropane	<0.48		5.0	0.48	ug/Kg			12/27/24 23:32	1
1,1-Dichloropropene	<0.33		1.0	0.33	ug/Kg			12/27/24 23:32	1
Ethylbenzene	<0.17		0.25	0.17	ug/Kg			12/27/24 23:32	1
Hexachlorobutadiene	<0.54		1.0	0.54	ug/Kg			12/27/24 23:32	1
Bromomethane	<1.8		3.0	1.8	ug/Kg			12/27/24 23:32	1
Isopropylbenzene	<0.29		1.0	0.29	ug/Kg			12/27/24 23:32	1
Chloromethane	<0.79		5.0	0.79	ug/Kg			12/27/24 23:32	1
Isopropyl ether	<0.38		1.0	0.38	ug/Kg			12/27/24 23:32	1
Methylene Chloride	<2.1		5.0	2.1	ug/Kg			12/27/24 23:32	1
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/Kg			12/27/24 23:32	1
Naphthalene	<0.44		1.0	0.44	ug/Kg			12/27/24 23:32	1
n-Butylbenzene	<0.33		1.0	0.33	ug/Kg			12/27/24 23:32	1
N-Propylbenzene	<0.32		1.0	0.32	ug/Kg			12/27/24 23:32	1
p-Isopropyltoluene	<0.29		1.0	0.29	ug/Kg			12/27/24 23:32	1
sec-Butylbenzene	<0.27		1.0	0.27	ug/Kg			12/27/24 23:32	1
Styrene	<0.31		1.0	0.31	ug/Kg			12/27/24 23:32	1
tert-Butylbenzene	<0.26		1.0	0.26	ug/Kg			12/27/24 23:32	1
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/Kg			12/27/24 23:32	1
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/Kg			12/27/24 23:32	1
Tetrachloroethene	<0.39		1.0	0.39	ug/Kg			12/27/24 23:32	1
Toluene	<0.21		0.25	0.21	ug/Kg			12/27/24 23:32	1
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/Kg			12/27/24 23:32	1
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/Kg			12/27/24 23:32	1
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/Kg			12/27/24 23:32	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/Kg			12/27/24 23:32	1
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/Kg			12/27/24 23:32	1
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/Kg			12/27/24 23:32	1
Trichloroethene	<0.15		0.50	0.15	ug/Kg			12/27/24 23:32	1
Trichlorofluoromethane	<0.44		1.0	0.44	ug/Kg			12/27/24 23:32	1
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/Kg			12/27/24 23:32	1
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/Kg			12/27/24 23:32	1
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/Kg			12/27/24 23:32	1
Vinyl chloride	<0.47		1.0	0.47	ug/Kg			12/27/24 23:32	1
Xylenes, Total	<0.24		0.50	0.24	ug/Kg			12/27/24 23:32	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		12/27/24 23:32	1
Dibromofluoromethane (Surr)	95		75 - 120		12/27/24 23:32	1
1,2-Dichloroethane-d4 (Surr)	83		75 - 126		12/27/24 23:32	1
Toluene-d8 (Surr)	103		75 - 120		12/27/24 23:32	1

Lab Sample ID: LCS 500-800959/4

Matrix: Solid

Analysis Batch: 800959

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	47.0		ug/Kg		94	70 - 120
Bromobenzene	50.0	53.2		ug/Kg		106	70 - 122
Bromochloromethane	50.0	46.3		ug/Kg		93	65 - 122
Bromoform	50.0	40.7		ug/Kg		81	56 - 132
Carbon tetrachloride	50.0	43.0		ug/Kg		86	59 - 133
Chlorobenzene	50.0	49.5		ug/Kg		99	70 - 120
Chloroethane	50.0	34.7		ug/Kg		69	48 - 136
Chloroform	50.0	41.0		ug/Kg		82	70 - 120
2-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 125
4-Chlorotoluene	50.0	48.8		ug/Kg		98	68 - 124
cis-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	64 - 127
Dibromochloromethane	50.0	44.2		ug/Kg		88	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.5		ug/Kg		75	56 - 123
1,2-Dibromoethane (EDB)	50.0	45.7		ug/Kg		91	70 - 125
Dibromomethane	50.0	42.8		ug/Kg		86	70 - 120
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	70 - 125
1,3-Dichlorobenzene	50.0	49.4		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	50.0	47.1		ug/Kg		94	70 - 120
Dichlorobromomethane	50.0	42.5		ug/Kg		85	69 - 120
Dichlorodifluoromethane	50.0	38.7		ug/Kg		77	40 - 159
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	41.7		ug/Kg		83	68 - 127
1,1-Dichloroethene	50.0	47.3		ug/Kg		95	67 - 122
1,2-Dichloropropane	50.0	49.8		ug/Kg		100	67 - 130
1,3-Dichloropropane	50.0	48.3		ug/Kg		97	62 - 136
2,2-Dichloropropane	50.0	38.8		ug/Kg		78	58 - 139
1,1-Dichloropropene	50.0	47.0		ug/Kg		94	70 - 121
Ethylbenzene	50.0	45.8		ug/Kg		92	70 - 123
Hexachlorobutadiene	50.0	47.0		ug/Kg		94	51 - 150
Bromomethane	50.0	36.8		ug/Kg		74	40 - 152
Isopropylbenzene	50.0	53.4		ug/Kg		107	70 - 126
Chloromethane	50.0	53.5		ug/Kg		107	56 - 152
Methylene Chloride	50.0	43.1		ug/Kg		86	69 - 125
Methyl tert-butyl ether	50.0	38.7		ug/Kg		77	55 - 123
Naphthalene	50.0	43.8		ug/Kg		88	53 - 144
n-Butylbenzene	50.0	46.9		ug/Kg		94	68 - 125
N-Propylbenzene	50.0	52.0		ug/Kg		104	69 - 127
p-Isopropyltoluene	50.0	51.3		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 123
Styrene	50.0	47.0		ug/Kg		94	70 - 120

Eurofins Chicago

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800959/4

Matrix: Solid

Analysis Batch: 800959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	50.0	52.2		ug/Kg		104	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.4		ug/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	62 - 140
Tetrachloroethene	50.0	52.5		ug/Kg		105	70 - 128
Toluene	50.0	45.2		ug/Kg		90	70 - 125
trans-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	50.0	44.0		ug/Kg		88	62 - 128
1,2,3-Trichlorobenzene	50.0	55.6		ug/Kg		111	51 - 145
1,2,4-Trichlorobenzene	50.0	47.9		ug/Kg		96	57 - 137
1,1,1-Trichloroethane	50.0	40.3		ug/Kg		81	70 - 125
1,1,2-Trichloroethane	50.0	47.4		ug/Kg		95	71 - 130
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	40.7		ug/Kg		81	55 - 128
1,2,3-Trichloropropane	50.0	45.4		ug/Kg		91	50 - 133
1,2,4-Trimethylbenzene	50.0	49.0		ug/Kg		98	70 - 123
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 123
Vinyl chloride	50.0	48.7		ug/Kg		97	64 - 126
Xylenes, Total	100	86.9		ug/Kg		87	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-800983/7

Matrix: Water

Analysis Batch: 800983

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.18		0.50	0.18	ug/L			12/28/24 20:57	1
Bromobenzene	<0.60		1.0	0.60	ug/L			12/28/24 20:57	1
Bromochloromethane	<0.50		1.0	0.50	ug/L			12/28/24 20:57	1
Bromoform	<0.96		1.0	0.96	ug/L			12/28/24 20:57	1
Carbon tetrachloride	<0.41		1.0	0.41	ug/L			12/28/24 20:57	1
Chlorobenzene	<0.41		1.0	0.41	ug/L			12/28/24 20:57	1
Chloroethane	<0.47		5.0	0.47	ug/L			12/28/24 20:57	1
Chloroform	<0.92		2.0	0.92	ug/L			12/28/24 20:57	1
2-Chlorotoluene	<0.36		1.0	0.36	ug/L			12/28/24 20:57	1
4-Chlorotoluene	<0.34		1.0	0.34	ug/L			12/28/24 20:57	1
cis-1,2-Dichloroethene	<0.42		1.0	0.42	ug/L			12/28/24 20:57	1
cis-1,3-Dichloropropene	<0.52		1.0	0.52	ug/L			12/28/24 20:57	1
Dibromochloromethane	<0.83		1.0	0.83	ug/L			12/28/24 20:57	1
1,2-Dibromo-3-Chloropropane	<3.9		5.0	3.9	ug/L			12/28/24 20:57	1
1,2-Dibromoethane (EDB)	<0.56		1.0	0.56	ug/L			12/28/24 20:57	1
Dibromomethane	<0.58		1.0	0.58	ug/L			12/28/24 20:57	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L			12/28/24 20:57	1
1,3-Dichlorobenzene	<0.41		1.0	0.41	ug/L			12/28/24 20:57	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-800983/7

Matrix: Water

Analysis Batch: 800983

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.45		1.0	0.45	ug/L			12/28/24 20:57	1
Dichlorobromomethane	<0.57		1.0	0.57	ug/L			12/28/24 20:57	1
Dichlorodifluoromethane	<1.8		3.0	1.8	ug/L			12/28/24 20:57	1
1,1-Dichloroethane	<0.36		1.0	0.36	ug/L			12/28/24 20:57	1
1,2-Dichloroethane	<0.58		1.0	0.58	ug/L			12/28/24 20:57	1
1,1-Dichloroethene	<0.48		1.0	0.48	ug/L			12/28/24 20:57	1
1,2-Dichloropropane	<0.37		1.0	0.37	ug/L			12/28/24 20:57	1
1,3-Dichloropropane	<0.56		1.0	0.56	ug/L			12/28/24 20:57	1
2,2-Dichloropropane	<0.48		5.0	0.48	ug/L			12/28/24 20:57	1
1,1-Dichloropropene	<0.33		1.0	0.33	ug/L			12/28/24 20:57	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			12/28/24 20:57	1
Hexachlorobutadiene	<0.54		1.0	0.54	ug/L			12/28/24 20:57	1
Bromomethane	<1.8		3.0	1.8	ug/L			12/28/24 20:57	1
Isopropylbenzene	<0.29		1.0	0.29	ug/L			12/28/24 20:57	1
Chloromethane	<0.79		5.0	0.79	ug/L			12/28/24 20:57	1
Isopropyl ether	<0.38		1.0	0.38	ug/L			12/28/24 20:57	1
Methylene Chloride	<3.6		5.0	3.6	ug/L			12/28/24 20:57	1
Methyl tert-butyl ether	<0.43		1.0	0.43	ug/L			12/28/24 20:57	1
Naphthalene	0.713	J	1.0	0.44	ug/L			12/28/24 20:57	1
n-Butylbenzene	<0.33		1.0	0.33	ug/L			12/28/24 20:57	1
N-Propylbenzene	<0.32		1.0	0.32	ug/L			12/28/24 20:57	1
p-Isopropyltoluene	<0.29		1.0	0.29	ug/L			12/28/24 20:57	1
sec-Butylbenzene	<0.27		1.0	0.27	ug/L			12/28/24 20:57	1
Styrene	<0.31		1.0	0.31	ug/L			12/28/24 20:57	1
tert-Butylbenzene	<0.26		1.0	0.26	ug/L			12/28/24 20:57	1
1,1,1,2-Tetrachloroethane	<0.67		1.0	0.67	ug/L			12/28/24 20:57	1
1,1,2,2-Tetrachloroethane	<0.65		1.0	0.65	ug/L			12/28/24 20:57	1
Tetrachloroethene	<0.39		1.0	0.39	ug/L			12/28/24 20:57	1
Toluene	<0.21		0.50	0.21	ug/L			12/28/24 20:57	1
trans-1,2-Dichloroethene	<0.44		1.0	0.44	ug/L			12/28/24 20:57	1
trans-1,3-Dichloropropene	<0.63		1.0	0.63	ug/L			12/28/24 20:57	1
1,2,3-Trichlorobenzene	<0.35		1.0	0.35	ug/L			12/28/24 20:57	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			12/28/24 20:57	1
1,1,1-Trichloroethane	<0.45		1.0	0.45	ug/L			12/28/24 20:57	1
1,1,2-Trichloroethane	<0.73		1.0	0.73	ug/L			12/28/24 20:57	1
Trichloroethene	<0.15		0.50	0.15	ug/L			12/28/24 20:57	1
Trichlorofluoromethane	<0.44		1.0	0.44	ug/L			12/28/24 20:57	1
1,2,3-Trichloropropane	<1.5		2.0	1.5	ug/L			12/28/24 20:57	1
1,2,4-Trimethylbenzene	<0.30		1.0	0.30	ug/L			12/28/24 20:57	1
1,3,5-Trimethylbenzene	<0.29		1.0	0.29	ug/L			12/28/24 20:57	1
Vinyl chloride	<0.47		1.0	0.47	ug/L			12/28/24 20:57	1
Xylenes, Total	<0.30		1.0	0.30	ug/L			12/28/24 20:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		12/28/24 20:57	1
Dibromofluoromethane (Surr)	96		75 - 120		12/28/24 20:57	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		12/28/24 20:57	1
Toluene-d8 (Surr)	86		75 - 120		12/28/24 20:57	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800983/4

Matrix: Water

Analysis Batch: 800983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	59.7		ug/L		119	70 - 120
Bromobenzene	50.0	45.9		ug/L		92	70 - 122
Bromochloromethane	50.0	57.0		ug/L		114	65 - 122
Bromoform	50.0	42.2		ug/L		84	56 - 132
Carbon tetrachloride	50.0	60.2		ug/L		120	59 - 133
Chlorobenzene	50.0	51.2		ug/L		102	70 - 120
Chloroethane	50.0	47.6		ug/L		95	48 - 136
Chloroform	50.0	57.3		ug/L		115	70 - 120
2-Chlorotoluene	50.0	47.0		ug/L		94	70 - 125
4-Chlorotoluene	50.0	48.7		ug/L		97	68 - 124
cis-1,2-Dichloroethene	50.0	54.7		ug/L		109	70 - 125
cis-1,3-Dichloropropene	50.0	44.6		ug/L		89	64 - 127
Dibromochloromethane	50.0	45.8		ug/L		92	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	38.5		ug/L		77	56 - 123
1,2-Dibromoethane (EDB)	50.0	48.9		ug/L		98	70 - 125
Dibromomethane	50.0	56.9		ug/L		114	70 - 120
1,2-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 125
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 125
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 120
Dichlorobromomethane	50.0	57.0		ug/L		114	69 - 120
Dichlorodifluoromethane	50.0	41.7		ug/L		83	40 - 159
1,1-Dichloroethane	50.0	52.7		ug/L		105	70 - 125
1,2-Dichloroethane	50.0	55.6		ug/L		111	68 - 127
1,1-Dichloroethene	50.0	58.8		ug/L		118	67 - 122
1,2-Dichloropropane	50.0	52.1		ug/L		104	67 - 130
1,3-Dichloropropane	50.0	49.5		ug/L		99	62 - 136
2,2-Dichloropropane	50.0	51.9		ug/L		104	58 - 139
1,1-Dichloropropene	50.0	54.1		ug/L		108	70 - 121
Ethylbenzene	50.0	47.1		ug/L		94	70 - 123
Hexachlorobutadiene	50.0	47.5		ug/L		95	51 - 150
Bromomethane	50.0	71.7		ug/L		143	40 - 152
Isopropylbenzene	50.0	43.7		ug/L		87	70 - 126
Chloromethane	50.0	41.9		ug/L		84	56 - 152
Methylene Chloride	50.0	47.6		ug/L		95	69 - 125
Methyl tert-butyl ether	50.0	47.1		ug/L		94	55 - 123
Naphthalene	50.0	38.7		ug/L		77	53 - 144
n-Butylbenzene	50.0	51.9		ug/L		104	68 - 125
N-Propylbenzene	50.0	48.4		ug/L		97	69 - 127
p-Isopropyltoluene	50.0	45.7		ug/L		91	70 - 125
sec-Butylbenzene	50.0	49.4		ug/L		99	70 - 123
Styrene	50.0	47.2		ug/L		94	70 - 120
tert-Butylbenzene	50.0	47.9		ug/L		96	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	62 - 140
Tetrachloroethene	50.0	50.4		ug/L		101	70 - 128
Toluene	50.0	49.4		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	57.5		ug/L		115	70 - 125
trans-1,3-Dichloropropene	50.0	44.1		ug/L		88	62 - 128

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-800983/4

Matrix: Water

Analysis Batch: 800983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	44.3		ug/L		89	51 - 145
1,2,4-Trichlorobenzene	50.0	46.3		ug/L		93	57 - 137
1,1,1-Trichloroethane	50.0	59.5		ug/L		119	70 - 125
1,1,2-Trichloroethane	50.0	43.4		ug/L		87	71 - 130
Trichloroethene	50.0	60.3		ug/L		121	70 - 125
Trichlorofluoromethane	50.0	59.7		ug/L		119	55 - 128
1,2,3-Trichloropropane	50.0	42.1		ug/L		84	50 - 133
1,2,4-Trimethylbenzene	50.0	47.8		ug/L		96	70 - 123
1,3,5-Trimethylbenzene	50.0	48.4		ug/L		97	70 - 123
Vinyl chloride	50.0	44.9		ug/L		90	64 - 126
Xylenes, Total	100	102		ug/L		102	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	86		75 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-824450/1-A

Matrix: Water

Analysis Batch: 824614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoropentanoic acid (PFPeA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoroheptanoic acid (PFHpA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorooctanoic acid (PFOA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorononanoic acid (PFNA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorodecanoic acid (PFDA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoroundecanoic acid (PFUnA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorotridecanoic acid (PFTriA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorononanesulfonic acid (PFNS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: MB 320-824450/1-A

Matrix: Water

Analysis Batch: 824614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		12/27/24 04:02	12/27/24 14:36	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		12/27/24 04:02	12/27/24 14:36	1
NEtFOSA	<0.87		2.0	0.87	ng/L		12/27/24 04:02	12/27/24 14:36	1
NMeFOSA	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
NMeFOSAA	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 14:36	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 14:36	1
NMeFOSE	<1.4		4.0	1.4	ng/L		12/27/24 04:02	12/27/24 14:36	1
NEtFOSE	<0.85		2.0	0.85	ng/L		12/27/24 04:02	12/27/24 14:36	1
4:2 FTS	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
6:2 FTS	<1.3		5.0	1.3	ng/L		12/27/24 04:02	12/27/24 14:36	1
8:2 FTS	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
10:2 FTS	<0.67		2.0	0.67	ng/L		12/27/24 04:02	12/27/24 14:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		4.0	1.0	ng/L		12/27/24 04:02	12/27/24 14:36	1
F-53B Major	<0.50		2.0	0.50	ng/L		12/27/24 04:02	12/27/24 14:36	1
F-53B Minor	<0.69		2.0	0.69	ng/L		12/27/24 04:02	12/27/24 14:36	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C5 PFPeA	101		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 PFHxA	110		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C4 PFHpA	106		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C4 PFOA	107		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C5 PFNA	110		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 PFDA	110		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 PFUnA	105		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 PFDoA	97		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 PFTeDA	92		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 PFHxDA	112		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C3 PFBS	102		25 - 150	12/27/24 04:02	12/27/24 14:36	1
18O2 PFHxS	109		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C4 PFOS	107		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C8 FOSA	93		10 - 150	12/27/24 04:02	12/27/24 14:36	1
d3-NMeFOSAA	89		25 - 150	12/27/24 04:02	12/27/24 14:36	1
d5-NEtFOSAA	88		25 - 150	12/27/24 04:02	12/27/24 14:36	1
d-N-MeFOSA-M	81		10 - 150	12/27/24 04:02	12/27/24 14:36	1
d-N-EtFOSA-M	88		10 - 150	12/27/24 04:02	12/27/24 14:36	1
d7-N-MeFOSE-M	81		10 - 150	12/27/24 04:02	12/27/24 14:36	1
d9-N-EtFOSE-M	101		10 - 150	12/27/24 04:02	12/27/24 14:36	1
M2-4:2 FTS	124		25 - 150	12/27/24 04:02	12/27/24 14:36	1
M2-6:2 FTS	143		25 - 150	12/27/24 04:02	12/27/24 14:36	1
M2-8:2 FTS	134		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C3 HFPO-DA	101		25 - 150	12/27/24 04:02	12/27/24 14:36	1
13C2 10:2 FTS	118		25 - 150	12/27/24 04:02	12/27/24 14:36	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LLCS 320-824450/2-A

Matrix: Water

Analysis Batch: 824614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824450

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.29		ng/L		104	50 - 150
Perfluoropentanoic acid (PFPeA)	8.00	7.86		ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	8.00	6.80		ng/L		85	50 - 150
Perfluoroheptanoic acid (PFHpA)	8.00	7.76		ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	8.00	8.00		ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	8.00	8.18		ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	8.00	7.82		ng/L		98	50 - 150
Perfluoroundecanoic acid (PFUnA)	8.00	8.60		ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	8.00	8.22		ng/L		103	50 - 150
Perfluorotridecanoic acid (PFTriA)	8.00	7.94		ng/L		99	50 - 150
Perfluorotetradecanoic acid (PFTeA)	8.00	7.88		ng/L		99	50 - 150
Perfluoro-n-hexadecanoic acid (PFHxDA)	8.00	7.70		ng/L		96	50 - 150
Perfluoro-n-octadecanoic acid (PFODA)	8.00	7.95		ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	7.10	7.02		ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.65		ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	7.30	7.33		ng/L		100	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	7.63	7.91		ng/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	7.44	7.38		ng/L		99	50 - 150
Perfluorononanesulfonic acid (PFNS)	7.70	7.27		ng/L		94	50 - 150
Perfluorodecanesulfonic acid (PFDS)	7.71	7.20		ng/L		93	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	7.76	7.22		ng/L		93	50 - 150
Perfluorooctanesulfonamide (FOSA)	8.00	8.00		ng/L		100	50 - 150
NEtFOSA	8.00	7.01		ng/L		88	50 - 150
NMeFOSA	8.00	6.74		ng/L		84	50 - 150
NMeFOSAA	8.00	8.16		ng/L		102	50 - 150
NEtFOSAA	8.00	8.10		ng/L		101	50 - 150
NMeFOSE	8.00	8.07		ng/L		101	50 - 150
NEtFOSE	8.00	6.61		ng/L		83	50 - 150
4:2 FTS	7.50	7.65		ng/L		102	50 - 150
6:2 FTS	7.62	7.05		ng/L		93	50 - 150
8:2 FTS	7.68	7.95		ng/L		103	50 - 150
10:2 FTS	7.73	6.52		ng/L		84	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.67		ng/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	7.34		ng/L		92	50 - 150
F-53B Major	7.47	7.56		ng/L		101	50 - 150
F-53B Minor	7.55	7.82		ng/L		104	50 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	98		25 - 150
13C5 PFPeA	103		25 - 150
13C2 PFHxA	110		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	103		25 - 150
13C5 PFNA	107		25 - 150
13C2 PFDA	107		25 - 150
13C2 PFUnA	105		25 - 150
13C2 PFDoA	102		25 - 150
13C2 PFTeDA	98		25 - 150
13C2 PFHxDA	118		25 - 150
13C3 PFBS	98		25 - 150
18O2 PFHxS	107		25 - 150
13C4 PFOS	103		25 - 150
13C8 FOSA	89		10 - 150
d3-NMeFOSAA	91		25 - 150
d5-NEtFOSAA	87		25 - 150
d-N-MeFOSA-M	78		10 - 150
d-N-EtFOSA-M	83		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	102		10 - 150
M2-4:2 FTS	119		25 - 150
M2-6:2 FTS	131		25 - 150
M2-8:2 FTS	126		25 - 150
13C3 HFPO-DA	97		25 - 150
13C2 10:2 FTS	120		25 - 150

Lab Sample ID: LLCSD 320-824450/3-A

Matrix: Water

Analysis Batch: 824614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824450

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
Perfluorobutanoic acid (PFBA)	8.00	8.03		ng/L		100	50 - 150	3	30	
Perfluoropentanoic acid (PFPeA)	8.00	8.21		ng/L		103	50 - 150	4	30	
Perfluorohexanoic acid (PFHxA)	8.00	7.15		ng/L		89	50 - 150	5	30	
Perfluoroheptanoic acid (PFHpA)	8.00	7.73		ng/L		97	50 - 150	0.4	30	
Perfluorooctanoic acid (PFOA)	8.00	7.78		ng/L		97	50 - 150	3	30	
Perfluorononanoic acid (PFNA)	8.00	8.07		ng/L		101	50 - 150	1	30	
Perfluorodecanoic acid (PFDA)	8.00	7.61		ng/L		95	50 - 150	3	30	
Perfluoroundecanoic acid (PFUnA)	8.00	8.51		ng/L		106	50 - 150	1	30	
Perfluorododecanoic acid (PFDoA)	8.00	8.58		ng/L		107	50 - 150	4	30	
Perfluorotridecanoic acid (PFTriA)	8.00	8.67		ng/L		108	50 - 150	9	30	
Perfluorotetradecanoic acid (PFTeA)	8.00	7.95		ng/L		99	50 - 150	0.8	30	
Perfluoro-n-hexadecanoic acid (PFHxDA)	8.00	8.22		ng/L		103	50 - 150	7	30	
Perfluoro-n-octadecanoic acid (PFODA)	8.00	7.35		ng/L		92	50 - 150	8	30	
Perfluorobutanesulfonic acid (PFBS)	7.10	6.84		ng/L		96	50 - 150	3	30	

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LLCSD 320-824450/3-A

Matrix: Water

Analysis Batch: 824614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824450

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanesulfonic acid (PFPeS)	7.52	7.60		ng/L		101	50 - 150	0.8	30
Perfluorohexanesulfonic acid (PFHxS)	7.30	7.48		ng/L		103	50 - 150	2	30
Perfluoroheptanesulfonic acid (PFHpS)	7.63	7.88		ng/L		103	50 - 150	0.4	30
Perfluorooctanesulfonic acid (PFOS)	7.44	7.47		ng/L		100	50 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	7.70	7.37		ng/L		96	50 - 150	1	30
Perfluorodecanesulfonic acid (PFDS)	7.71	7.57		ng/L		98	50 - 150	5	30
Perfluorododecanesulfonic acid (PFDoS)	7.76	7.09		ng/L		91	50 - 150	2	30
Perfluorooctanesulfonamide (FOSA)	8.00	8.15		ng/L		102	50 - 150	2	30
NEtFOSA	8.00	6.41		ng/L		80	50 - 150	9	30
NMeFOSA	8.00	7.45		ng/L		93	50 - 150	10	30
NMeFOSAA	8.00	7.71		ng/L		96	50 - 150	6	30
NEtFOSAA	8.00	7.16		ng/L		89	50 - 150	12	30
NMeFOSE	8.00	8.18		ng/L		102	50 - 150	1	30
NEtFOSE	8.00	6.89		ng/L		86	50 - 150	4	30
4:2 FTS	7.50	7.38		ng/L		98	50 - 150	4	30
6:2 FTS	7.62	7.09		ng/L		93	50 - 150	0.5	30
8:2 FTS	7.68	7.84		ng/L		102	50 - 150	1	30
10:2 FTS	7.73	7.80		ng/L		101	50 - 150	18	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.57	7.52		ng/L		99	50 - 150	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	8.00	7.43		ng/L		93	50 - 150	1	30
F-53B Major	7.47	7.44		ng/L		100	50 - 150	2	30
F-53B Minor	7.55	7.52		ng/L		100	50 - 150	4	30

Isotope Dilution	LLCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	103		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFHxA	108		25 - 150
13C4 PFHpA	104		25 - 150
13C4 PFOA	107		25 - 150
13C5 PFNA	107		25 - 150
13C2 PFDA	108		25 - 150
13C2 PFUnA	105		25 - 150
13C2 PFDoA	96		25 - 150
13C2 PFTeDA	106		25 - 150
13C2 PFHxDA	111		25 - 150
13C3 PFBS	97		25 - 150
18O2 PFHxS	105		25 - 150
13C4 PFOS	102		25 - 150
13C8 FOSA	91		10 - 150
d3-NMeFOSAA	89		25 - 150
d5-NEtFOSAA	84		25 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LLCSD 320-824450/3-A

Matrix: Water

Analysis Batch: 824614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824450

Isotope Dilution	LLCSD LLCSD		Limits
	%Recovery	Qualifier	
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	88		10 - 150
d7-N-MeFOSE-M	86		10 - 150
d9-N-EtFOSE-M	103		10 - 150
M2-4:2 FTS	121		25 - 150
M2-6:2 FTS	134		25 - 150
M2-8:2 FTS	130		25 - 150
13C3 HFPO-DA	99		25 - 150
13C2 10:2 FTS	121		25 - 150

Lab Sample ID: MB 320-824867/1-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824867

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<0.18		0.49	0.18	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoropentanoic acid (PFPeA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorohexanoic acid (PFHxA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoroheptanoic acid (PFHpA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorooctanoic acid (PFOA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorononanoic acid (PFNA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorodecanoic acid (PFDA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoroundecanoic acid (PFUnA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorododecanoic acid (PFDoA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorotridecanoic acid (PFTriA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorotetradecanoic acid (PFTeA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.065		0.20	0.065	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorobutanesulfonic acid (PFBS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorohexanesulfonic acid (PFHxS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorononanesulfonic acid (PFNS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Perfluorooctanesulfonamide (FOSA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
NEtFOSA	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
NMeFOSA	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
NMeFOSAA	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
NEtFOSAA	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
NMeFOSE	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
NEtFOSE	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
4:2 FTS	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
6:2 FTS	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: MB 320-824867/1-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
10:2 FTS	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
F-53B Major	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1
F-53B Minor	<0.049		0.20	0.049	ug/Kg		12/30/24 11:54	01/01/25 20:21	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C5 PFPeA	95		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 PFHxA	95		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C4 PFHpA	97		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C4 PFOA	95		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C5 PFNA	93		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 PFDA	93		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 PFUnA	97		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 PFDoA	87		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 PFTeDA	67		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 PFHxDA	76		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C3 PFBS	94		25 - 150	12/30/24 11:54	01/01/25 20:21	1
18O2 PFHxS	93		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C4 PFOS	93		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C8 FOSA	87		10 - 150	12/30/24 11:54	01/01/25 20:21	1
d3-NMeFOSAA	97		25 - 150	12/30/24 11:54	01/01/25 20:21	1
d5-NEtFOSAA	105		25 - 150	12/30/24 11:54	01/01/25 20:21	1
d-N-MeFOSA-M	64		10 - 150	12/30/24 11:54	01/01/25 20:21	1
d-N-EtFOSA-M	62		10 - 150	12/30/24 11:54	01/01/25 20:21	1
d7-N-MeFOSE-M	76		10 - 150	12/30/24 11:54	01/01/25 20:21	1
d9-N-EtFOSE-M	73		10 - 150	12/30/24 11:54	01/01/25 20:21	1
M2-4:2 FTS	85		25 - 150	12/30/24 11:54	01/01/25 20:21	1
M2-6:2 FTS	84		25 - 150	12/30/24 11:54	01/01/25 20:21	1
M2-8:2 FTS	84		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C3 HFPO-DA	95		25 - 150	12/30/24 11:54	01/01/25 20:21	1
13C2 10:2 FTS	107		25 - 150	12/30/24 11:54	01/01/25 20:21	1

Lab Sample ID: LCS 320-824867/3-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	7.92	8.16		ug/Kg		103	60 - 135
Perfluoropentanoic acid (PFPeA)	7.92	8.13		ug/Kg		103	60 - 135
Perfluorohexanoic acid (PFHxA)	7.92	8.07		ug/Kg		102	60 - 135
Perfluoroheptanoic acid (PFHpA)	7.92	8.17		ug/Kg		103	60 - 135
Perfluorooctanoic acid (PFOA)	7.92	7.96		ug/Kg		100	60 - 135
Perfluorononanoic acid (PFNA)	7.92	7.86		ug/Kg		99	60 - 135
Perfluorodecanoic acid (PFDA)	7.92	8.02		ug/Kg		101	60 - 135

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LCS 320-824867/3-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	7.92	7.84		ug/Kg		99	60 - 135
Perfluorododecanoic acid (PFDoA)	7.92	8.64		ug/Kg		109	60 - 135
Perfluorotridecanoic acid (PFTriA)	7.92	6.80		ug/Kg		86	60 - 135
Perfluorotetradecanoic acid (PFTeA)	7.92	7.76		ug/Kg		98	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	7.92	8.37		ug/Kg		106	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	7.92	8.20		ug/Kg		104	60 - 135
Perfluorobutanesulfonic acid (PFBS)	7.03	6.98		ug/Kg		99	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	7.45	7.88		ug/Kg		106	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	7.22	7.18		ug/Kg		99	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	7.56	8.00		ug/Kg		106	60 - 135
Perfluorooctanesulfonic acid (PFOS)	7.37	7.69		ug/Kg		104	60 - 135
Perfluorononanesulfonic acid (PFNS)	7.62	7.47		ug/Kg		98	60 - 135
Perfluorodecanesulfonic acid (PFDS)	7.64	7.50		ug/Kg		98	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	7.68	6.14		ug/Kg		80	60 - 135
Perfluorooctanesulfonamide (FOSA)	7.92	8.35		ug/Kg		105	60 - 135
NEtFOSA	7.92	8.51		ug/Kg		107	60 - 135
NMeFOSA	7.92	7.51		ug/Kg		95	60 - 135
NMeFOSAA	7.92	7.90		ug/Kg		100	60 - 135
NEtFOSAA	7.92	8.71		ug/Kg		110	60 - 135
NMeFOSE	7.92	7.97		ug/Kg		101	60 - 135
NEtFOSE	7.92	7.76		ug/Kg		98	60 - 135
4:2 FTS	7.43	7.33		ug/Kg		99	60 - 135
6:2 FTS	7.54	7.81		ug/Kg		104	60 - 135
8:2 FTS	7.60	7.76		ug/Kg		102	60 - 135
10:2 FTS	7.65	7.32		ug/Kg		96	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.49	7.78		ug/Kg		104	60 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.92	8.24		ug/Kg		104	60 - 135
F-53B Major	7.40	7.39		ug/Kg		100	60 - 135
F-53B Minor	7.48	6.68		ug/Kg		89	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	95		25 - 150
13C5 PFPeA	95		25 - 150
13C2 PFHxA	95		25 - 150
13C4 PFHpA	95		25 - 150
13C4 PFOA	95		25 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LCS 320-824867/3-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824867

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C5 PFNA	94		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	96		25 - 150
13C2 PFDoA	86		25 - 150
13C2 PFTeDA	72		25 - 150
13C2 PFHxDA	75		25 - 150
13C3 PFBS	93		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	90		10 - 150
d3-NMeFOSAA	99		25 - 150
d5-NEtFOSAA	97		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	67		10 - 150
d7-N-MeFOSE-M	76		10 - 150
d9-N-EtFOSE-M	76		10 - 150
M2-4:2 FTS	85		25 - 150
M2-6:2 FTS	83		25 - 150
M2-8:2 FTS	83		25 - 150
13C3 HFPO-DA	94		25 - 150
13C2 10:2 FTS	106		25 - 150

Lab Sample ID: LCSD 320-824867/4-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	7.98	8.58		ug/Kg		107	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)	7.98	7.76		ug/Kg		97	60 - 135	5	30
Perfluorohexanoic acid (PFHxA)	7.98	7.94		ug/Kg		99	60 - 135	2	30
Perfluoroheptanoic acid (PFHpA)	7.98	8.10		ug/Kg		101	60 - 135	1	30
Perfluorooctanoic acid (PFOA)	7.98	7.92		ug/Kg		99	60 - 135	1	30
Perfluorononanoic acid (PFNA)	7.98	7.99		ug/Kg		100	60 - 135	2	30
Perfluorodecanoic acid (PFDA)	7.98	8.10		ug/Kg		101	60 - 135	1	30
Perfluoroundecanoic acid (PFUnA)	7.98	8.48		ug/Kg		106	60 - 135	8	30
Perfluorododecanoic acid (PFDoA)	7.98	9.09		ug/Kg		114	60 - 135	5	30
Perfluorotridecanoic acid (PFTriA)	7.98	7.55		ug/Kg		95	60 - 135	10	30
Perfluorotetradecanoic acid (PFTeA)	7.98	8.66		ug/Kg		108	60 - 135	11	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	7.98	8.36		ug/Kg		105	60 - 135	0	30
Perfluoro-n-octadecanoic acid (PFODA)	7.98	8.22		ug/Kg		103	60 - 135	0	30
Perfluorobutanesulfonic acid (PFBS)	7.09	7.26		ug/Kg		102	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)	7.50	7.73		ug/Kg		103	60 - 135	2	30

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LCSD 320-824867/4-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	7.28	7.48		ug/Kg		103	60 - 135	4	30
Perfluoroheptanesulfonic acid (PFHpS)	7.62	8.31		ug/Kg		109	60 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)	7.43	7.84		ug/Kg		106	60 - 135	2	30
Perfluorononanesulfonic acid (PFNS)	7.68	7.59		ug/Kg		99	60 - 135	2	30
Perfluorodecanesulfonic acid (PFDS)	7.70	8.29		ug/Kg		108	60 - 135	10	30
Perfluorododecanesulfonic acid (PFDoS)	7.74	6.82		ug/Kg		88	60 - 135	11	30
Perfluorooctanesulfonamide (FOSA)	7.98	8.41		ug/Kg		105	60 - 135	1	30
NEtFOSA	7.98	8.10		ug/Kg		101	60 - 135	5	30
NMeFOSA	7.98	8.01		ug/Kg		100	60 - 135	6	30
NMeFOSAA	7.98	8.18		ug/Kg		102	60 - 135	3	30
NEtFOSAA	7.98	8.62		ug/Kg		108	60 - 135	1	30
NMeFOSE	7.98	8.16		ug/Kg		102	60 - 135	2	30
NEtFOSE	7.98	8.12		ug/Kg		102	60 - 135	4	30
4:2 FTS	7.49	7.93		ug/Kg		106	60 - 135	8	30
6:2 FTS	7.60	7.96		ug/Kg		105	60 - 135	2	30
8:2 FTS	7.66	7.64		ug/Kg		100	60 - 135	2	30
10:2 FTS	7.71	7.79		ug/Kg		101	60 - 135	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.55	7.91		ug/Kg		105	60 - 135	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	7.98	8.27		ug/Kg		104	60 - 135	0	30
F-53B Major	7.46	7.72		ug/Kg		104	60 - 135	4	30
F-53B Minor	7.54	7.53		ug/Kg		100	60 - 135	12	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	99		25 - 150
13C5 PFPeA	103		25 - 150
13C2 PFHxA	104		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	99		25 - 150
13C2 PFDA	101		25 - 150
13C2 PFUnA	101		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	76		25 - 150
13C2 PFHxDA	85		25 - 150
13C3 PFBS	101		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	96		10 - 150
d3-NMeFOSAA	105		25 - 150
d5-NEtFOSAA	110		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	73		10 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LCSD 320-824867/4-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824867

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
d7-N-MeFOSE-M	90		10 - 150
d9-N-EtFOSE-M	89		10 - 150
M2-4:2 FTS	87		25 - 150
M2-6:2 FTS	87		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	100		25 - 150
13C2 10:2 FTS	113		25 - 150

Lab Sample ID: LLCS 320-824867/2-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.400	0.411	J	ug/Kg		103	50 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.414		ug/Kg		103	50 - 150
Perfluorohexanoic acid (PFHxA)	0.400	0.397		ug/Kg		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.400	0.396		ug/Kg		99	50 - 150
Perfluorooctanoic acid (PFOA)	0.400	0.425		ug/Kg		106	50 - 150
Perfluorononanoic acid (PFNA)	0.400	0.401		ug/Kg		100	50 - 150
Perfluorodecanoic acid (PFDA)	0.400	0.403		ug/Kg		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.400	0.393		ug/Kg		98	50 - 150
Perfluorododecanoic acid (PFDoA)	0.400	0.436		ug/Kg		109	50 - 150
Perfluorotridecanoic acid (PFTriA)	0.400	0.373		ug/Kg		93	50 - 150
Perfluorotetradecanoic acid (PFTeA)	0.400	0.408		ug/Kg		102	50 - 150
Perfluoro-n-hexadecanoic acid (PFHxDA)	0.400	0.406		ug/Kg		101	50 - 150
Perfluoro-n-octadecanoic acid (PFODA)	0.400	0.410		ug/Kg		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.355	0.366		ug/Kg		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.376	0.380		ug/Kg		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.365	0.383		ug/Kg		105	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.382	0.400		ug/Kg		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.372	0.403		ug/Kg		108	50 - 150
Perfluorononanesulfonic acid (PFNS)	0.385	0.370		ug/Kg		96	50 - 150
Perfluorodecanesulfonic acid (PFDS)	0.386	0.374		ug/Kg		97	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.366		ug/Kg		94	50 - 150
Perfluorooctanesulfonamide (FOSA)	0.400	0.437		ug/Kg		109	50 - 150
NEtFOSA	0.400	0.418		ug/Kg		104	50 - 150
NMeFOSA	0.400	0.378		ug/Kg		94	50 - 150
NMeFOSAA	0.400	0.402		ug/Kg		100	50 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LLCS 320-824867/2-A

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSAA	0.400	0.378		ug/Kg		95	50 - 150
NMeFOSE	0.400	0.391		ug/Kg		98	50 - 150
NEtFOSE	0.400	0.395		ug/Kg		99	50 - 150
4:2 FTS	0.375	0.371		ug/Kg		99	50 - 150
6:2 FTS	0.381	0.376		ug/Kg		99	50 - 150
8:2 FTS	0.384	0.375		ug/Kg		98	50 - 150
10:2 FTS	0.386	0.334		ug/Kg		86	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.378	0.391		ug/Kg		103	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.400	0.399		ug/Kg		100	50 - 150
F-53B Major	0.374	0.373		ug/Kg		100	50 - 150
F-53B Minor	0.378	0.350		ug/Kg		93	50 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	99		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	99		25 - 150
13C4 PFHpA	98		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	97		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	89		25 - 150
13C2 PFTeDA	75		25 - 150
13C2 PFHxDA	85		25 - 150
13C3 PFBS	97		25 - 150
18O2 PFHxS	96		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	89		10 - 150
d3-NMeFOSAA	100		25 - 150
d5-NEtFOSAA	104		25 - 150
d-N-MeFOSA-M	68		10 - 150
d-N-EtFOSA-M	69		10 - 150
d7-N-MeFOSE-M	85		10 - 150
d9-N-EtFOSE-M	86		10 - 150
M2-4:2 FTS	86		25 - 150
M2-6:2 FTS	89		25 - 150
M2-8:2 FTS	85		25 - 150
13C3 HFPO-DA	95		25 - 150
13C2 10:2 FTS	119		25 - 150

Lab Sample ID: 500-261951-1 MS

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: GETSWC-03-121824

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	1.9		24.2	27.0		ug/Kg	✱	103	70 - 130
Perfluoropentanoic acid (PFPeA)	9.7		24.2	36.0		ug/Kg	✱	108	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: 500-261951-1 MS

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: GETSWC-03-121824

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	7.5		24.2	31.8		ug/Kg	✱	100	70 - 130
Perfluoroheptanoic acid (PFHpA)	3.1		24.2	27.6		ug/Kg	✱	102	70 - 130
Perfluorooctanoic acid (PFOA)	15		24.2	43.0		ug/Kg	✱	116	70 - 130
Perfluorononanoic acid (PFNA)	1.2		24.2	24.8		ug/Kg	✱	97	70 - 130
Perfluorodecanoic acid (PFDA)	<0.15		24.2	24.1		ug/Kg	✱	100	70 - 130
Perfluoroundecanoic acid (PFUnA)	<0.15		24.2	25.5		ug/Kg	✱	105	70 - 130
Perfluorododecanoic acid (PFDoA)	<0.15		24.2	26.9		ug/Kg	✱	111	70 - 130
Perfluorotridecanoic acid (PFTriA)	<0.15	F1	24.2	16.5	F1	ug/Kg	✱	68	70 - 130
Perfluorotetradecanoic acid (PFTeA)	<0.15		24.2	25.7		ug/Kg	✱	106	70 - 130
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.15		24.2	25.9		ug/Kg	✱	107	70 - 130
Perfluoro-n-octadecanoic acid (PFODA)	<0.20	F1	24.2	8.78	F1	ug/Kg	✱	36	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.28	J	21.5	21.7		ug/Kg	✱	100	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<0.15		22.8	23.8		ug/Kg	✱	105	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<0.15		22.1	23.5		ug/Kg	✱	106	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		23.1	24.6		ug/Kg	✱	107	70 - 130
Perfluorooctanesulfonic acid (PFOS)	1.2	I	22.5	25.6		ug/Kg	✱	108	70 - 130
Perfluorononanesulfonic acid (PFNS)	<0.15		23.3	23.6		ug/Kg	✱	101	70 - 130
Perfluorodecanesulfonic acid (PFDS)	<0.15		23.3	22.1		ug/Kg	✱	95	70 - 130
Perfluorododecanesulfonic acid (PFDoS)	<0.15	F1	23.5	14.6	F1	ug/Kg	✱	62	70 - 130
Perfluorooctanesulfonamide (FOSA)	<0.15		24.2	27.0		ug/Kg	✱	111	70 - 130
NEtFOSA	<0.15		24.2	24.9		ug/Kg	✱	103	70 - 130
NMeFOSA	<0.15		24.2	24.5		ug/Kg	✱	101	70 - 130
NMeFOSAA	<0.15		24.2	24.5		ug/Kg	✱	101	70 - 130
NEtFOSAA	<0.15		24.2	26.6		ug/Kg	✱	110	70 - 130
NMeFOSE	<0.15		24.2	25.1		ug/Kg	✱	104	70 - 130
NEtFOSE	<0.15		24.2	24.3		ug/Kg	✱	101	70 - 130
4:2 FTS	<0.15		22.7	22.4		ug/Kg	✱	99	70 - 130
6:2 FTS	1.8		23.0	24.8		ug/Kg	✱	100	70 - 130
8:2 FTS	<0.15		23.2	22.1		ug/Kg	✱	95	70 - 130
10:2 FTS	<0.15		23.4	22.8		ug/Kg	✱	98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.15		22.9	23.2		ug/Kg	✱	101	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.15		24.2	25.1		ug/Kg	✱	104	70 - 130
F-53B Major	<0.15		22.6	22.8		ug/Kg	✱	101	70 - 130
F-53B Minor	<0.15		22.9	19.3		ug/Kg	✱	84	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	71		25 - 150
13C5 PFPeA	71		25 - 150
13C2 PFHxA	76		25 - 150
13C4 PFHpA	77		25 - 150
13C4 PFOA	74		25 - 150
13C5 PFNA	78		25 - 150
13C2 PFDA	79		25 - 150
13C2 PFUnA	78		25 - 150
13C2 PFDoA	63		25 - 150
13C2 PFTeDA	38		25 - 150
13C2 PFHxDA	53		25 - 150
13C3 PFBS	73		25 - 150
18O2 PFHxS	74		25 - 150
13C4 PFOS	72		25 - 150
13C8 FOSA	53		10 - 150
d3-NMeFOSAA	84		25 - 150
d5-NEtFOSAA	88		25 - 150
d-N-MeFOSA-M	44		10 - 150
d-N-EtFOSA-M	46		10 - 150
d7-N-MeFOSE-M	46		10 - 150
d9-N-EtFOSE-M	48		10 - 150
M2-4:2 FTS	89		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	109		25 - 150
13C3 HFPO-DA	71		25 - 150
13C2 10:2 FTS	102		25 - 150

Lab Sample ID: 500-261951-1 MSD

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: GETSWC-03-121824

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	1.9		24.3	26.9		ug/Kg	⊛	103	70 - 130	0	30
Perfluoropentanoic acid (PFPeA)	9.7		24.3	34.1		ug/Kg	⊛	100	70 - 130	5	30
Perfluorohexanoic acid (PFHxA)	7.5		24.3	31.0		ug/Kg	⊛	97	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	3.1		24.3	28.2		ug/Kg	⊛	103	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	15		24.3	42.9		ug/Kg	⊛	115	70 - 130	0	30
Perfluorononanoic acid (PFNA)	1.2		24.3	25.4		ug/Kg	⊛	100	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<0.15		24.3	24.8		ug/Kg	⊛	102	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<0.15		24.3	25.1		ug/Kg	⊛	103	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<0.15		24.3	26.2		ug/Kg	⊛	108	70 - 130	3	30
Perfluorotridecanoic acid (PFTriA)	<0.15	F1	24.3	18.3		ug/Kg	⊛	75	70 - 130	10	30
Perfluorotetradecanoic acid (PFTeA)	<0.15		24.3	25.7		ug/Kg	⊛	106	70 - 130	0	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.15		24.3	24.6		ug/Kg	⊛	101	70 - 130	5	30
Perfluoro-n-octadecanoic acid (PFODA)	<0.20	F1	24.3	9.03	F1	ug/Kg	⊛	37	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	0.28	J	21.6	20.6		ug/Kg	⊛	94	70 - 130	6	30

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: 500-261951-1 MSD

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: GETSWC-03-121824

Prep Type: Total/NA

Prep Batch: 824867

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanesulfonic acid (PFPeS)	<0.15		22.9	23.1		ug/Kg	✱	101	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	<0.15		22.2	23.0		ug/Kg	✱	104	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<0.15		23.2	25.7		ug/Kg	✱	111	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	1.2	I	22.6	25.4		ug/Kg	✱	107	70 - 130	1	30
Perfluorononanesulfonic acid (PFNS)	<0.15		23.4	22.7		ug/Kg	✱	97	70 - 130	4	30
Perfluorodecanesulfonic acid (PFDS)	<0.15		23.4	21.2		ug/Kg	✱	90	70 - 130	4	30
Perfluorododecanesulfonic acid (PFDoS)	<0.15	F1	23.6	16.9		ug/Kg	✱	72	70 - 130	15	30
Perfluorooctanesulfonamide (FOSA)	<0.15		24.3	26.5		ug/Kg	✱	109	70 - 130	2	30
NEtFOSA	<0.15		24.3	24.7		ug/Kg	✱	102	70 - 130	1	30
NMeFOSA	<0.15		24.3	23.7		ug/Kg	✱	97	70 - 130	3	30
NMeFOSAA	<0.15		24.3	24.5		ug/Kg	✱	101	70 - 130	0	30
NEtFOSAA	<0.15		24.3	27.7		ug/Kg	✱	114	70 - 130	4	30
NMeFOSE	<0.15		24.3	25.5		ug/Kg	✱	105	70 - 130	1	30
NEtFOSE	<0.15		24.3	22.1		ug/Kg	✱	91	70 - 130	10	30
4:2 FTS	<0.15		22.8	22.7		ug/Kg	✱	100	70 - 130	2	30
6:2 FTS	1.8		23.1	24.4		ug/Kg	✱	98	70 - 130	2	30
8:2 FTS	<0.15		23.3	23.3		ug/Kg	✱	100	70 - 130	5	30
10:2 FTS	<0.15		23.5	22.7		ug/Kg	✱	96	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.15		23.0	23.9		ug/Kg	✱	104	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.15		24.3	24.9		ug/Kg	✱	102	70 - 130	1	30
F-53B Major	<0.15		22.7	22.9		ug/Kg	✱	101	70 - 130	1	30
F-53B Minor	<0.15		22.9	20.0		ug/Kg	✱	87	70 - 130	4	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	MSD Limits
13C4 PFBA	75		25 - 150
13C5 PFPeA	77		25 - 150
13C2 PFHxA	81		25 - 150
13C4 PFHpA	78		25 - 150
13C4 PFOA	78		25 - 150
13C5 PFNA	78		25 - 150
13C2 PFDA	74		25 - 150
13C2 PFUnA	69		25 - 150
13C2 PFDoA	57		25 - 150
13C2 PFTeDA	41		25 - 150
13C2 PFHxDA	57		25 - 150
13C3 PFBS	81		25 - 150
18O2 PFHxS	79		25 - 150
13C4 PFOS	75		25 - 150
13C8 FOSA	43		10 - 150
d3-NMeFOSAA	86		25 - 150
d5-NEtFOSAA	84		25 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: 500-261951-1 MSD

Matrix: Solid

Analysis Batch: 825254

Client Sample ID: GETSWC-03-121824

Prep Type: Total/NA

Prep Batch: 824867

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
d-N-MeFOSA-M	47		10 - 150
d-N-EtFOSA-M	49		10 - 150
d7-N-MeFOSE-M	47		10 - 150
d9-N-EtFOSE-M	51		10 - 150
M2-4:2 FTS	90		25 - 150
M2-6:2 FTS	98		25 - 150
M2-8:2 FTS	107		25 - 150
13C3 HFPO-DA	74		25 - 150
13C2 10:2 FTS	104		25 - 150

Lab Sample ID: MB 320-824897/1-A

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824897

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<0.18		0.50	0.18	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoropentanoic acid (PFPeA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorohexanoic acid (PFHxA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoroheptanoic acid (PFHpA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorooctanoic acid (PFOA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorononanoic acid (PFNA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorodecanoic acid (PFDA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoroundecanoic acid (PFUnA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorododecanoic acid (PFDoA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorotridecanoic acid (PFTriA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorotetradecanoic acid (PFTeA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.066		0.20	0.066	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorobutanesulfonic acid (PFBS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoropentanesulfonic acid (PFPeS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorohexanesulfonic acid (PFHxS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorooctanesulfonic acid (PFOS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorononanesulfonic acid (PFNS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Perfluorooctanesulfonamide (FOSA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
NEtFOSA	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
NMeFOSA	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
NMeFOSAA	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
NEtFOSAA	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
NMeFOSE	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
NEtFOSE	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
4:2 FTS	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
6:2 FTS	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: MB 320-824897/1-A

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
10:2 FTS	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
F-53B Major	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1
F-53B Minor	<0.050		0.20	0.050	ug/Kg		12/30/24 12:59	01/03/25 13:59	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	87		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C5 PFPeA	84		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 PFHxA	86		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C4 PFHpA	85		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C4 PFOA	84		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C5 PFNA	83		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 PFDA	80		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 PFUnA	79		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 PFDoA	65		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 PFTeDA	67		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 PFHxDA	72		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C3 PFBS	80		25 - 150	12/30/24 12:59	01/03/25 13:59	1
18O2 PFHxS	84		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C4 PFOS	78		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C8 FOSA	71		10 - 150	12/30/24 12:59	01/03/25 13:59	1
d3-NMeFOSAA	76		25 - 150	12/30/24 12:59	01/03/25 13:59	1
d5-NEtFOSAA	75		25 - 150	12/30/24 12:59	01/03/25 13:59	1
d-N-MeFOSA-M	58		10 - 150	12/30/24 12:59	01/03/25 13:59	1
d-N-EtFOSA-M	58		10 - 150	12/30/24 12:59	01/03/25 13:59	1
d7-N-MeFOSE-M	64		10 - 150	12/30/24 12:59	01/03/25 13:59	1
d9-N-EtFOSE-M	66		10 - 150	12/30/24 12:59	01/03/25 13:59	1
M2-4:2 FTS	73		25 - 150	12/30/24 12:59	01/03/25 13:59	1
M2-6:2 FTS	79		25 - 150	12/30/24 12:59	01/03/25 13:59	1
M2-8:2 FTS	69		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C3 HFPO-DA	85		25 - 150	12/30/24 12:59	01/03/25 13:59	1
13C2 10:2 FTS	63		25 - 150	12/30/24 12:59	01/03/25 13:59	1

Lab Sample ID: LLCS 320-824897/2-A

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824897

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.400	0.412	J	ug/Kg		103	50 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.402		ug/Kg		101	50 - 150
Perfluorohexanoic acid (PFHxA)	0.400	0.390		ug/Kg		98	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.400	0.391		ug/Kg		98	50 - 150
Perfluorooctanoic acid (PFOA)	0.400	0.404		ug/Kg		101	50 - 150
Perfluorononanoic acid (PFNA)	0.400	0.395		ug/Kg		99	50 - 150
Perfluorodecanoic acid (PFDA)	0.400	0.384		ug/Kg		96	50 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LLCS 320-824897/2-A

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824897

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	0.400	0.398		ug/Kg		99	50 - 150
Perfluorododecanoic acid (PFDoA)	0.400	0.447		ug/Kg		112	50 - 150
Perfluorotridecanoic acid (PFTriA)	0.400	0.346		ug/Kg		87	50 - 150
Perfluorotetradecanoic acid (PFTeA)	0.400	0.443		ug/Kg		111	50 - 150
Perfluoro-n-hexadecanoic acid (PFHxDA)	0.400	0.404		ug/Kg		101	50 - 150
Perfluoro-n-octadecanoic acid (PFODA)	0.400	0.326		ug/Kg		82	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.355	0.364		ug/Kg		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.376	0.371		ug/Kg		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.365	0.353		ug/Kg		97	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.382	0.423		ug/Kg		111	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.372	0.402		ug/Kg		108	50 - 150
Perfluorononanesulfonic acid (PFNS)	0.385	0.379		ug/Kg		98	50 - 150
Perfluorodecanesulfonic acid (PFDS)	0.386	0.349		ug/Kg		91	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.295		ug/Kg		76	50 - 150
Perfluorooctanesulfonamide (FOSA)	0.400	0.447		ug/Kg		112	50 - 150
NEtFOSA	0.400	0.397		ug/Kg		99	50 - 150
NMeFOSA	0.400	0.344		ug/Kg		86	50 - 150
NMeFOSAA	0.400	0.423		ug/Kg		106	50 - 150
NEtFOSAA	0.400	0.430		ug/Kg		107	50 - 150
NMeFOSE	0.400	0.384		ug/Kg		96	50 - 150
NEtFOSE	0.400	0.370		ug/Kg		93	50 - 150
4:2 FTS	0.375	0.389		ug/Kg		104	50 - 150
6:2 FTS	0.381	0.388		ug/Kg		102	50 - 150
8:2 FTS	0.384	0.366		ug/Kg		95	50 - 150
10:2 FTS	0.386	0.391		ug/Kg		101	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.378	0.465		ug/Kg		123	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.400	0.394		ug/Kg		98	50 - 150
F-53B Major	0.374	0.382		ug/Kg		102	50 - 150
F-53B Minor	0.378	0.325		ug/Kg		86	50 - 150
		LLCS	LLCS				
Isotope Dilution	%Recovery	Qualifier	Limits				
13C4 PFBA	95		25 - 150				
13C5 PFPeA	95		25 - 150				
13C2 PFHxA	96		25 - 150				
13C4 PFHpA	97		25 - 150				
13C4 PFOA	92		25 - 150				

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: LLCS 320-824897/2-A

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824897

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C5 PFNA	88		25 - 150
13C2 PFDA	85		25 - 150
13C2 PFUnA	79		25 - 150
13C2 PFDoA	67		25 - 150
13C2 PFTeDA	62		25 - 150
13C2 PFHxDA	65		25 - 150
13C3 PFBS	88		25 - 150
18O2 PFHxS	86		25 - 150
13C4 PFOS	78		25 - 150
13C8 FOSA	71		10 - 150
d3-NMeFOSAA	78		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	61		10 - 150
d-N-EtFOSA-M	56		10 - 150
d7-N-MeFOSE-M	70		10 - 150
d9-N-EtFOSE-M	68		10 - 150
M2-4:2 FTS	84		25 - 150
M2-6:2 FTS	87		25 - 150
M2-8:2 FTS	73		25 - 150
13C3 HFPO-DA	95		25 - 150
13C2 10:2 FTS	56		25 - 150

Lab Sample ID: 500-261951-21 MS

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 824897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	<0.20		0.429	0.486	J	ug/Kg	⊛	113	70 - 130
Perfluoropentanoic acid (PFPeA)	0.14	J	0.429	0.586		ug/Kg	⊛	103	70 - 130
Perfluorohexanoic acid (PFHxA)	0.094	J	0.429	0.500		ug/Kg	⊛	95	70 - 130
Perfluoroheptanoic acid (PFHpA)	0.16	J	0.429	0.575		ug/Kg	⊛	96	70 - 130
Perfluorooctanoic acid (PFOA)	0.22		0.429	0.654		ug/Kg	⊛	102	70 - 130
Perfluorononanoic acid (PFNA)	<0.054		0.429	0.445		ug/Kg	⊛	104	70 - 130
Perfluorodecanoic acid (PFDA)	<0.054		0.429	0.426		ug/Kg	⊛	99	70 - 130
Perfluoroundecanoic acid (PFUnA)	<0.054		0.429	0.427		ug/Kg	⊛	100	70 - 130
Perfluorododecanoic acid (PFDoA)	<0.054		0.429	0.463		ug/Kg	⊛	108	70 - 130
Perfluorotridecanoic acid (PFTriA)	<0.054		0.429	0.391		ug/Kg	⊛	91	70 - 130
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.429	0.414		ug/Kg	⊛	97	70 - 130
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.054		0.429	0.424		ug/Kg	⊛	99	70 - 130
Perfluoro-n-octadecanoic acid (PFODA)	<0.071		0.429	0.477		ug/Kg	⊛	111	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.081	J	0.381	0.397		ug/Kg	⊛	83	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<0.054		0.403	0.413		ug/Kg	⊛	103	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: 500-261951-21 MS

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 824897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	<0.054		0.391	0.403		ug/Kg	⊛	103	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<0.054		0.409	0.463		ug/Kg	⊛	113	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.096	J	0.399	0.518		ug/Kg	⊛	106	70 - 130
Perfluorononanesulfonic acid (PFNS)	<0.054		0.412	0.404		ug/Kg	⊛	98	70 - 130
Perfluorodecanesulfonic acid (PFDS)	<0.054		0.413	0.484		ug/Kg	⊛	117	70 - 130
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.416	0.522		ug/Kg	⊛	126	70 - 130
Perfluorooctanesulfonamide (FOSA)	0.060	J	0.429	0.455		ug/Kg	⊛	92	70 - 130
NEtFOSA	<0.054		0.429	0.394		ug/Kg	⊛	92	70 - 130
NMeFOSA	<0.054		0.429	0.399		ug/Kg	⊛	93	70 - 130
NMeFOSAA	<0.054		0.429	0.404		ug/Kg	⊛	94	70 - 130
NEtFOSAA	<0.054		0.429	0.453		ug/Kg	⊛	106	70 - 130
NMeFOSE	<0.054		0.429	0.439		ug/Kg	⊛	102	70 - 130
NEtFOSE	<0.054		0.429	0.364		ug/Kg	⊛	85	70 - 130
4:2 FTS	<0.054		0.402	0.371		ug/Kg	⊛	92	70 - 130
6:2 FTS	<0.054		0.408	0.391		ug/Kg	⊛	96	70 - 130
8:2 FTS	<0.054		0.411	0.436		ug/Kg	⊛	106	70 - 130
10:2 FTS	<0.054		0.414	0.413		ug/Kg	⊛	100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.054	F1	0.405	0.538	F1	ug/Kg	⊛	133	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.054		0.429	0.417		ug/Kg	⊛	97	70 - 130
F-53B Major	<0.054		0.400	0.423		ug/Kg	⊛	106	70 - 130
F-53B Minor	<0.054		0.405	0.471		ug/Kg	⊛	116	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	74		25 - 150
13C5 PFPeA	70		25 - 150
13C2 PFHxA	80		25 - 150
13C4 PFHpA	73		25 - 150
13C4 PFOA	65		25 - 150
13C5 PFNA	61		25 - 150
13C2 PFDA	61		25 - 150
13C2 PFUnA	68		25 - 150
13C2 PFDoA	69		25 - 150
13C2 PFTeDA	62		25 - 150
13C2 PFHxDA	63		25 - 150
13C3 PFBS	73		25 - 150
18O2 PFHxS	67		25 - 150
13C4 PFOS	53		25 - 150
13C8 FOSA	54		10 - 150
d3-NMeFOSAA	62		25 - 150
d5-NEtFOSAA	64		25 - 150
d-N-MeFOSA-M	56		10 - 150
d-N-EtFOSA-M	60		10 - 150

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: 500-261951-21 MS

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 824897

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d7-N-MeFOSE-M	64		10 - 150
d9-N-EtFOSE-M	64		10 - 150
M2-4:2 FTS	81		25 - 150
M2-6:2 FTS	63		25 - 150
M2-8:2 FTS	51		25 - 150
13C3 HFPO-DA	71		25 - 150
13C2 10:2 FTS	59		25 - 150

Lab Sample ID: 500-261951-21 MSD

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 824897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	<0.20		0.425	0.465	J	ug/Kg	✱	109	70 - 130	4	30
Perfluoropentanoic acid (PFPeA)	0.14	J	0.425	0.566		ug/Kg	✱	99	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	0.094	J	0.425	0.482		ug/Kg	✱	91	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	0.16	J	0.425	0.578		ug/Kg	✱	97	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	0.22		0.425	0.653		ug/Kg	✱	103	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<0.054		0.425	0.435		ug/Kg	✱	102	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<0.054		0.425	0.412		ug/Kg	✱	97	70 - 130	4	30
Perfluoroundecanoic acid (PFUnA)	<0.054		0.425	0.423		ug/Kg	✱	99	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<0.054		0.425	0.466		ug/Kg	✱	110	70 - 130	1	30
Perfluorotridecanoic acid (PFTriA)	<0.054		0.425	0.408		ug/Kg	✱	96	70 - 130	4	30
Perfluorotetradecanoic acid (PFTeA)	<0.054		0.425	0.448		ug/Kg	✱	105	70 - 130	8	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.054		0.425	0.486		ug/Kg	✱	114	70 - 130	14	30
Perfluoro-n-octadecanoic acid (PFODA)	<0.071		0.425	0.497		ug/Kg	✱	117	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	0.081	J	0.378	0.425		ug/Kg	✱	91	70 - 130	7	30
Perfluoropentanesulfonic acid (PFPeS)	<0.054		0.400	0.390		ug/Kg	✱	98	70 - 130	6	30
Perfluorohexanesulfonic acid (PFHxS)	<0.054		0.388	0.395		ug/Kg	✱	102	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<0.054		0.406	0.499		ug/Kg	✱	123	70 - 130	7	30
Perfluorooctanesulfonic acid (PFOS)	0.096	J	0.395	0.456		ug/Kg	✱	91	70 - 130	13	30
Perfluorononanesulfonic acid (PFNS)	<0.054		0.409	0.407		ug/Kg	✱	100	70 - 130	1	30
Perfluorodecanesulfonic acid (PFDS)	<0.054		0.410	0.510		ug/Kg	✱	124	70 - 130	5	30
Perfluorododecanesulfonic acid (PFDoS)	<0.054		0.412	0.503		ug/Kg	✱	122	70 - 130	4	30
Perfluorooctanesulfonamide (FOSA)	0.060	J	0.425	0.467		ug/Kg	✱	96	70 - 130	2	30
NEtFOSA	<0.054		0.425	0.438		ug/Kg	✱	103	70 - 130	11	30
NMeFOSA	<0.054		0.425	0.388		ug/Kg	✱	91	70 - 130	3	30
NMeFOSAA	<0.054		0.425	0.410		ug/Kg	✱	96	70 - 130	1	30

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

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

Lab Sample ID: 500-261951-21 MSD

Matrix: Solid

Analysis Batch: 825616

Client Sample ID: GETSWC-23-121824

Prep Type: Total/NA

Prep Batch: 824897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA	<0.054		0.425	0.434		ug/Kg	⊛	102	70 - 130	4	30
NMeFOSE	<0.054		0.425	0.404		ug/Kg	⊛	95	70 - 130	8	30
NEtFOSE	<0.054		0.425	0.412		ug/Kg	⊛	97	70 - 130	12	30
4:2 FTS	<0.054		0.399	0.411		ug/Kg	⊛	103	70 - 130	10	30
6:2 FTS	<0.054		0.405	0.423		ug/Kg	⊛	104	70 - 130	8	30
8:2 FTS	<0.054		0.408	0.428		ug/Kg	⊛	105	70 - 130	2	30
10:2 FTS	<0.054		0.411	0.331		ug/Kg	⊛	81	70 - 130	22	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.054	F1	0.402	0.642	F1	ug/Kg	⊛	160	70 - 130	18	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.054		0.425	0.425		ug/Kg	⊛	100	70 - 130	2	30
F-53B Major	<0.054		0.397	0.392		ug/Kg	⊛	99	70 - 130	7	30
F-53B Minor	<0.054		0.401	0.490		ug/Kg	⊛	122	70 - 130	4	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	MSD Limits
13C4 PFBA	80		25 - 150
13C5 PFPeA	76		25 - 150
13C2 PFHxA	81		25 - 150
13C4 PFHpA	77		25 - 150
13C4 PFOA	66		25 - 150
13C5 PFNA	55		25 - 150
13C2 PFDA	53		25 - 150
13C2 PFUnA	62		25 - 150
13C2 PFDoA	64		25 - 150
13C2 PFTeDA	59		25 - 150
13C2 PFHxDA	54		25 - 150
13C3 PFBS	73		25 - 150
18O2 PFHxS	67		25 - 150
13C4 PFOS	47		25 - 150
13C8 FOSA	49		10 - 150
d3-NMeFOSAA	60		25 - 150
d5-NEtFOSAA	63		25 - 150
d-N-MeFOSA-M	52		10 - 150
d-N-EtFOSA-M	53		10 - 150
d7-N-MeFOSE-M	55		10 - 150
d9-N-EtFOSE-M	55		10 - 150
M2-4:2 FTS	73		25 - 150
M2-6:2 FTS	65		25 - 150
M2-8:2 FTS	46		25 - 150
13C3 HFPO-DA	78		25 - 150
13C2 10:2 FTS	62		25 - 150

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

GC/MS VOA

Prep Batch: 800649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-1	GETSWC-03-121824	Total/NA	Solid	5035	
500-261951-2	GETSWC-04-121824	Total/NA	Solid	5035	
500-261951-3	GETSWC-05-121824	Total/NA	Solid	5035	
500-261951-4	GETSWC-06-121824	Total/NA	Solid	5035	
500-261951-5	GETSWC-07-121824	Total/NA	Solid	5035	
500-261951-6	GETSWC-08-121824	Total/NA	Solid	5035	
500-261951-7	GETSWC-09-121824	Total/NA	Solid	5035	
500-261951-8	GETSWC-10-121824	Total/NA	Solid	5035	
500-261951-9	GETSWC-11-121824	Total/NA	Solid	5035	
500-261951-10	GETSWC-12-121824	Total/NA	Solid	5035	
500-261951-11	GETSWC-13-121824	Total/NA	Solid	5035	
500-261951-12	GETSWC-14-121824	Total/NA	Solid	5035	
500-261951-13	GETSWC-15-121824	Total/NA	Solid	5035	
500-261951-14	GETSWC-16-121824	Total/NA	Solid	5035	
500-261951-15	GETSWC-17-121824	Total/NA	Solid	5035	
500-261951-16	GETSWC-18-121824	Total/NA	Solid	5035	
500-261951-17	GETSWC-19-121824	Total/NA	Solid	5035	
500-261951-18	GETSWC-20-121824	Total/NA	Solid	5035	
500-261951-19	GETSWC-21-121824	Total/NA	Solid	5035	
500-261951-20	GETSWC-22-121824	Total/NA	Solid	5035	
LB3 500-800649/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-800649/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-261951-20 MS	GETSWC-22-121824	Total/NA	Solid	5035	
500-261951-20 MSD	GETSWC-22-121824	Total/NA	Solid	5035	

Prep Batch: 800650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-21	GETSWC-23-121824	Total/NA	Solid	5035	
500-261951-22	DUP-01-121824	Total/NA	Solid	5035	
500-261951-23	DUP-02-121824	Total/NA	Solid	5035	
LB3 500-800650/6-A	Method Blank	Total/NA	Solid	5035	
LCS 500-800650/7-A	Lab Control Sample	Total/NA	Solid	5035	
500-261951-21 MS	GETSWC-23-121824	Total/NA	Solid	5035	
500-261951-21 MSD	GETSWC-23-121824	Total/NA	Solid	5035	

Analysis Batch: 800956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-21	GETSWC-23-121824	Total/NA	Solid	8260D	800650
500-261951-22	DUP-01-121824	Total/NA	Solid	8260D	800650
500-261951-23	DUP-02-121824	Total/NA	Solid	8260D	800650
MB 500-800956/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-800956/4	Lab Control Sample	Total/NA	Solid	8260D	
500-261951-21 MS	GETSWC-23-121824	Total/NA	Solid	8260D	800650
500-261951-21 MSD	GETSWC-23-121824	Total/NA	Solid	8260D	800650

Analysis Batch: 800959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-1	GETSWC-03-121824	Total/NA	Solid	8260D	800649
500-261951-2	GETSWC-04-121824	Total/NA	Solid	8260D	800649
500-261951-3	GETSWC-05-121824	Total/NA	Solid	8260D	800649
500-261951-4	GETSWC-06-121824	Total/NA	Solid	8260D	800649

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

GC/MS VOA (Continued)

Analysis Batch: 800959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-5	GETSWC-07-121824	Total/NA	Solid	8260D	800649
500-261951-6	GETSWC-08-121824	Total/NA	Solid	8260D	800649
500-261951-7	GETSWC-09-121824	Total/NA	Solid	8260D	800649
500-261951-8	GETSWC-10-121824	Total/NA	Solid	8260D	800649
500-261951-9	GETSWC-11-121824	Total/NA	Solid	8260D	800649
500-261951-10	GETSWC-12-121824	Total/NA	Solid	8260D	800649
500-261951-11	GETSWC-13-121824	Total/NA	Solid	8260D	800649
500-261951-12	GETSWC-14-121824	Total/NA	Solid	8260D	800649
500-261951-13	GETSWC-15-121824	Total/NA	Solid	8260D	800649
500-261951-14	GETSWC-16-121824	Total/NA	Solid	8260D	800649
500-261951-15	GETSWC-17-121824	Total/NA	Solid	8260D	800649
500-261951-16	GETSWC-18-121824	Total/NA	Solid	8260D	800649
500-261951-17	GETSWC-19-121824	Total/NA	Solid	8260D	800649
500-261951-18	GETSWC-20-121824	Total/NA	Solid	8260D	800649
500-261951-19	GETSWC-21-121824	Total/NA	Solid	8260D	800649
500-261951-20	GETSWC-22-121824	Total/NA	Solid	8260D	800649
LB3 500-800649/21-A	Method Blank	Total/NA	Solid	8260D	800649
LB3 500-800650/6-A	Method Blank	Total/NA	Solid	8260D	800650
MB 500-800959/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-800649/22-A	Lab Control Sample	Total/NA	Solid	8260D	800649
LCS 500-800650/7-A	Lab Control Sample	Total/NA	Solid	8260D	800650
LCS 500-800959/4	Lab Control Sample	Total/NA	Solid	8260D	
500-261951-20 MS	GETSWC-22-121824	Total/NA	Solid	8260D	800649
500-261951-20 MSD	GETSWC-22-121824	Total/NA	Solid	8260D	800649

Analysis Batch: 800983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-24	EB-01-121924	Total/NA	Water	8260D	
500-261951-25	TRIP BLANK	Total/NA	Water	8260D	
MB 500-800983/7	Method Blank	Total/NA	Water	8260D	
LCS 500-800983/4	Lab Control Sample	Total/NA	Water	8260D	

LCMS

Prep Batch: 824450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-24	EB-01-121924	Total/NA	Water	3535	
MB 320-824450/1-A	Method Blank	Total/NA	Water	3535	
LLCS 320-824450/2-A	Lab Control Sample	Total/NA	Water	3535	
LLCSD 320-824450/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 824614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-24	EB-01-121924	Total/NA	Water	537 (modified)	824450
MB 320-824450/1-A	Method Blank	Total/NA	Water	537 (modified)	824450
LLCS 320-824450/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	824450
LLCSD 320-824450/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	824450

Prep Batch: 824867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-1	GETSWC-03-121824	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

LCMS (Continued)

Prep Batch: 824867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-2	GETSWC-04-121824	Total/NA	Solid	SHAKE	
500-261951-3	GETSWC-05-121824	Total/NA	Solid	SHAKE	
500-261951-4	GETSWC-06-121824	Total/NA	Solid	SHAKE	
500-261951-5	GETSWC-07-121824	Total/NA	Solid	SHAKE	
500-261951-6	GETSWC-08-121824	Total/NA	Solid	SHAKE	
500-261951-7	GETSWC-09-121824	Total/NA	Solid	SHAKE	
500-261951-8	GETSWC-10-121824	Total/NA	Solid	SHAKE	
500-261951-9	GETSWC-11-121824	Total/NA	Solid	SHAKE	
500-261951-10	GETSWC-12-121824	Total/NA	Solid	SHAKE	
500-261951-11	GETSWC-13-121824	Total/NA	Solid	SHAKE	
500-261951-12	GETSWC-14-121824	Total/NA	Solid	SHAKE	
500-261951-13	GETSWC-15-121824	Total/NA	Solid	SHAKE	
500-261951-14	GETSWC-16-121824	Total/NA	Solid	SHAKE	
500-261951-15	GETSWC-17-121824	Total/NA	Solid	SHAKE	
500-261951-15 - DL	GETSWC-17-121824	Total/NA	Solid	SHAKE	
500-261951-16	GETSWC-18-121824	Total/NA	Solid	SHAKE	
500-261951-17	GETSWC-19-121824	Total/NA	Solid	SHAKE	
500-261951-18	GETSWC-20-121824	Total/NA	Solid	SHAKE	
500-261951-19	GETSWC-21-121824	Total/NA	Solid	SHAKE	
500-261951-20	GETSWC-22-121824	Total/NA	Solid	SHAKE	
MB 320-824867/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-824867/3-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LCSD 320-824867/4-A	Lab Control Sample Dup	Total/NA	Solid	SHAKE	
LLCS 320-824867/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
500-261951-1 MS	GETSWC-03-121824	Total/NA	Solid	SHAKE	
500-261951-1 MSD	GETSWC-03-121824	Total/NA	Solid	SHAKE	

Prep Batch: 824897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-21	GETSWC-23-121824	Total/NA	Solid	SHAKE	
500-261951-22	DUP-01-121824	Total/NA	Solid	SHAKE	
500-261951-23	DUP-02-121824	Total/NA	Solid	SHAKE	
MB 320-824897/1-A	Method Blank	Total/NA	Solid	SHAKE	
LLCS 320-824897/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
500-261951-21 MS	GETSWC-23-121824	Total/NA	Solid	SHAKE	
500-261951-21 MSD	GETSWC-23-121824	Total/NA	Solid	SHAKE	

Analysis Batch: 825254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-1	GETSWC-03-121824	Total/NA	Solid	537 (modified)	824867
500-261951-2	GETSWC-04-121824	Total/NA	Solid	537 (modified)	824867
500-261951-3	GETSWC-05-121824	Total/NA	Solid	537 (modified)	824867
500-261951-4	GETSWC-06-121824	Total/NA	Solid	537 (modified)	824867
500-261951-5	GETSWC-07-121824	Total/NA	Solid	537 (modified)	824867
500-261951-6	GETSWC-08-121824	Total/NA	Solid	537 (modified)	824867
500-261951-7	GETSWC-09-121824	Total/NA	Solid	537 (modified)	824867
500-261951-8	GETSWC-10-121824	Total/NA	Solid	537 (modified)	824867
500-261951-9	GETSWC-11-121824	Total/NA	Solid	537 (modified)	824867
500-261951-10	GETSWC-12-121824	Total/NA	Solid	537 (modified)	824867
500-261951-11	GETSWC-13-121824	Total/NA	Solid	537 (modified)	824867
500-261951-12	GETSWC-14-121824	Total/NA	Solid	537 (modified)	824867

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

LCMS (Continued)

Analysis Batch: 825254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-13	GETSWC-15-121824	Total/NA	Solid	537 (modified)	824867
500-261951-14	GETSWC-16-121824	Total/NA	Solid	537 (modified)	824867
500-261951-15	GETSWC-17-121824	Total/NA	Solid	537 (modified)	824867
500-261951-16	GETSWC-18-121824	Total/NA	Solid	537 (modified)	824867
500-261951-17	GETSWC-19-121824	Total/NA	Solid	537 (modified)	824867
500-261951-18	GETSWC-20-121824	Total/NA	Solid	537 (modified)	824867
500-261951-19	GETSWC-21-121824	Total/NA	Solid	537 (modified)	824867
500-261951-20	GETSWC-22-121824	Total/NA	Solid	537 (modified)	824867
MB 320-824867/1-A	Method Blank	Total/NA	Solid	537 (modified)	824867
LCS 320-824867/3-A	Lab Control Sample	Total/NA	Solid	537 (modified)	824867
LCSD 320-824867/4-A	Lab Control Sample Dup	Total/NA	Solid	537 (modified)	824867
LLCS 320-824867/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	824867
500-261951-1 MS	GETSWC-03-121824	Total/NA	Solid	537 (modified)	824867
500-261951-1 MSD	GETSWC-03-121824	Total/NA	Solid	537 (modified)	824867

Analysis Batch: 825462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-15 - DL	GETSWC-17-121824	Total/NA	Solid	537 (modified)	824867

Analysis Batch: 825616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-21	GETSWC-23-121824	Total/NA	Solid	537 (modified)	824897
500-261951-22	DUP-01-121824	Total/NA	Solid	537 (modified)	824897
500-261951-23	DUP-02-121824	Total/NA	Solid	537 (modified)	824897
MB 320-824897/1-A	Method Blank	Total/NA	Solid	537 (modified)	824897
LLCS 320-824897/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	824897
500-261951-21 MS	GETSWC-23-121824	Total/NA	Solid	537 (modified)	824897
500-261951-21 MSD	GETSWC-23-121824	Total/NA	Solid	537 (modified)	824897

General Chemistry

Analysis Batch: 800882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-1	GETSWC-03-121824	Total/NA	Solid	Moisture	
500-261951-2	GETSWC-04-121824	Total/NA	Solid	Moisture	
500-261951-3	GETSWC-05-121824	Total/NA	Solid	Moisture	
500-261951-4	GETSWC-06-121824	Total/NA	Solid	Moisture	
500-261951-5	GETSWC-07-121824	Total/NA	Solid	Moisture	
500-261951-6	GETSWC-08-121824	Total/NA	Solid	Moisture	
500-261951-7	GETSWC-09-121824	Total/NA	Solid	Moisture	
500-261951-8	GETSWC-10-121824	Total/NA	Solid	Moisture	
500-261951-9	GETSWC-11-121824	Total/NA	Solid	Moisture	
500-261951-10	GETSWC-12-121824	Total/NA	Solid	Moisture	
500-261951-11	GETSWC-13-121824	Total/NA	Solid	Moisture	
500-261951-12	GETSWC-14-121824	Total/NA	Solid	Moisture	
500-261951-13	GETSWC-15-121824	Total/NA	Solid	Moisture	
500-261951-14	GETSWC-16-121824	Total/NA	Solid	Moisture	
500-261951-15	GETSWC-17-121824	Total/NA	Solid	Moisture	
500-261951-16	GETSWC-18-121824	Total/NA	Solid	Moisture	
500-261951-17	GETSWC-19-121824	Total/NA	Solid	Moisture	
500-261951-18	GETSWC-20-121824	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

General Chemistry (Continued)

Analysis Batch: 800882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-19	GETSWC-21-121824	Total/NA	Solid	Moisture	

Analysis Batch: 800895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-1	GETSWC-03-121824	Total/NA	Solid	D2974-87	
500-261951-2	GETSWC-04-121824	Total/NA	Solid	D2974-87	
500-261951-3	GETSWC-05-121824	Total/NA	Solid	D2974-87	
500-261951-4	GETSWC-06-121824	Total/NA	Solid	D2974-87	
500-261951-5	GETSWC-07-121824	Total/NA	Solid	D2974-87	
500-261951-6	GETSWC-08-121824	Total/NA	Solid	D2974-87	
500-261951-7	GETSWC-09-121824	Total/NA	Solid	D2974-87	
500-261951-8	GETSWC-10-121824	Total/NA	Solid	D2974-87	
500-261951-9	GETSWC-11-121824	Total/NA	Solid	D2974-87	
500-261951-10	GETSWC-12-121824	Total/NA	Solid	D2974-87	
500-261951-11	GETSWC-13-121824	Total/NA	Solid	D2974-87	
500-261951-12	GETSWC-14-121824	Total/NA	Solid	D2974-87	
500-261951-13	GETSWC-15-121824	Total/NA	Solid	D2974-87	
500-261951-14	GETSWC-16-121824	Total/NA	Solid	D2974-87	
500-261951-15	GETSWC-17-121824	Total/NA	Solid	D2974-87	
500-261951-16	GETSWC-18-121824	Total/NA	Solid	D2974-87	
500-261951-17	GETSWC-19-121824	Total/NA	Solid	D2974-87	
500-261951-18	GETSWC-20-121824	Total/NA	Solid	D2974-87	
500-261951-19	GETSWC-21-121824	Total/NA	Solid	D2974-87	

Analysis Batch: 801128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-20	GETSWC-22-121824	Total/NA	Solid	Moisture	
500-261951-21	GETSWC-23-121824	Total/NA	Solid	Moisture	
500-261951-22	DUP-01-121824	Total/NA	Solid	Moisture	
500-261951-23	DUP-02-121824	Total/NA	Solid	Moisture	

Analysis Batch: 801327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261951-20	GETSWC-22-121824	Total/NA	Solid	D2974-87	
500-261951-21	GETSWC-23-121824	Total/NA	Solid	D2974-87	
500-261951-22	DUP-01-121824	Total/NA	Solid	D2974-87	
500-261951-23	DUP-02-121824	Total/NA	Solid	D2974-87	

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-03-121824

Lab Sample ID: 500-261951-1

Date Collected: 12/18/24 14:50

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-03-121824

Lab Sample ID: 500-261951-1

Date Collected: 12/18/24 14:50

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 14:50
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 00:41
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 21:17

Client Sample ID: GETSWC-04-121824

Lab Sample ID: 500-261951-2

Date Collected: 12/18/24 15:10

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-04-121824

Lab Sample ID: 500-261951-2

Date Collected: 12/18/24 15:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 32.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 15:10
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 01:05
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 22:00

Client Sample ID: GETSWC-05-121824

Lab Sample ID: 500-261951-3

Date Collected: 12/18/24 15:25

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-05-121824

Lab Sample ID: 500-261951-3

Date Collected: 12/18/24 15:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 25.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 15:25
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 01:28

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-05-121824

Lab Sample ID: 500-261951-3

Date Collected: 12/18/24 15:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 25.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 22:14

Client Sample ID: GETSWC-06-121824

Lab Sample ID: 500-261951-4

Date Collected: 12/18/24 16:00

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-06-121824

Lab Sample ID: 500-261951-4

Date Collected: 12/18/24 16:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 41.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 16:00
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 01:51
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 22:28

Client Sample ID: GETSWC-07-121824

Lab Sample ID: 500-261951-5

Date Collected: 12/18/24 15:45

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-07-121824

Lab Sample ID: 500-261951-5

Date Collected: 12/18/24 15:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 15:45
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 02:14
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 23:10

Client Sample ID: GETSWC-08-121824

Lab Sample ID: 500-261951-6

Date Collected: 12/18/24 08:30

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-08-121824

Lab Sample ID: 500-261951-6

Date Collected: 12/18/24 08:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 08:30
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 02:37
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 23:24

Client Sample ID: GETSWC-09-121824

Lab Sample ID: 500-261951-7

Date Collected: 12/18/24 08:40

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-09-121824

Lab Sample ID: 500-261951-7

Date Collected: 12/18/24 08:40

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 08:40
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 03:00
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 23:38

Client Sample ID: GETSWC-10-121824

Lab Sample ID: 500-261951-8

Date Collected: 12/18/24 08:55

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-10-121824

Lab Sample ID: 500-261951-8

Date Collected: 12/18/24 08:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 08:55
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 03:23
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/01/25 23:52

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-11-121824

Lab Sample ID: 500-261951-9

Date Collected: 12/18/24 09:30

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-11-121824

Lab Sample ID: 500-261951-9

Date Collected: 12/18/24 09:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 09:30
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 03:46
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 00:06

Client Sample ID: GETSWC-12-121824

Lab Sample ID: 500-261951-10

Date Collected: 12/18/24 09:20

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-12-121824

Lab Sample ID: 500-261951-10

Date Collected: 12/18/24 09:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 09:20
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 04:09
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 00:20

Client Sample ID: GETSWC-13-121824

Lab Sample ID: 500-261951-11

Date Collected: 12/18/24 10:05

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-13-121824

Lab Sample ID: 500-261951-11

Date Collected: 12/18/24 10:05

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 10:05
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 04:31

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-13-121824

Lab Sample ID: 500-261951-11

Date Collected: 12/18/24 10:05

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 00:34

Client Sample ID: GETSWC-14-121824

Lab Sample ID: 500-261951-12

Date Collected: 12/18/24 10:25

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-14-121824

Lab Sample ID: 500-261951-12

Date Collected: 12/18/24 10:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 10:25
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 04:54
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 00:48

Client Sample ID: GETSWC-15-121824

Lab Sample ID: 500-261951-13

Date Collected: 12/18/24 10:45

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-15-121824

Lab Sample ID: 500-261951-13

Date Collected: 12/18/24 10:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 10:45
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 05:17
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 01:02

Client Sample ID: GETSWC-16-121824

Lab Sample ID: 500-261951-14

Date Collected: 12/18/24 11:30

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-16-121824

Lab Sample ID: 500-261951-14

Date Collected: 12/18/24 11:30

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 11:30
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 05:40
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 01:16

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-17-121824

Lab Sample ID: 500-261951-15

Date Collected: 12/18/24 11:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 11:55
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 06:03
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 01:58
Total/NA	Prep	SHAKE	DL		824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)	DL	10	825462	C1P	EET SAC	01/03/25 00:11

Client Sample ID: GETSWC-18-121824

Lab Sample ID: 500-261951-16

Date Collected: 12/18/24 12:20

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-18-121824

Lab Sample ID: 500-261951-16

Date Collected: 12/18/24 12:20

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 12:20
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 06:26
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 02:12

Eurofins Chicago

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-19-121824

Lab Sample ID: 500-261951-17

Date Collected: 12/18/24 12:35

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-19-121824

Lab Sample ID: 500-261951-17

Date Collected: 12/18/24 12:35

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 12:35
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 06:49
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 02:26

Client Sample ID: GETSWC-20-121824

Lab Sample ID: 500-261951-18

Date Collected: 12/18/24 12:55

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-20-121824

Lab Sample ID: 500-261951-18

Date Collected: 12/18/24 12:55

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 12:55
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 07:11
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 02:40

Client Sample ID: GETSWC-21-121824

Lab Sample ID: 500-261951-19

Date Collected: 12/18/24 13:10

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	800895	ER	EET CHI	12/27/24 10:46
Total/NA	Analysis	Moisture		1	800882	ER	EET CHI	12/27/24 10:00

Client Sample ID: GETSWC-21-121824

Lab Sample ID: 500-261951-19

Date Collected: 12/18/24 13:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 13:10
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 07:34

Eurofins Chicago

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: GETSWC-21-121824

Lab Sample ID: 500-261951-19

Date Collected: 12/18/24 13:10

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 02:54

Client Sample ID: GETSWC-22-121824

Lab Sample ID: 500-261951-20

Date Collected: 12/18/24 13:25

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	801327	MF	EET CHI	12/31/24 16:06
Total/NA	Analysis	Moisture		1	801128	MF	EET CHI	12/30/24 13:45

Client Sample ID: GETSWC-22-121824

Lab Sample ID: 500-261951-20

Date Collected: 12/18/24 13:25

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800649	WRE	EET CHI	12/18/24 13:25
Total/NA	Analysis	8260D		50	800959	EA	EET CHI	12/28/24 07:57
Total/NA	Prep	SHAKE			824867	KMG	EET SAC	12/30/24 11:54
Total/NA	Analysis	537 (modified)		1	825254	C1P	EET SAC	01/02/25 03:08

Client Sample ID: GETSWC-23-121824

Lab Sample ID: 500-261951-21

Date Collected: 12/18/24 13:45

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	801327	MF	EET CHI	12/31/24 16:06
Total/NA	Analysis	Moisture		1	801128	MF	EET CHI	12/30/24 13:45

Client Sample ID: GETSWC-23-121824

Lab Sample ID: 500-261951-21

Date Collected: 12/18/24 13:45

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800650	WRE	EET CHI	12/18/24 13:45
Total/NA	Analysis	8260D		50	800956	EA	EET CHI	12/28/24 00:29
Total/NA	Prep	SHAKE			824897	ATB	EET SAC	12/30/24 12:59
Total/NA	Analysis	537 (modified)		1	825616	C1P	EET SAC	01/03/25 14:27

Client Sample ID: DUP-01-121824

Lab Sample ID: 500-261951-22

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	801327	MF	EET CHI	12/31/24 16:06
Total/NA	Analysis	Moisture		1	801128	MF	EET CHI	12/30/24 13:45

Eurofins Chicago

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Client Sample ID: DUP-01-121824

Lab Sample ID: 500-261951-22

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800650	WRE	EET CHI	12/18/24 00:00
Total/NA	Analysis	8260D		50	800956	EA	EET CHI	12/28/24 00:55
Total/NA	Prep	SHAKE			824897	ATB	EET SAC	12/30/24 12:59
Total/NA	Analysis	537 (modified)		1	825616	C1P	EET SAC	01/03/25 15:09

Client Sample ID: DUP-02-121824

Lab Sample ID: 500-261951-23

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	801327	MF	EET CHI	12/31/24 16:06
Total/NA	Analysis	Moisture		1	801128	MF	EET CHI	12/30/24 13:45

Client Sample ID: DUP-02-121824

Lab Sample ID: 500-261951-23

Date Collected: 12/18/24 00:00

Matrix: Solid

Date Received: 12/20/24 10:15

Percent Solids: 29.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			800650	WRE	EET CHI	12/18/24 00:00
Total/NA	Analysis	8260D		50	800956	EA	EET CHI	12/28/24 01:21
Total/NA	Prep	SHAKE			824897	ATB	EET SAC	12/30/24 12:59
Total/NA	Analysis	537 (modified)		1	825616	C1P	EET SAC	01/03/25 15:23

Client Sample ID: EB-01-121924

Lab Sample ID: 500-261951-24

Date Collected: 12/19/24 10:45

Matrix: Water

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800983	EA	EET CHI	12/28/24 21:48
Total/NA	Prep	3535			824450	BMS	EET SAC	12/27/24 04:02
Total/NA	Analysis	537 (modified)		1	824614	JTD	EET SAC	12/27/24 18:20

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-261951-25

Date Collected: 12/19/24 10:50

Matrix: Water

Date Received: 12/20/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800983	EA	EET CHI	12/28/24 21:22

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-25

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-25

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- 2
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Method Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
D2974-87	Ash Content	ASTM	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30248998.4.3 GETS

Job ID: 500-261951-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261951-1	GETSWC-03-121824	Solid	12/18/24 14:50	12/20/24 10:15
500-261951-2	GETSWC-04-121824	Solid	12/18/24 15:10	12/20/24 10:15
500-261951-3	GETSWC-05-121824	Solid	12/18/24 15:25	12/20/24 10:15
500-261951-4	GETSWC-06-121824	Solid	12/18/24 16:00	12/20/24 10:15
500-261951-5	GETSWC-07-121824	Solid	12/18/24 15:45	12/20/24 10:15
500-261951-6	GETSWC-08-121824	Solid	12/18/24 08:30	12/20/24 10:15
500-261951-7	GETSWC-09-121824	Solid	12/18/24 08:40	12/20/24 10:15
500-261951-8	GETSWC-10-121824	Solid	12/18/24 08:55	12/20/24 10:15
500-261951-9	GETSWC-11-121824	Solid	12/18/24 09:30	12/20/24 10:15
500-261951-10	GETSWC-12-121824	Solid	12/18/24 09:20	12/20/24 10:15
500-261951-11	GETSWC-13-121824	Solid	12/18/24 10:05	12/20/24 10:15
500-261951-12	GETSWC-14-121824	Solid	12/18/24 10:25	12/20/24 10:15
500-261951-13	GETSWC-15-121824	Solid	12/18/24 10:45	12/20/24 10:15
500-261951-14	GETSWC-16-121824	Solid	12/18/24 11:30	12/20/24 10:15
500-261951-15	GETSWC-17-121824	Solid	12/18/24 11:55	12/20/24 10:15
500-261951-16	GETSWC-18-121824	Solid	12/18/24 12:20	12/20/24 10:15
500-261951-17	GETSWC-19-121824	Solid	12/18/24 12:35	12/20/24 10:15
500-261951-18	GETSWC-20-121824	Solid	12/18/24 12:55	12/20/24 10:15
500-261951-19	GETSWC-21-121824	Solid	12/18/24 13:10	12/20/24 10:15
500-261951-20	GETSWC-22-121824	Solid	12/18/24 13:25	12/20/24 10:15
500-261951-21	GETSWC-23-121824	Solid	12/18/24 13:45	12/20/24 10:15
500-261951-22	DUP-01-121824	Solid	12/18/24 00:00	12/20/24 10:15
500-261951-23	DUP-02-121824	Solid	12/18/24 00:00	12/20/24 10:15
500-261951-24	EB-01-121924	Water	12/19/24 10:45	12/20/24 10:15
500-261951-25	TRIP BLANK	Water	12/19/24 10:50	12/20/24 10:15

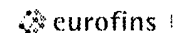
Eurofins Sacramento

880 Riverside Parkway

West Sacramento CA 95605

Phone 916-373-5600 Fax 916-372-1059

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Owen Martzke</u>		Lab PM Fredrick, Sandie		Carrier Tracking No(s)		COC No 500-131782-51504 1															
Client Contact: Lisa Rutkowski		Phone 920-246-1134		E-Mail Sandra.Fredrick@et.eurofins.com		State of Origin WI		Page Page 1 of 3															
Company Arcadis US Inc		PWSID		Analysis Requested						Job # 500-261951													
Address 790 North Milwaukee Street, Suite 100A		Due Date Requested		 500-261951 COC						Preservation Codes N None													
City Milwaukee		TAT Requested (days) STANDARD								Other													
State Zip WI, 53202		Compliance Project ☐ Yes ☐ No																					
Phone		PO # 30248998 4 3																					
Email lisa.rutkowski@arcadis.com		WO #																					
Project Name Marinette, WI 30248998 4 3 GETS		Project # 50021899																					
Site		SSOW#																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		PPC_IDA_WI - PFAS, Standard List (36 Analytes)		VOC		Fractional Organic Carbon		Total Number of Containers		Special Instructions/Note:	
1 GETSWC-03-121824		12/18/24		1450		C		Solid		N		N		N		N		N		N		3 Analyze FOC from 4oz. PFAS bottle	
2 GETSWC-04-121824				1510				Solid		N		N		N		N		N		N			
3 GETSWC-05-121824				1525				Solid		N		N		N		N		N		N			
4 GETSWC-06-121824				1600				Solid		N		N		N		N		N		N			
5 GETSWC-07-121824				1545				Solid		N		N		N		N		N		N			
6 GETSWC-08-121824				0830				Solid		N		N		N		N		N		N			
7 GETSWC-09-121824				0840				Solid		N		N		N		N		N		N			
8 GETSWC-10-121824				0855				Solid		N		N		N		N		N		N			
9 GETSWC-11-121824				0930				Solid		N		N		N		N		N		N			
10 GETSWC-12-121824				0920				Solid		N		N		N		N		N		N			
11 GETSWC-13-121824		↓		1005		↓		Solid		N		N		N		N		N		N		↓	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months													
Deliverable Requested I, II, III, (IV) Other (specify)										Special Instructions/QC Requirements													
Empty Kit Relinquished by				Date				Time				Method of Shipment:											
Relinquished by: <u>Owen Martzke</u>				Date/Time: <u>12/19/24 1100</u>				Company: <u>ARCADIS</u>				Received by: <u>Stephanie Hernandez</u>				Date/Time: <u>12/19/24 1015</u>				Company: <u>EEH</u>			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact ☐ Yes ☐ No				Custody Seal No				Cooler Temperature(s) °C and Other Remarks <u>-0.8+-1.1, -1.1+-1.4</u>															

 eurofins | Environment Testing

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HEATH PARKER (ARCADIS)
JCI/ARCADIS
2700 INDUSTRIAL PARKWAY
BUILDING 112-RECEIVING STATION 5
MARINETTE, WI 54143
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

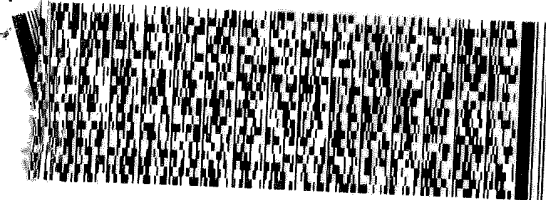
UNIVERSITY PARK IL 60484

(708) 634-5200

REF

DEPT

RMA



FedEx
Express



1010107020307

RETURNS MON-SAT

FRI - 20 DEC AA

PRIORITY OVERNIGHT

4283 7741 8061

XP JOTA

60484

IL-US

ORD



3602251 19Dec2024 GRBA 581G5/49B9/5FE5

AARON CAPPAERT
JCI/ARCADIS
2700 INDUSTRIAL PARKWAY
BUILDING 112-RECEIVING STATION 5
MARINETTE, WI 54143
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 634-5200

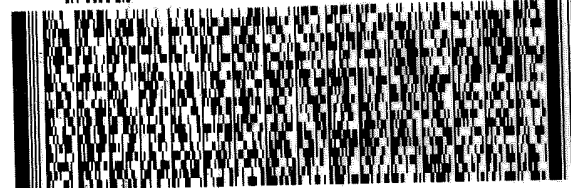
REF

DEPT

INV

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RMA



Fe

FedEx
TRK# 4221 9521 6091

XP JOTA

FRI - 20 DEC AA
PRIORITY OVERNIGHT

60484

IL-US

ORD



3602251 19Dec2024 GRBA 581G5/49B9/5FE5



500-261951 Waybi

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler N/A	Lab PM Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-196543 1
Shipping/Receiving		Phone: N/A	E-Mail: Sandra.Fredrick@eurofins.com	State of Origin: Wisconsin	Page: Page 1 of 3
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State - Wisconsin State Program - Wisconsin			Job #: 500-261951-1
Address: 880 Riverside Parkway City: West Sacramento State, Zip: CA, 95605		Due Date Requested: 1/7/2025			Preservation Codes -
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days) N/A			
Email: N/A					
Project Name: Mannette, WI 30248998 4 3 GETS					
Site: N/A					
		PO #: N/A	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, A=air)	
		WO #: N/A	Sample Time	Preservation Code:	
		Project #: 50021899	Sample Date	Field Filtered Sample (Yes or No)	
		SSOW#: N/A		Perform MS/MSD (Yes or No)	
				PFC IDA, W/SHake, Bath, 28D PFA5, Standard List (36)	
				PFC IDA, W/3535_PFC_28D PFA5, Standard List (36)	
				Analytes	
				Total Number of containers	
				Other: N/A	
				Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)					
GETSWC-03-121824 (500-261951-1)	12/18/24	14:50 Central	G	Solid	1
GETSWC-04-121824 (500-261951-2)	12/18/24	15:10 Central	G	Solid	1
GETSWC-05-121824 (500-261951-3)	12/18/24	15:25 Central	G	Solid	1
GETSWC-06-121824 (500-261951-4)	12/18/24	16:00 Central	G	Solid	1
GETSWC-07-121824 (500-261951-5)	12/18/24	15:45 Central	G	Solid	1
GETSWC-08-121824 (500-261951-6)	12/18/24	08:30 Central	G	Solid	1
GETSWC-09-121824 (500-261951-7)	12/18/24	08:40 Central	G	Solid	1
GETSWC-10-121824 (500-261951-8)	12/18/24	08:55 Central	G	Solid	1
GETSWC-11-121824 (500-261951-9)	12/18/24	09:30 Central	G	Solid	1
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontractor laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by					
Date:					
Relinquished by: <i>Danjanee Yarbrough</i>					
Date/Time: 12/20/24 16:15					
Relinquished by:					
Date/Time:					
Relinquished by:					
Date/Time:					
Custody Seal Intact: <i>Yes</i>					
Custody Seal No					
Cooler Temperature(s) °C and Other Remarks: <i>4.1k</i>					
Ver: 10/10/2024					

Client Information (Sub Contract Lab)						Lab PM.	Carrier Tracking No(s)	COC No:							
Client Contact:						N/A	Fredrick, Sandie	500-196543.3							
Shipping/Receiving						E-Mail	State of Origin:	Page:							
Company						Sandra Fredrick@et.eurofins.com	Wisconsin	Page 3 of 3							
Eurofins Environment Testing Northern Ca															
Address:															
City															
West Sacramento															
State, Zip:															
CA, 95605															
Phone:															
916-373-5600(Tel) 916-372-1059(Fax)															
Email:															
N/A															
Project Name:															
Marnette WI 3024898 4 3 GETS															
Site:															
N/A															
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wenator, Swallow, On-wastefoil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_W/Shake_Bath_28D PFA's, Standard List (36 Analytes)	PFC_IDA_WI/3535_PFC_28D PFA's, Standard List (36 Analytes)	Total Number of Containers	Special Instructions/Note:
GETSWC-21-121824 (500-261951-19)						12/18/24	13 10 Central	G	Solid	X	X	X	X	1	
GETSWC-22-121824 (500-261951-20)						12/18/24	13 25 Central	G	Solid	X	X	X	X	1	
GETSWC-23-121824 (500-261951-21)						12/18/24	13 45 Central	G	Solid	X	X	X	X	1	
GETSWC-23-121824 (500-261951-21MS)						12/18/24	13 45 Central	G	Solid	X	X	X	X	1	
GETSWC-23-121824 (500-261951-21MSD)						12/18/24	13 45 Central	G	Solid	X	X	X	X	1	
DUP-01-121824 (500-261951-22)						12/18/24	Central	G	Solid	X	X	X	X	1	
DUP-02-121824 (500-261951-23)						12/18/24	Central	G	Solid	X	X	X	X	1	
EB-01-121924 (500-261951-24)						12/19/24	10 45 Central	G	Water	X	X	X	X	1	REPORT ALL RUNS
Note: Since laboratory accreditations are subject to change Eurofins Chicago does the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Chicago															
Possible Hazard Identification															
Unconfirmed															
Deliverable Requested I, II III IV Other (specify)															
Primary Deliverable Rank: 2															
Empty Kit Relinquished by															
Relinquished by															
Date/Time: 12/20/24 16:15															
Relinquished by															
Date/Time:															
Relinquished by															
Date/Time:															
Custody Seals Intact: A Yes A No															
Custody Seal No															
Cooler Temperature(s) °C and Other Remarks:															

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 500-261951-1

Login Number: 261951

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-1.1,-1.4 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 500-261951-1

Login Number: 261951

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 12/21/24 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2442769
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	