FINAL REMEDIAL INVESTIGATION REPORT

Speedy's Cleaners

(Site No. 828109)

Pittsford, New York

New York State Department of Environmental Conservation

October 2023

CDM Smith

Certification Page

I, Amy E. Picunas, certify that I am currently a New York State registered professional engineer and that this *Final Remedial Investigation Report for Speedy's Cleaners Site NYSDEC Site No. 828109*, October 16, 2023 was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work and any DER-approved modifications.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Amy E. Picunas, of 3 Lear Jet Lane, Suite 100N, Latham, New York, am certifying as Owner's Designated Site Representative for the site.

NYS Professional Engineer # 089022

Date October 16, 2023

Signature Amy E. Picunas



Table of Contents

Acronyms v

Section 1 Introduction 1-1

1.1 Purpose of the Report 1-1
1.2 Site Description and Background 1-2
1.2.1 Site Operational History 1-2
1.2.2 Previous Investigations and Remedial Actions 1-5
1.2.3 Monitoring Well Nomenclature 1-6
1.3 Report Organization 1-7

Section 2 Study Area Investigations 2-1

2.1 Geophysical Survey 2-2
2.2 Boring Advancement, Soil Sampling, and Groundwater Screening 2-2
2.2.1 Lithologic Logging 2-5
2.2.2 2021 Soil Sampling 2-5
2.2.3 2023 Groundwater Screening 2-5
2.3 Monitoring Well Installation 2-5
2.4 Monitoring Well Development 2-8
2.5 Synoptic Water Level Measurements 2-8
2.6 Monitoring Well Sampling 2-11
2.7 Well Survey 2-11
2.8 Control of Investigation Derived Waste 2-12
2.9 Decontamination Procedures 2-12
2.10 Field Documentation 2-12
2.11 Quality Assurance/Quality Control 2-12
2.11.1 Laboratory Analysis and Validation 2-12
2.11.2 Duplicate Samples 2-14
2.11.3 Field and Trip Blanks 2-15
2.11.4 Equipment Calibration and Maintenance 2-16
2.11.5 Sample Packaging, Shipping, and Custody 2-16

Section 3 Physical Characteristics of the Study Area 3-1

3.1 Topography and Drainage 3-1
3.2 Regional Geology and Hydrogeology 3-1
3.2.1 Unconsolidated Sedimentary Deposits 3-1
3.2.2 Bedrock 3-1
3.2.3 Hydrogeology 3-1
3.3 Site Geology 3-4
3.3.1 Fill 3-4
3.3.2 Lacustrine Deposits 3-4
3.3.3 Glacial Till 3-4
3.4 Site Hydrogeology 3-4
3.4.1 Groundwater Flow 3-4
3.4.2 Hydraulic Conductivity 3-5

Section 4 Nature and Extent of Contamination 4-1
4.1 Impacts to Groundwater 4-1
4.1.1 Selection of Standards, Criteria, and Guidance 4-1
4.1.2 Site-Related Contaminants 4-1
4.1.2.1 Historical Groundwater Data 4-1
4.1.2.2 On-Site Groundwater Data 4-2
4.1.2.3 Off-Site Groundwater Data 4-23
4.1.2.4 Historical and Current VOC Concentration Comparison 4-25
4.1.3 Extent of VOCs in Groundwater 4-27
4.2 Impacts to Soil 4-29
4.2.1 Selection of Standards, Criteria, and Guidance 4-29
4.2.2 Site-Related Contaminants 4-30
4.2.2.1 Historical Soils Data 4-30
4.2.2.2 RI Soils Data 4-31
4.2.3 Soil Contamination Extent and Impacts 4-38

Section 5 Contaminant Fate and Transport 5-1
5.1 Environmental Fate and Transport Characteristics of Site-Related VOCs 5-1
5.1.1 Dissolution 5-1
5.1.2 Sorption 5-2
5.1.3 Volatilization 5-2
5.1.4 Advection, Diffusion, and Dispersion 5-3
5.1.5 Biodegradation 5-4
5.2 Environmental Fate and Transport Characteristics of PFAS 5-4
5.3 Environmental Fate of Site-Related Contaminants 5-5
5.4 Natural Attenuation of VOCs in Groundwater 5-6
5.4.1 Background on Natural Attenuation Processes 5-6
5.4.2 Natural Attenuation Evaluation 5-7
5.4.2.1 PCE and Degradation Byproducts 5-7
5.4.2.2 Sources of Organic Carbon 5-7
5.4.2.3 Presence of Reducing Conditions Suitable for Biodegradation 5-8
5.4.2.4 Water Quality Parameters 5-8
5.4.2.5 Advection, Dilution, and Dispersion 5-8
5.4.2.6 Summary of Natural Attenuation 5-8
5.5 Natural Attenuation of PFAS in Groundwater 5-8
5.6 Conceptual Site Model 5-9
5.6.1 Physical Setting 5-9
5.6.2 Contaminant Sources, Migration Pathways, and Fate 5-9
5.6.2.1 Contaminant Sources 5-9
5.6.2.2 Contaminant Migration Pathways and Fate 5-10
5.6.3 Receptors 5-14

Section 6 Findings, Data Gaps, Conclusions, and Recommendations 6-1
6.1 Findings 6-1
6.2 Data Gaps 6-2
6.3 Conclusions 6-4
6.4 Recommendations 6-4

Section 7 References 7-1

List of Figures

Figure 1-1 Site Location Plan 1-3
Figure 1-2 Site Plan 1-4
Figure 2-1 Sample Location Map 2-3
Figure 3-1 Regional Surficial Geology 3-2
Figure 3-2 Regional Bedrock Geology 3-3
Figure 3-3 Potentiometric Surface Contours – August 2021 3-6
Figure 3-4 Potentiometric Surface Contours – April 2023 3-7
Figure 4-1 VOC Detections and Exceedances in Soil and Groundwater 4-3
Figure 4-2 Non-VOC Exceedances in Soil and Groundwater 4-21
Figure 5-1 Cross-Sectional Profile 5-11

List of Tables

Table 1-1 Monitoring Well IDs 1-7
Table 2-1 Sample Summary and Water Quality Parameters 2-4
Table 2-2 Monitoring Well Construction Summary 2-7
Table 2-3 Groundwater Elevations – August 2021 2-9
Table 2-4 Groundwater Elevations – April 2023 2-10
Table 4-1 Groundwater Analytical Results 4-4
Table 4-2 Frequency of Detections for VOCs, PFAS, and 1,4-dioxane in On-Site Groundwater 4-22
Table 4-3 Frequency of Detections for VOCs and PFAS in Off-Site Groundwater 4-25
Table 4-4 Comparison of PCE, TCE, *cis*-1,2-DCE, and Vinyl Chloride Concentrations in On-Site Groundwater 4-26
Table 4-5 Soil Analytical Results 4-32
Table 4-6 Frequency of Detections for VOCs, PFAS, and 1,4-dioxane in Soil 4-38
Table 5-1 Soil Adsorption Values 5-2
Table 5-2 Henry's Law Constant Values 5-3

Appendices

Appendix A Historic Report Reference Figures
Appendix B Soil Boring Logs and Well Construction Logs
Appendix C Field Notes
Appendix D Low Flow Purge Forms
Appendix E Laboratory Data Reports
Appendix F Data Usability Summary Reports

This page intentionally left blank.

Acronyms

amsl	above mean sea level
ASD	Active Sub-Slab Depressurization
atm-m^3/mol	atmospheres per cubic meter per mole
AWQS	ambient water quality standards and guidance values
bgs	below ground surface
BHC	Hexachlorocyclohexane
ca.	circa
cis-1,2-DCE	*cis*-1,2-dichloroethene
CDM Smith	Camp Dresser McKee and Smith
CSM	conceptual site model
DO	dissolved oxygen
DPT	direct push technology
DUSR	data usability summary report
ELAP	Environmental Laboratory Approval Program
FER	Final Engineering Report
FS	Feasibility Study
ft/day	feet per day
ID	identification
IDW	investigation derived waste
ITRC	Interstate Technology Regulatory Council
K_{oc}	octanol carbon partition coefficient
MNA	monitored natural attenuation
MS/MSD	matrix spike / matrix spike duplicate
NAPL	non-aqueous phase liquid
NAVD88	North American Vertical Datum of 1988
ng/L	nanogram per liter
No.	number
NY	New York
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation reduction potential
Passero	Passero Associates, P.C.
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PFAA	perfluoroalkyl acids
PFAS	per- and poly-fluorinated alkyl substances
PFBA	perfluorobutyric acid
PFDA	perfluorodecanoic acid
PFHp	perfluoroheptane sulfonate
PFHpA	perfluoroheptanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid

PFPeA	perfluoropentanoic acid
PFPES	perfluoropentanesulfonic acid
PID	photoionization detector
PSA	Preliminary Site Assessment
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RG&E	Rochester Gas and Electric Company
RI	Remedial Investigation
RPD	relative percent difference
SCG	standards, criteria, guidance
SCO	soil cleanup objective
Site	Speedy's Cleaners Site
SM	Standard Method
SVOC	semi-volatile organic compound
TAL	Target Analyte List
TCE	trichloroethene
TCL	Target Compound List
TOC	total organic carbon
TOGS	Technical Operation Guidance Standards
VI	vapor intrusion
VOC	volatile organic compound
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	underground storage tank
µg/kg	microgram per kilogram
µg/L	microgram per liter
µg/m^3	microgram per cubic meter

Section 1
Introduction

This final Remedial Investigation (RI) report for the Speedy's Cleaners Site Number (No.) 828109 (the Site), located in Pittsford, Monroe County, New York (NY), was prepared by Camp Dresser McKee and Smith (CDM Smith) for the New York State Department of Environmental Conservation (NYSDEC) under the Engineering Services for Investigation and Design, Standby Contract No. D009805 Work Assignment No. 2, Speedy's Cleaners RI/Feasibility Study (FS).

1.1 Purpose of the Report

The purpose of the RI is to characterize the nature and extent of contamination in the soil and groundwater to refine the conceptual site model (CSM). This RI report presents the data collected during the RI activities performed by CDM Smith from May 27, 2021 to August 18, 2021 and from March 3, 2023 to April 4, 2023. These data will be used to evaluate alternatives to help meet project goals for the FS.

CDM Smith was contracted by NYSDEC to perform an FS to address the remaining groundwater and soil contamination at the Site. The goal of the FS is to identify the most efficient and cost-effective path forward to successfully remediate contamination in groundwater and soil to levels conforming to the appropriate standards. To support the FS, the following tasks were included as a part of the scope of work:

1. A review of past Site information, a subsurface investigation, and a presentation of an updated CSM, in the form of an RI report.

2. An evaluation and costing of at least three remedial alternatives that meet project goals, presented in a report.

The items discussed in the first task listed above are addressed in this RI report. The items in Task 2 are to be presented in a separate FS report to be submitted to NYSDEC following concurrence on this RI report.

The RI report was prepared in accordance with the following documents:

- NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC 2010)
- CDM Smith Schedule 1 – Scope of Work, February 2021, and revisions
- CDM Smith Generic Quality Assurance Project Plan (QAPP), May 2020 and all associated standards operating procedures
- CDM Smith Health and Safety Plan, May 2021
- CDM Smith Health and Safety Plan, March 2023

1.2 Site Description and Background

The Site consists of the 0.293-acre Speedy's Cleaners property and the 0.087-acre Rochester Gas and Electric Company (RG&E) right-of-way property and is located along a commercial corridor in the northwestern section of the Town of Pittsford in Monroe County, New York (**Figure 1-1**). A paved lot and a 4,900-square foot building that is currently occupied by a nail salon are located on the Speedy's Cleaners property (**Figure 1-2**). The property is serviced by public water and sewer. The Oak Hill Country Club borders the northeastern edge of the Site, and retail businesses are adjacent to the northeast and southeast. Monroe Avenue borders the southwestern edge of the Site.

Speedy's Cleaners operated as a dry cleaner at the Site between 1966 and circa (*ca*.) 1993, when on-site dry cleaning ceased. Until 2005, the building operated as a dry cleaning pick-up and drop-off location only. The volatile organic compound (VOC) tetrachloroethene (PCE) was used in dry cleaning operations at the Site for an undetermined amount of time. The Site sustained releases of PCE to the ground over time due to poor operating practices (NYSDEC DER 2012). Potential source areas of contamination include the area along the northeastern wall adjacent to the former vent pipes (see Figure A-1 in **Appendix A**) and the area by the north corner of the building, which may have been used for cleaning dry cleaning filters (NYSDEC 2003).

1.2.1 Site Operational History

The original building on the Site was constructed *ca.* 1958 as a small animal hospital. Charles Speedy purchased the building in 1966 and expanded it from approximately 3,500 square feet to 4,900 square feet, starting a dry cleaning business in the western side of the building. The title of the property was transferred to Demosthenes Speedy on April 12, 1979, then to D & L Realty, Inc. (owned by Dan Speedy; year unknown), and finally to 3130 Monroe Avenue Associates, LLC on May 16, 1999 (NYSDEC 2003). Speedy's Cleaners operated as a dry cleaner in the western side of the building until 1993, when on-site dry cleaning ceased. From 1993 to 2005, the business acted as dry cleaning drop-off and pick-up only (NYSDEC DER 2012). Between 2005 and the present, various retail stores have occupied the building, including a liquor store, an optometrist, and nail salons.



Note:
1. The Speedy's Cleaners site boundary is approximate.

1 inch = 167 feet

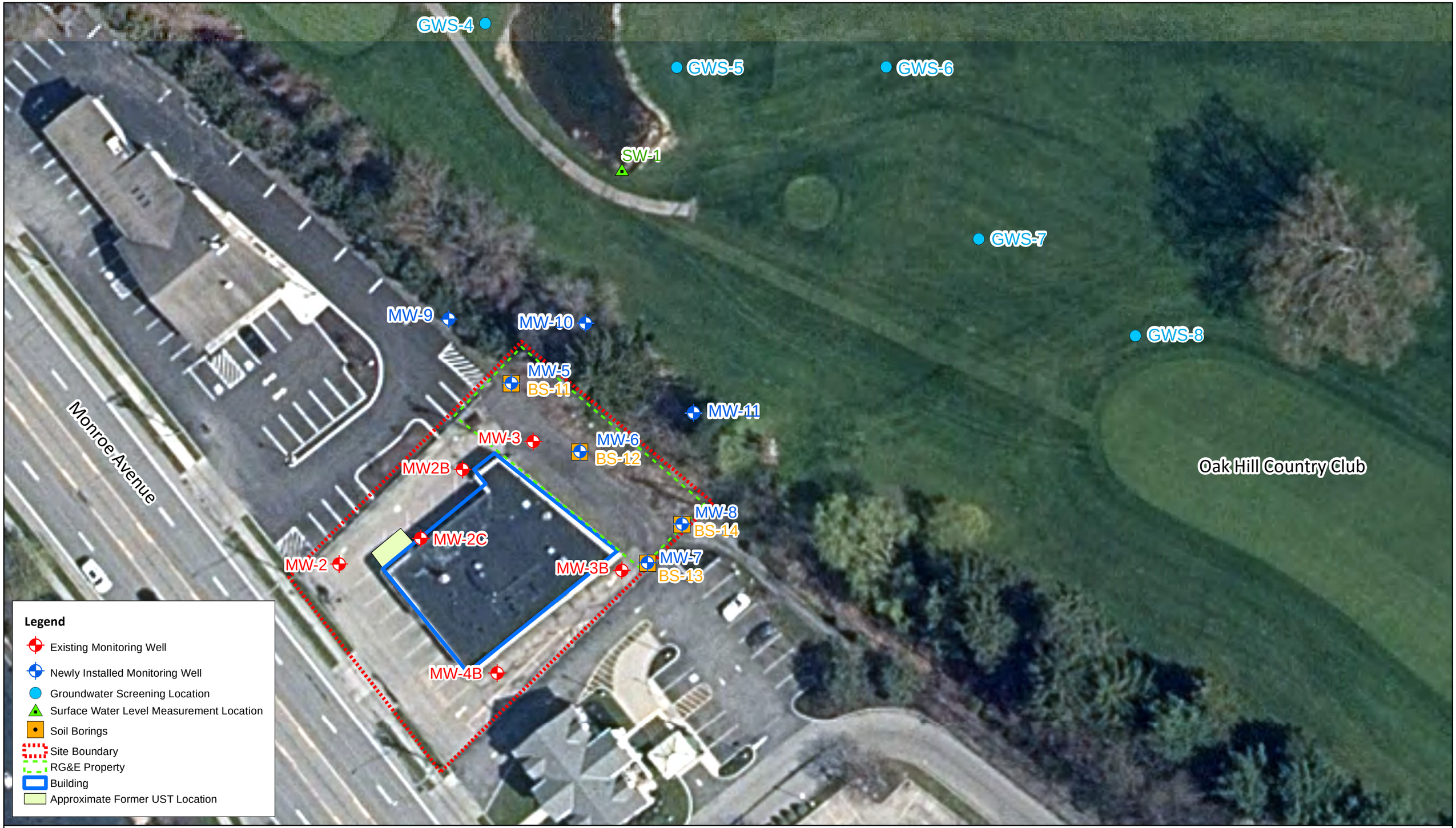
0 75 150 300 Feet

N

Figure 1-1
Site Location Plan
Speedy's Cleaners Site
Pittsford, New York

CDM Smith

wertwa F:\Speedy's Cleaners\GIS\MXD\Figure1-1 Site Location Plan.mxd 10/18/2021



Notes:
1. Monitoring wells MW-5 through MW-8 were installed from June 1 through June 3, 2021. Monitoring wells MW-9 through MW-11 were installed from March 14 through March 16, 2023.
2. The Speedy's Cleaners site boundary and Rochester Gas and Electric (RG&E) property boundaries are approximate.
3. UST - underground storage tank

1 inch = 40 feet

0 15 30 60 Feet

N

Figure 1-2
Site Plan
Speedy's Cleaners Site
Pittsford, New York

APAXIANLE F:\Projects\Speedy's Cleaners\GIS\MXD\Figure1-2 Site Plan_rev1.mxd 6/19/2023

1.2.2 Previous Investigations and Remedial Actions

In 1998, Day Environmental, Inc. performed an environmental assessment of the RG&E right-of-way property for a prospective buyer. Soil samples collected from 2 to 4 feet below ground surface (bgs) in four test borings were found to have elevated concentrations of PCE (10,500 micrograms per kilogram [µg/kg]), trichloroethene (TCE; 1,275 µg/kg), and petroleum-related VOCs. The highest concentrations were found adjacent to the Speedy's Cleaners vent pipes, which were located by the roof line and have since been removed (NYSDEC 2003).

In March 1999, the Site was brought to the attention of the NYSDEC when Passero Associates, P.C. (Passero) encountered petroleum-contaminated soils and found a 1,000-gallon underground storage tank (UST) used to store #2 fuel oil to be seeping free product (fuel oil) during removal. Contamination from the fuel oil spill and potential chlorinated solvent contamination were delineated using 14 soil borings collected between March and May 1999. The highest chlorinated solvent concentrations (PCE: 748,000 µg/kg; TCE: 5,409 µg/kg) were detected in soil samples collected at boring BH-1, from 3 to 4 feet bgs near the northern corner of the building (see Figure A-1 in **Appendix A**). Additionally, a groundwater sample collected in May 1999 from soil boring (BH-9) located 10 feet northwest of the north corner of the building (see Figure A-1 in **Appendix A**) contained elevated levels of vinyl chloride (1,217 micrograms per liter [µg/L]). To delineate the extent of contamination beneath the Speedy's Cleaners building itself, three soil borings were completed through the floor of the former dry cleaning area from 1.5 to 3 feet bgs. PCE was detected in all three borings at a maximum concentration of 81 µg/kg. In July 1999, six additional soil borings were completed on the western side of the building; no chlorinated solvents were detected in any of the soil or groundwater samples collected on the west side of the building (NYSDEC 2003).

Passero excavated soil in the vicinity of the former UST to remediate the petroleum-contaminated soils. In October and November 1999, four injection wells were installed, and *in-situ* bioremediation began of the remaining petroleum-contaminated soil. Groundwater samples collected for VOCs and semi-volatile organic compounds (SVOCs) in October 2001 contained concentrations greater than the NYSDEC ambient water quality standards (AWQS) and guidance values for only three compounds: *cis*-1,2-dichloroethene (*cis*-1,2-DCE; 7 µg/L), vinyl chloride (6 µg/L), and benzene (2 µg/L). Based on groundwater sample analytical results and post excavation soil sample results, the NYSDEC Spills department determined the Site had been remediated of petroleum contamination, and the petroleum spill file was closed on February 15, 2002 (NYSDEC 2003).

Between 2001 and 2002, Passero conducted groundwater, soil, surface water, and sediment sampling as part of the Preliminary Site Assessment (PSA) with the goal of providing adequate information to assess the likelihood of removal of the Site from the Registry of Inactive Hazardous Waste Sites in New York State. Groundwater and soil samples were concentrated in the northern portion of the Site, the area of the most significant potential releases of PCE to the ground. Elevated concentrations of PCE and its degradation products were discovered in samples adjacent to and north of the north corner of the building, with maximum PCE detections in groundwater and soil of 5,900 µg/L and 111,000 µg/kg, respectively. Surface water and sediment samples were collected from the small pond on the Oak Hill Country Club property downgradient

to the Site and from small streams as either downgradient or background samples. VOCs were not detected in surface water or sediment (NYSDEC 2003).

In July 2005, soil samples were collected from the northwestern and southeastern sides of the building; the highest PCE concentration was detected near the north corner of the building (Passero, 2012). In September 2005, four months prior to Speedy's Cleaners lease expiration, groundwater sampling and vapor intrusion (VI) testing of the sub-slab, interior, and exterior of the building were completed. PCE was present in the sub-slab air at 83,000 micrograms per cubic meter (µg/m^3) and in interior ambient air at a maximum of 1,110 µg/m^3, indicating potential exposure to building occupants (Passero, 2006). In 2006, an Active Sub-Slab Depressurization (ASD) system was installed. During renovations conducted for the new building occupant, a nail salon, trenches that were cut in the floor slab as part of a new plumbing system were also utilized by the mitigation contractor as a means to facilitate sub-slab vapor movement from below the building and allow for discharge outside. Additionally, vertical vacuum points were installed on the sides of the building. By May 2006, the ASD was fully operational (Passero, 2012).

Confirmatory indoor air sampling conducted after the nail salon opened indicated elevated levels of PCE and TCE. Ventilation hoods used by the nail salon to ventilate acetone to the exterior of the building may have created negative pressure within the building, thus counteracting the ASD and drawing PCE vapors into the interior. In an attempt to mitigate this issue, the ASD air flow was increased, and in March 2008, additional vacuum points were installed to increase the ASD efficiency. A higher power fan was also installed at this time to increase the vacuum pressure of the system. In March 2009, the fan was repaired, and a 3-inch diameter pipe was installed to increase air flow in the sub-slab. Various adjustments to valves on the system piping have been made when necessary to optimize system performance (Passero, 2012).

1.2.3 Monitoring Well Nomenclature

Site monitoring wells have been named inconsistently across past reports, with some wells having the same identification (ID) number (e.g., two different wells labeled as MW-2 in two different reports). To limit confusion, monitoring well IDs have been standardized and used in this report as seen on **Figure 1-2**. Monitoring well IDs used during the RI are correlated to well IDs as reported in the 2002 PSA Report and the 2005 Final Engineering Report (FER) in **Table 1-1** below. All wells discussed in this report are identified by the 2023 RI well ID.

Table 1-1 Monitoring Well IDs

2023 RI Well ID	2002 PSA Well ID	2005 FER Well ID
MW-11	MW-1	--
MW-1B1	--	MW-1
MW-2	MW-2	--
MW-2B		MW-2
MW-2C		--
MW-3	MW-3	--
MW-3B		MW-3
MW-42	MW-4	--
MW-4B		MW-4
MW-5	--	--
MW-6	--	--
MW-7	--	--
MW-8	--	--
MW-9	--	--
MW-10	--	--
MW-11	--	--

[1] Well abandoned; not presented on **Figure 2-1**

[2] Well could not be located during 2021 and 2023 RI field work; not presented on **Figure 2-1**

-- Well ID not used in report

1.3 Report Organization

Section 1 Introduction presents the purpose of this report, Site background and history, and operational and remedial history.

Section 2 Study Area Investigations provides a summary of the investigation procedures, any variations which may have influenced sampling procedures or analytical results, and quality assurance (QA) /quality control (QC) methods pertinent to the field investigation.

Section 3 Physical Characteristics of the Study Area describes the physical conditions of the Site and surroundings, including a general description of hydrogeology, topography, and groundwater levels and flow direction.

Section 4 Nature and Extent of Contamination presents and evaluates the groundwater and soils data collected during the field investigation, including a comparison of analytical results of the environmental samples to the recommended New York State standards and to historical data.

Section 5 Contaminant Fate and Transport presents contaminant migration pathways, an updated conceptual model of the Site sources, and receptors.

Section 6 Findings, Data Gaps, Conclusions, and Recommendations presents the conclusions based upon the results of the RI, defines existing data gaps, and presents recommendations for potential future work.

Section 7 References

Section 2
Study Area Investigations

The RI was designed to further characterize the nature and extent of contamination in soil and groundwater to refine the CSM to provide sufficient data to support the FS and evaluation of alternatives for the Site. The following subsections describe the RI field investigations conducted from May 27, 2021 to August 18, 2021 and from March 13, 2023 to April 4, 2023. The field investigations, except where noted, were conducted in accordance with CDM Smith's Generic QAPP dated May 2020, previously provided to NYSDEC and approved for Contract Number D009805-2.

The 2021 field investigation activities included the following activities:

- Geophysical survey using radio frequency, ground-penetrating radar, and electromagnetic equipment
- Advancement and sampling of four on-site soil borings via direct push technology (DPT)
- Recording of lithology at all soil boring locations
- Installation and development of four on-site monitoring wells
- One round of synoptic water level measurements
- Groundwater sampling at four existing and four newly installed on-site monitoring wells
- Survey of newly installed and existing monitoring wells and surface water pond

The 2023 field investigation activities included the following activities:

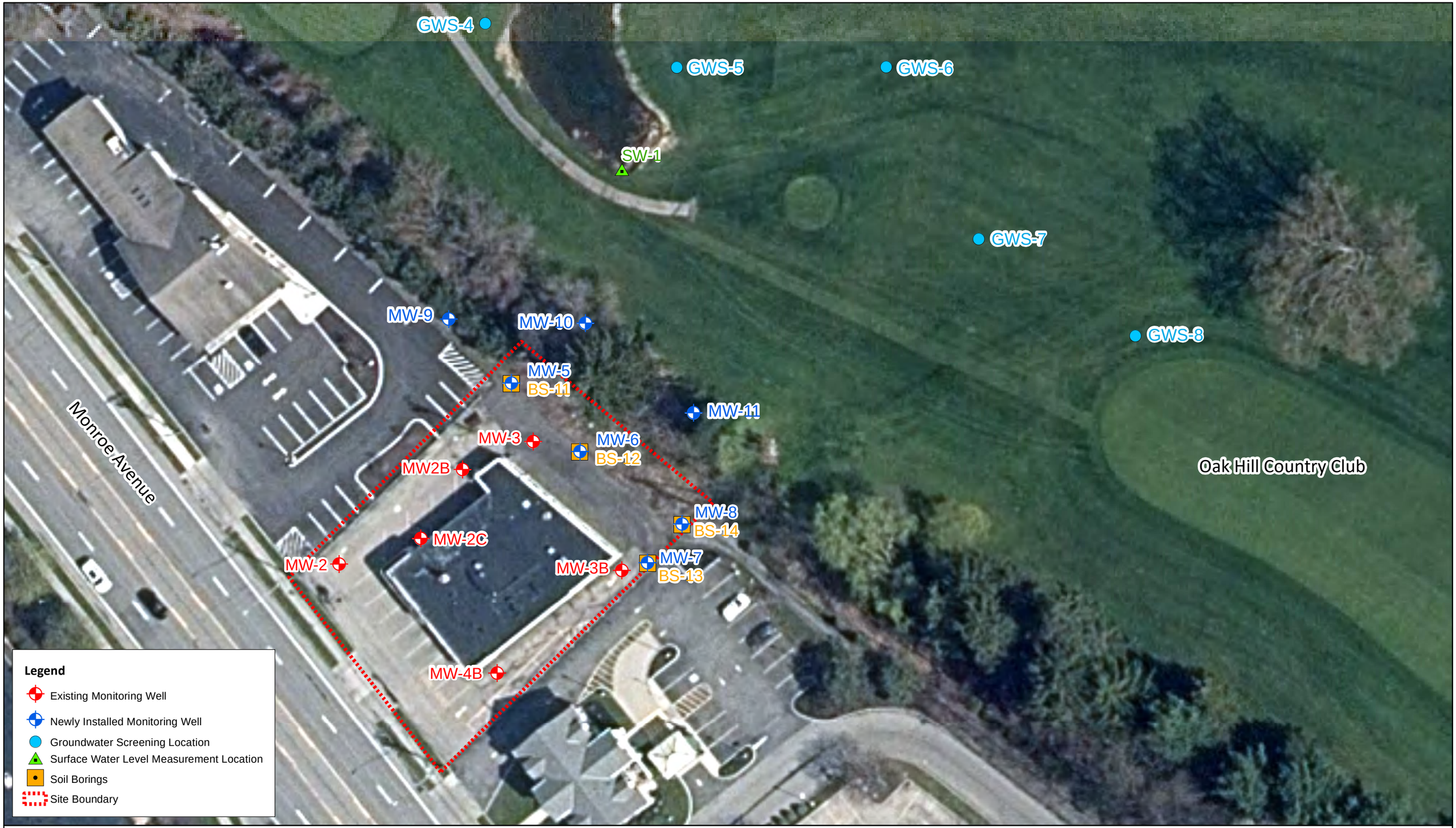
- Geophysical survey using radio frequency, ground-penetrating radar, and electromagnetic equipment
- Advancement and sampling of eight off-site groundwater screening borings via DPT
- Recording of lithology at all groundwater screening boring locations
- Installation and development of three off-site monitoring wells
- One round of synoptic water level measurements
- Groundwater sampling at two existing on-site monitoring wells and three newly installed off-site monitoring wells
- Survey of groundwater screening borings and newly installed monitoring wells

2.1 Geophysical Survey

A geophysical survey was conducted by Advanced Geologic Services, Inc. on May 27, 2021, prior to the 2021 on-site soil boring advancement and monitoring well installation. A second geophysical survey was conducted by East Coast Geophysics, Inc. on March 3, 3023, prior to the 2023 off-site groundwater screening boring advancement and monitoring well installation. Radio frequency utility locating methodology, the ground-penetrating radar geophysical methodology, and the hand-held electromagnetic metal detection methodology were used during both surveys. The purpose of these surveys was to identify underground utilities, water lines, USTs, and/or any large anomalies such as conduits. During both surveys, the ground surface was marked at the locations of the anomalies identified during the survey prior to final analysis and interpretation off-site.

2.2 Boring Advancement, Soil Sampling, and Groundwater Screening

Soil was sampled and characterized at four on-site soil boring locations (BS-11, BS-12, BS-13, and BS-14) advanced in 2021 prior to monitoring well installation. Soil sample locations are shown on **Figure 2-1**. Soil sample information for each boring is included in **Table 2-1**. While soil samples were not collected at the off-site borings (GWS-1 through GWS-8) advanced in 2023, groundwater screening samples were collected at these borings to characterize the extent of contamination in off-site groundwater.



Notes:
1. Monitoring wells MW-5 through MW-8 were installed from June 1 through June 3, 2021. Monitoring wells MW-9 through MW-11 were installed from March 14 through March 16, 2023.
2. The Speedy's Cleaners site boundary and Rochester Gas and Electric (RG&E) property boundaries are approximate.
3. UST - underground storage tank

CDM Smith

1 inch = 40 feet

0 15 30 60 Feet

N

Figure 2-1
Sample Location Map
Speedy's Cleaners Site
Pittsford, New York

APAXIANLE F:\Projects\Speedy's Cleaners\GIS\MXD\Figure2-1 Sample Location Map_rev1.mxd 6/20/2023

Table 2-1
Sample Summary and Water Quality Parameters
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

Location	Sample ID	Sample Date	Sample Interval (ft bgs)	pH	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	Analysis														Notes
										TCL VOCs	TOC	Sulfate	Sulfide, Total	Nitrite/ Nitrate	Alkalinity	Chloride	Ferous Iron	TCL SVOCs	Pesticides	PCBs	1,4-Dioxane	PFAS	TAL Metals	
2021 Soil Samples																								
BS-11	828109-BS-11-13-14-060221	6/2/2021	10-11	N/A	N/A	N/A	N/A	N/A	N/A	X								X	X	X	X	X	X	
	828109-BS-911-13-14-060221	6/2/2021	10-11	N/A	N/A	N/A	N/A	N/A	N/A	X								X	X	X	X	X	X	Field Duplicate
	828109-BS-11-13-14-060221 - MS	6/2/2021	10-11	N/A	N/A	N/A	N/A	N/A	N/A	X								X	X	X	X	X	X	MS
	828109-BS-11-13-14-060221 - MSD	6/2/2021	10-11	N/A	N/A	N/A	N/A	N/A	N/A	X								X	X	X	X	X	X	MS/MSD
BS-12	828109-BS-12-14-15-060221	6/2/2021	10-12	N/A	N/A	N/A	N/A	N/A	N/A	X											X			
BS-13	828109-BS-13-10-12-060121	6/1/2021	10-12	N/A	N/A	N/A	N/A	N/A	N/A	X											X			
BS-14	828109-BS-14-10-11-060121	6/1/2021	10-11	N/A	N/A	N/A	N/A	N/A	N/A	X											X			
2021 Groundwater Samples																								
MW-2	828109-GW-MW-2-062121	6/21/2021	3.9-13.9	6.85	1.883	0.65	55.5	17.2	10.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	828109-GW-MW-2-062121-MS	6/21/2021	3.9-13.9	6.85	1.883	0.65	55.5	17.2	10.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS
	828109-GW-MW-2-062121-MSD	6/21/2021	3.9-13.9	6.85	1.883	0.65	55.5	17.2	10.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS/MSD
MW-2B	828109-GW-MW-2B-062321	6/23/2021	--	6.85	3.586	2.09	-69.1	15.6	18.72	X	X	X	X	X	X	X	X				X			
MW-3	828109-GW-MW-3-062221	6/22/2021	7.9-17.9	6.82	2.94	0.47	-64.9	13.5	4.13	X	X		X	X	X	X	X				X			
MW-3B	828109-GW-MW-3B-062121	6/21/2021	--	6.93	0.909	0.76	-99.1	17.8	4.89	X	X	X	X	X	X	X	X				X			
MW-5	828109-GW-MW-5-062221	6/22/2021	8.5-18	6.97	2.304	2.65	127.1	12.8	9.23	X	X		X	X	X	X	X				X			
MW-6	828109-GW-MW-6-062221	6/22/2021	8-18	6.93	1.688	0.56	-57.1	12.9	14.26	X	X		X	X	X	X	X	X	X	X	X	X	X	
	828109-GW-MW-906-062121	6/21/2021	8-18	6.93	1.688	0.56	-57.1	12.9	14.26	X	X		X	X	X	X	X	X	X	X	X	X	X	Field Duplicate
MW-7	828109-GW-MW-7-062121	6/21/2021	7-17	6.81	7.787	0.4	-23.2	14.9	9.21	X	X	X	X	X	X	X	X				X			
MW-8	828109-GW-MW-8-062121	6/21/2021	7-17	6.92	6.962	0.49	31.6	14.3	23.98	X	X	X	X	X	X	X	X				X			
2023 Groundwater Samples																								
GWS-4	GWS-4-03132023	3/13/2023	5-10	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
GWS-5	GWS-5-03132023	3/13/2023	4-9	N/A	N/A	N/A	N/A	N/A	N/A	X												X		MS/MSD
GWS-6	GWS-6-03132023	3/13/2023	6-11	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
GWS-7	GWS-7-03132023	3/13/2023	5-10	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
GWS-8	GWS-8-03132023	3/13/2023	5-10	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
MW-3	828109-MW-3-8-18-040423	4/4/2023	8-18	6.80	2.026	0.34	-30.6	11.6	4.25	X												X		
MW-5	828109-MW-5-8.5-18.5-040323	4/3/2023	8.5-18.5	6.72	1.626	2.44	139.8	10.2	10.7	X												X		
	828109-MW-905-8.5-18.5-040323	4/3/2023	8.5-18.5	6.72	1.626	2.44	139.8	10.2	10.7	X												X		Field Duplicate
MW-9	GWS-1-03162023	3/16/2023	14-19	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
	828109-MW-9-9-19-040323	4/3/2023	9-19	7.08	4.030	N/A	133.1	12.1	13.9	X	X	X	X	X	X	X	X					X		MS/MSD
MW-10	GWS-2-03132023	3/13/2023	3-8	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
	GWS-902-03132023	3/13/2023	3-8	N/A	N/A	N/A	N/A	N/A	N/A	X												X		Field Duplicate
	828109-MW-10-3-8-040323	4/3/2023	3-8	7.06	1.893	5.79	174.8	7.6	16.0	X	X	X	X	X	X	X	X					X		
MW-11	GWS-3-03132023	3/13/2023	8-13	N/A	N/A	N/A	N/A	N/A	N/A	X												X		
	828109-MW-11-3-13-040323	4/3/2023	3-13	6.53	4.314	N/A	-34.0	8.0	16.5	X	X	X	X	X	X	X	X					X		

Notes:
1. Water quality parameters were not recorded during groundwater screening.
2. Samples collected in April 2023 were analyzed for ferrous iron in the field using a Hach colorimeter.

bgs - below ground surface
ft - feet
ID - identification
mg/L - milligrams per liter
mS/cm - milliSiemen per centimeter
MS/MSD - matrix spike / matrix spike duplicate
mV - millivolt
N/A - not applicable
NTU - nephelometric turbidity units
ORP - oxidation reduction potential
SVOC - semi-volatile organic compound
TAL - Target Analyte List
TCL - Target Compound List
TOC - total organic carbon
PCB - polychlorinated biphenyl
VOC - volatile organic compound
°C - degrees Celsius
-- - screened interval is unknown

2.2.1 Lithologic Logging

Lithologic logging was performed at all soil borings advanced in 2021 and 2023 to characterize subsurface lithology and stratigraphy. Additionally, the lithology data were used to determine the screen intervals for the newly installed monitoring wells.

Soil cores were collected via DPT methods. Soil collected was examined for visual evidence of contamination (e.g., staining) and screened for VOCs with a photoionization detector (PID). Soils were characterized using the Unified Classification System. Lithology, PID measurements, and physical characteristics were recorded onto boring logs at each location (**Appendix B**).

A DPT rig was used to advance the Geoprobe® Macrocore system to collect continuous soil cores to a proposed target depth of 20 feet bgs in 2021 and 2023. This target depth was not achieved at any boring location in 2021 or 2023. Due to layers of tightly compacted silt, sands, and gravel, refusal was encountered between 17 and 19 feet bgs at each boring in 2021 and between 8 and 19 feet bgs in 2023. Using the DPT rig, soil cores were collected with a 2.25-inch diameter, 5-foot long, stainless steel macro-core sampler. A dedicated 5-foot long, 2-inch diameter macro-core sample liner was placed inside the stainless-steel macro-core barrel and used to collect each sample. The macro-core barrel was advanced in 5-foot intervals for soil collection and retracted to ground surface.

2.2.2 2021 Soil Sampling

In 2021, one soil sample was collected at each of four on-site soil boring locations at a depth based on the highest PID result. Soil samples were shipped to the NYSDEC Callout laboratory, Eurofins TestAmerica, Inc. All soil samples were analyzed for Target Compound List (TCL) VOCs and 1,4-dioxane. One soil sample (BS-11) was analyzed for per- and poly-fluorinated alkyl substances (PFAS), TCL SVOCs, TCL polychlorinated biphenyls (PCBs), TCL organochloride pesticides, and Target Analyte List (TAL) metals. Soil samples were not collected during borehole advancement in 2023.

2.2.3 2023 Groundwater Screening

Groundwater screening samples were collected at each of eight off-site groundwater screening borings on March 13, 2023 to characterize the extent of VOCs and PFAS in off-site groundwater. Once refusal was encountered, samples were collected at the midpoint of a 5-foot screen placed at the bottom of each boring. Following sampling, borings were abandoned and capped with the original sod. Groundwater screening samples were shipped to the CDM Smith subcontract laboratory, Eurofins TestAmerica Inc. laboratory located in Buffalo, New York. All groundwater screening samples were analyzed for TCL VOCs and PFAS.

2.3 Monitoring Well Installation

Four on-site monitoring wells (MW-5 through MW-8) were installed from June 1 to June 3, 2021 by Parratt-Wolff, Inc., based in East Syracuse, New York, after completion of soil sampling. An additional three off-site monitoring wells (MW-9, MW-10, and MW-11) were installed from March 14 to March 16, 2023 by LaBella Associates, based in Ballston, New York, after groundwater screening. Well construction information is listed in **Table 2-2** and well locations are presented on **Figure 2-1**. Locations for the new monitoring wells were selected to fill spatial

gaps between existing monitoring wells as to best characterize the on-site and off-site groundwater contamination and flow direction. Well construction logs are included in **Appendix B**.

Monitoring wells were installed using hollow stem auger methods. A 4.25-inch inner diameter auger with a center plug on the lead auger was advanced to refusal. The center plug was knocked out upon reaching refusal and the well was installed through the augers. Each monitoring well was constructed of a 2-inch diameter schedule 40 polyvinyl chloride (PVC) casing, a 5 or 10 foot 0.010-inch slot PVC well screen, and a flush mount protective casing. Well depths ranged in depth from 17 to 19 feet bgs in 2021 and from 8 to 19 feet bgs in 2023 based on the depth at which refusal was met. All monitoring wells installed during the RI were constructed with a screened interval length of 10 feet with the exception of MW-10, which has a screened interval length of 5 feet. The filter pack consisted of No. #1 sand from the bottom of the screen to 1 to 2 feet above the top of the well screen. A 1- to 2-foot bentonite slurry mixture was placed on top of the sand pack followed by grout to the ground surface. All soil cuttings generated by the drilling and installation of the monitoring wells were containerized in steel drums and staged on-site.

Table 2-2
Monitoring Well Construction Summary
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

Well ID	Date Installed	Total Depth (ft bgs)	Diameter (in)	Screen Length (ft)	Screened Interval (ft bgs)	Easting	Northing	Ground Elevation (ft NAVD88)	Top of PVC Elevation (ft NAVD88)
MW-1[1]	Unknown	19	2	10	9-19	1426369.4	1133784.3	440.70	440.46
MW-2	9/26/2002	13.9	1	10	3.9-13.9	1426314.4	1133758.0	440.50	440.23
MW-2B	7/14/2005	Unknown				1426371.4	1133801.5	440.18	440.00
MW-3	9/26/2002	17.9	1	10	7.9-17.9	1426404.3	1133814.3	440.40	440.27
MW-3B	7/14/2005	Unknown				1426445.3	1133754.9	439.62	439.42
MW-4B	Unknown					1426387.4	1133707.4	440.66	440.58
MW-5	6/2/2021	19.1	2	10	8.5-18.5	1426394.0	1133841.6	440.25	439.92
MW-6	6/2/2021	18	2	10	8-18	1426425.8	1133810.0	439.91	439.67
MW-7	6/1/2021	17	2	10	7-17	1426457.2	1133758.4	438.88	438.55
MW-8	6/1/2021	17	2	10	7-17	1426473.2	1133776.3	439.12	438.98
MW-9	3/16/2023	19.1	2	10	9-19	1426364.9	1133871.4	438.40	438.58
MW-10	3/16/2023	8	2	5	3-8	1426428.4	1133869.4	429.20	429.50
MW-11	3/14/2023	13	2	10	3-13	1426478.5	1133827.8	432.85	433.21

Notes:
1. Well was decomissioned, date unknown.
2. Vertical datum of elevations is based on North American Vertical Datum of 1988 (NAVD88).
3. Horizonal datum is based on the West Zone of the New York State Plane Coordinate System (North American Datum of 1983).
bgs - below ground surface
ft - feet
ID - identification
in - inches
PVC - polyvinyl chloride

2.4 Monitoring Well Development

The newly installed monitoring wells were developed to maximize the hydraulic connection between the well screen and aquifer. Wells were developed using the pump and surge method. Wells were surged using a surge block and purged using a submersible pump. Purging rates varied between 1 to 2 gallons per minute. Well development was considered complete once 5 to 8 well volumes had been purged or the turbidity had dropped considerably based upon visual inspection. All development water was containerized in steel drums.

2.5 Synoptic Water Level Measurements

Synoptic water level measurements were collected from 10 monitoring wells and one surface water pond on August 18, 2021 and from 13 monitoring wells on April 4, 2023. Water level measurements for the August 2021 round are presented in **Table 2-3**, and water level measurements for the April 2023 round are presented in **Table 2-4**. Well locations are shown on **Figure 2-1**. The field notes are located in **Appendix C**.

Prior to measuring water levels, the water-tight caps were removed, and the water levels were allowed to equilibrate with atmospheric pressure. In addition, the headspace of each well was measured for VOCs using a PID. The depth to water at each well was then measured to an accuracy of 0.01 feet with an electric oil-water interface probe. The elevation of the surface water pond was collected by C.T. Male Associates during the 2021 monitoring well survey.

Table 2-3
Groundwater Elevations - August 2021
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

Well ID	Inner Casing Elevation (ft NAVD88)	Well Diameter (in)	Approximate Screened Interval (ft bgs)	Collection Date	Water Level (ft btic)	Water Level Elevation (ft NAVD88)	Well Condition/Notes
MW-2	440.47	1	3.9-13.9	8/18/2021	6.98	433.49	Good
MW-2B	440.00	Unknown		8/18/2021	11.32	428.68	Good
MW-3	440.41	1	7.9-17.9	8/18/2021	11.99	428.42	Good
MW-3B	439.42	Unknown		8/18/2021	10.74	428.68	Good, no bolts
MW-4B	440.58	Unknown		8/18/2021	8.61	431.97	Good
MW-5	439.92	2	8.5-18.5	8/18/2021	12.07	427.85	New
MW-6	439.67	2	8-18	8/18/2021	11.55	428.12	New
MW-7	438.55	2	7-17	8/18/2021	10.50	428.05	New
MW-8	438.98	2	7-17	8/18/2021	10.77	428.21	New

Notes:
1. Vertical datum of elevations is based on North American Vertical Datum of 1988 (NAVD88).
bgs - below ground surface
btic - below top of inner casing
ft - feet
ID - identification
in - inches

Table 2-4
Groundwater Elevations - April 2023
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

Well ID	Inner Casing Elevation (ft NAVD88)	Well Diameter (in)	Approximate Screened Interval (ft bgs)	Collection Date	Water Level (ft btic)	Water Level Elevation (ft NAVD88)	Well Condition/Notes
MW-2	440.15	1	3.9-13.9	4/4/2023	6.63	433.52	Good condition
MW-2B	440.00	Unknown		4/4/2023	10.50	429.50	Good condition. Object found in well.
MW-2C	440.28	Unknown		4/4/2023	4.50	435.78	Good condition. Unusual well plug.
MW-3	440.06	1	7.9-17.9	4/4/2023	11.22	428.84	Good condition
MW-3B	439.42	Unknown		4/4/2023	9.30	430.12	Good condition
MW-4B	440.58	Unknown		4/4/2023	7.57	433.01	Good condition. No well plug.
MW-5	439.92	2	8.5-18.5	4/4/2023	11.00	428.92	Good condition
MW-6	439.67	2	8-18	4/4/2023	9.61	430.06	Good condition
MW-7	438.55	2	7-17	4/4/2023	8.60	429.95	Good condition
MW-8	438.98	2	7-17	4/4/2023	9.62	429.36	Good condition
MW-9	438.58	2	9-19	4/4/2023	10.14	428.44	Good condition
MW-10	429.50	2	3-8	4/4/2023	1.20	428.30	Good condition. No well plug.
MW-11	433.21	2	3-13	4/4/2023	4.30	428.91	Good condition

Notes:
1. Vertical datum of elevations is based on North American Vertical Datum of 1988 (NAVD88).
bgs - below ground surface
btic - below top of inner casing
ft - feet
ID - identification
in - inches

2.6 Monitoring Well Sampling

Groundwater samples were collected from eight on-site monitoring wells (MW-2, MW-2B, MW-3, MW-3B, MW-5, MW-6, MW-7, and MW-8) from June 21 to June 23, 2021 and from five monitoring wells (i.e., two on-site monitoring wells: MW-3 and MW-5; and three off-site monitoring wells: MW-9 through MW-11) from April 3 to April 4, 2023. The monitoring well locations are presented on **Figure 2-1**. Monitoring wells were sampled using a peristaltic pump following the "Low Stress (Low Flow) Purging and Sampling" method as described in the CDM Smith Generic QAPP (May 2020). Sample-dedicated low-density polyethylene tubing was used to purge at each well location.

Water quality parameters were monitored and recorded using a YSI water quality meter. Parameters included temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity were monitored and recorded while purging. Groundwater was purged from each well until the water quality parameters stabilized for three consecutive readings or parameters had stabilized as much as subsurface conditions would allow within a one-hour time period.

During the 2021 field investigation, groundwater samples were collected and sent to the NYSDEC Callout laboratory, Eurofins TestAmerica, Inc. All groundwater samples were analyzed for TCL VOCs, 1,4-dioxane, alkalinity, chloride, sulfate, nitrate, nitrite, ferrous iron, sulfide, and total organic carbon (TOC). Two groundwater samples (MW-2 and MW-6) were analyzed for PFAS, TCL SVOCs, TCL PCBs, TCL organochloride pesticides, and TAL metals.

During the 2023 field investigation, groundwater samples were collected and sent to CDM Smith subcontract laboratory, Eurofins TestAmerica, Inc. All groundwater samples were analyzed for TCL VOCs and PFAS. Additionally, groundwater samples collected at newly installed wells (MW-9 through MW-11) were analyzed for alkalinity, chloride, sulfate, nitrate, nitrite, ferrous iron (field kit), sulfide, and TOC. A summary of the monitoring wells sampled, and associated water quality parameters are included in **Table 2-1**. The groundwater sampling purge forms completed during the sampling event are included in **Appendix D**.

2.7 Well Survey

The four on-site monitoring wells installed in June 2021, six existing on-site wells, and one off-site surface water pond were surveyed by C.T. Male Associates, a New York-licensed surveyor, based in North Syracuse, New York on August 18, 2021. Additionally, five off-site groundwater screening locations and three off-site monitoring wells installed in March 2023 were surveyed by C.T. Male Associates on April 4, 2023. All surveyed monitoring wells and the surface water pond are shown on **Figure 2-1**. Ground surface and measuring-point elevations, as well as spatial coordinates, were collected during the survey. The horizontal datum used to measure the spatial coordinates was North American Datum 1983. The vertical datum used to measure elevations was North American Vertical Datum 1988 (NAVD88). A comprehensive list of surveyed coordinates and elevations for are reported in **Table 2-2**.

2.8 Control of Investigation Derived Waste

Investigation derived waste (IDW) generated from field activities consisted of soil and groundwater from DPT borings, well installation and development, and groundwater sampling. Both purge water and soil were stored in 55-gallon open-top drums. On October 12, 2021, NYSDEC treated the containerized purge water from 2021 field investigation activities on-site using a portable granular activated carbon unit. The treated water was discharged to the ground. NYSDEC removed the empty drums which had contained purge water from the Site. Drums containing soil IDW and decontamination pad material were staged on-site. The soil IDW was removed off-site by Seacoast Environmental Services Inc. of Holmdel, New Jersey on February 2, 2022. Drums containing purge water and soil IDW generated during the 2023 field investigation activities were removed off-site by Hazardous Waste Experts of Fitchburg, Wisconsin on September 26, 2023.

2.9 Decontamination Procedures

All non-dedicated equipment and tools used to collect samples for chemical analysis were decontaminated per CDM Smith Generic QAPP (May 2020) and all associated standards operating procedures. Decontamination fluids were containerized in drums staged in a secure location until they could be disposed of appropriately.

2.10 Field Documentation

Field notebooks were used to document all Site activities. A dedicated field notebook was maintained by the field technician overseeing the Site activities throughout each phase of work at all times. Additional field documentation including log notes and chains-of-custody are provided in **Appendix C**.

2.11 Quality Assurance/Quality Control

2.11.1 Laboratory Analysis and Validation

All samples were analyzed by laboratories approved through the New York State Department of Health Environmental Laboratory Approval Program (ELAP): Eurofins TestAmerica, Inc. – Buffalo (New York ELAP Identification Number: 10026), Eurofins TestAmerica, Inc. – Burlington (New York ELAP Identification Number: 10391), and Eurofins TestAmerica, Inc. – Lancaster (New York ELAP Identification Number: 10670).

All 2021 soil and groundwater samples were analyzed for TCL VOCs, PFAS, and 1,4-dioxane. Additionally, all 2021 groundwater samples were analyzed for monitored natural attenuation (MNA) parameters (alkalinity, chloride, sulfate, nitrate, nitrite, ferrous iron, sulfide, and TOC). A subset of 2021 soil and groundwater samples were analyzed for TCL SVOCs, PCBs, pesticides, and TAL metals.

Samples were analyzed by the following methods during the 2021 field investigation:

- VOCs by USEPA SW-846 Method 8260C
- SVOCs by USEPA SW-846 Method 8270D

- PCBs by USEPA SW-846 Method 8082A
- Pesticides by USEPA SW-846 Method 8081B
- Metals by USEPA SW-846 Method 6010C
- PFAS by modified USEPA Method 537
- 1,4-Dioxane by USEPA SW-846 8270D Selected Ion Monitoring (groundwater) and 8270D (soil)
- Alkalinity by Standard Method (SM) 2320B
- Chloride by SM 4500 Cl-E
- Sulfate by ASTM D516-90
- Nitrate by USEPA Method 353.2
- Nitrite by USEPA Method 353.2
- Ferrous iron by SM 3500-Fe D
- Sulfide by SM 4500-S^2 F
- TOC by USEPA SW-846 Method 9060A

All 2023 groundwater samples were analyzed for TCL VOCs and PFAS. Additionally, a subset of groundwater samples selected for MNA parameters were analyzed for alkalinity, chloride, nitrate, sulfate, sulfide, and TOC. Ferrous iron was also analyzed via field test kit during the 2023 field investigation.

Groundwater samples were analyzed by the following methods during the 2023 field investigation:

- VOCs by USEPA SW-846 Method 8260C
- PFAS by USEPA Draft Method 1633
- Alkalinity by SM 2320B
- Chloride by USEPA Method 300.0
- Sulfate by USEPA Method 300.0
- Nitrate by USEPA Method 353.2
- Nitrite by USEPA Method 353.2
- Sulfide by SM 4500-S^2 F
- TOC by SM 5310

- Ferrous Iron by Hach Method 8146 (field kit)

Eurofins TestAmerica, Inc. – Burlington analyzed PFAS samples for both soil and groundwater in 2021. Eurofins TestAmerica, Inc. – Lancaster analyzed PFAS samples for groundwater in 2023. Eurofins TestAmerica, Inc. – Buffalo analyzed all other samples in both 2021 and 2023. Laboratory analytical packages are provided in **Appendix E**.

The analysis for groundwater and soil samples achieved the detection limits discussed in the CDM Smith Generic QAPP dated May 2020, except for groundwater from MW-5 which required dilution due to elevated concentrations of VOCs. As PCE, TCE, *cis*-1,2-DCE, and vinyl chloride were present within MW-5 groundwater at levels above the detection limits in 2021 samples, the dilution had no impact on data quality for Site-related contaminants. For 2023 samples, vinyl chloride was not detected at MW-5, but this may be due to the increase in detection limit as a result of the required dilution.

In April 2023, nitrate and nitrite analyses were performed outside the analytical holding time by approximately eight hours for groundwater samples collected at MW-9, MW-10, and MW-11 due to a laboratory error. Additionally, PFAS samples collected at MW-9, MW-10, and MW-11 arrived at the subcontract laboratory at a temperature outside the required temperature criterion due to a shipping delay from the Eurofins TestAmerica, Inc. Buffalo laboratory to the Eurofins TestAmerica, Inc. Lancaster laboratory. These issues were taken into consideration during data validation and ultimately did not impact usability of these data.

In accordance with the NYSDEC-approved scope of work, data collected during this RI were validated by subcontract validators. Vali-Data of Western New York, based in Buffalo, New York, validated all analytical data collected in 2021 and Environmental Data Services, based in Palm Beach Gardens, Florida, validated all analytical data collected in 2023. Data usability summary reports (DUSRs) provided by both validators are included in **Appendix F**.

DUSRs for data collected in 2021 were prepared in compliance with the USEPA National Functional Guidelines; Guidelines for Sampling and Analysis of PFAS (NYSDEC 2021); and NYSDEC Analytical Services Protocols. DUSRs for data collected in 2023 were prepared in compliance with the USEPA SOP Number HW-33A, Revision 1: Low/Medium Volatile Data Validations (USEPA September 2016); and USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (USEPA November 2018).

2.11.2 Duplicate Samples

QA/QC samples commonly include a duplicate sample to evaluate laboratory repeatability. **Table 2-1** presents each duplicate and its parent sample for the samples collected during the RI field event.

Field duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples were collected at a rate of 1 per 20 samples throughout the field program. Appropriate chain-of-custody procedures were implemented, and QA/QC samples were collected in conjunction with the environmental sampling as defined in the CDM Smith Generic QAPP (May 2020). NYSDEC Analytical Services Protocol Category B data deliverables were obtained for all analyses except waste characterization analyses. The analytical data packages are provided in **Appendix E**.

One duplicate soil sample and one duplicate groundwater sample were collected during the 2021 RI field event. The relative percent difference (RPD) values were calculated for field samples and duplicates to evaluate precision, or the reproducibility of a measurement. RPD acceptance criteria typically range between 25 percent and 50 percent for groundwater samples and 35 percent and 60 percent for soil samples. One analyte, dichlorodiphenyldichloroethylene (DDE), had an RPD that exceeded the maximum 50 percent acceptable limit for groundwater in the duplicate pair collected at MW-6. DDE had an RPD of 100 percent, but detections were extremely low (0.042 J µg/L and 0.014 J µg/L in the regular and field duplicate samples, respectively). Three metals (calcium, copper, and manganese), two pesticides (*cis*-chlordane and *trans*-chlordane), and ten SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene) had RPDs that exceeded the maximum 60 percent acceptable limit for soil in the duplicate pair collected at BS-11 from 13 to 14 feet bgs. The metals RPDs ranged from 67.5 to 93.9 percent, pesticides RPDs ranged from 118.8 to 121.8 percent, and SVOCs RPDs ranged from 84.3 to 123.6 percent. Large RPDs are typically associated with very low concentrations in both the parent and duplicate samples and the heterogeneous distribution of analytes in soil samples. The analytes with RPDs outside of the acceptable range are not considered to be Site-related contaminants. Therefore, data were considered to be acceptable for use based on RPDs. Calculations were not performed for duplicate pairs with a detection of a compound in only one of the samples.

Two duplicate groundwater samples were collected during the 2023 RI field event, one during the groundwater screening sampling and one during the monitoring well sampling. The RPD values were calculated by Environmental Data Services (i.e., the 2023 data validator) for field samples and duplicates to evaluate precision, or the reproducibility of a measurement, and are presented in the associated DUSRs in **Appendix F**. Based on these RPD values, all 2023 data were considered to be acceptable for use in this RI.

2.11.3 Field and Trip Blanks

Field blanks are collected to evaluate the efficacy of equipment decontamination and general cleanliness of the field procedures, and trip blanks are collected to evaluate whether samples were contaminated by ambient conditions during transit. Because all groundwater sampling equipment was dedicated in both the 2021 and 2023 groundwater sampling events, one field blank was collected from clean tubing used to sample groundwater screening locations and monitoring wells during each sampling event. Trip blanks were collected at a rate of one trip blank per sample shipment during each sampling event sampling.

Field blanks for the sample equipment were collected by running the laboratory supplied analyte free water over through the clean tubing used during sampling. A total of five field blanks were collected throughout the field program (one in 2021 and four in 2023). Two VOCs (methylene chloride and di-n-butyl phthalate) were detected in the field blank associated with groundwater sampling in 2021. One VOC (chloroform) was detected in one of the four field blanks associated with groundwater sampling in 2023. These compounds detected in the field blanks are common laboratory contaminants and therefore had no impact on the sample results. No other compounds were detected in the field blanks.

A total of five trip blanks were analyzed throughout the field program. A trip blank collected during the groundwater screening investigation in 2023 had a detection of chloroform above the reporting limit; affected samples were qualified accordingly. All other VOCs analyzed for this trip blank, and for all other trip blanks during this field program, were below the reporting limit and had no impact on the sample results.

2.11.4 Equipment Calibration and Maintenance

Each piece of field equipment used for measuring, monitoring, or analytical purposes was calibrated and maintained periodically to assure accuracy within specified limits. Calibration and maintenance procedures, in addition to calibration frequency for most field equipment follow both manufacturers' recommendations and those stipulated in the reference analytical methods used. The calibration procedures for all field equipment used during the RI were performed in accordance with manufacturer's recommended methods. Equipment calibration and maintenance procedures were followed in accordance with the CDM Smith Generic QAPP (May 2020).

2.11.5 Sample Packaging, Shipping, and Custody

The shipping containers (coolers) were provided by the laboratory providing the analysis. These containers, once filled, were secured with fiber tape, wrapped entirely around the container and were picked up by the lab courier or dropped off at the laboratory by the field team. Sample packaging procedures were followed in accordance with the CDM Smith Generic QAPP (May 2020) to guard against sample breakage and to maintain chain-of-custody.

Each sample submitted for analysis was properly documented to ensure timely, correct, and complete analysis for all parameters requested and to support the use of analytical data in potential enforcement actions. Sample custody procedures were followed in accordance with the CDM Smith Generic QAPP (May 2020).

Section 3

Physical Characteristics of the Study Area

This section describes physical characteristics of the study, including topography, geology, and hydrogeology, that may have an effect on transport of Site-related contaminants.

3.1 Topography and Drainage

The Site is located in the Irondequoit Creek Valley which runs north-south. The topography is generally flat at an elevation of 435 feet NAVD88. The elevation drops by approximately 10 feet towards the northern 30 feet of the Site. The surrounding areas slope from approximately 435 feet NAVD88 at the Site to 400 feet NAVD88 northeast of the Site. West of the Site, the land rises to 555 feet NAVD88 (NYSDEC 2003).

3.2 Regional Geology and Hydrogeology

The Site is located within the glaciated Appalachian basin. A history of glaciation, erosion, and the advancing and retreating of ice sheets spanning the Pleistocene Period is reflected in the present-day geology of Monroe County, Rochester, New York (Liebe & Grasso 1988).

3.2.1 Unconsolidated Sedimentary Deposits

Unconsolidated upper Pleistocene deposits unconformably overlie the bedrock in Pittsford, New York. The generalized surficial geology of Pittsford, New York in the vicinity of the Site is presented on **Figure 3-1**. Pittsford is characterized by deposits of lacustrine silts, sands, and clays (NYSDEC 2003) and glacial till. Primarily sands, clays, and gravel overlie the bedrock in the vicinity of the Site.

3.2.2 Bedrock

The Site is located near the contact of the Upper Silurian Vernon Shale and the Lockport group. The bedrock surface in this region is expected to be between 100 and 150 feet bgs. The generalized bedrock geology of Pittsford, New York in the vicinity of the Site is presented on **Figure 3-2**.

3.2.3 Hydrogeology

Regional groundwater flow is generally north towards Lake Ontario. Shallow groundwater may discharge into a small drainage basin/pond located approximately 100 feet north of the Site. According to the United States Geological Survey (USGS) national water resource tracking system, there are three private wells within one mile of the Site. The wells vary in depth from 48 to 100 feet bgs. During the PSA, Harding Law Associates contacted Environmental Data Resources, Inc., the source of the information, and the USGS, but no information on the current use of the wells was available. The water supply for the Town of Pittsford is Lake Ontario (NYSDEC 2003).

I-590

Monroe Avenue

Speedy's Cleaners Site

Legend

Site Boundary

Surficial Geology Material (Material description; Thickness in meters)

Lacustrine silt and clay (Generally laminated silt and clay; 0-50 meters)

Till (Variable texture (boulders to silt); 1-50 meters)

Note:
1. Finger Lakes surficial geology is provided by the New York State Museum.
   Website: http://www.nysm.nysed.gov/research-collections/geology/gis.
   Last accessed on September 30, 2021.

1 inch = 906 feet

0 500 1,000 2,000 *Feet*

N

Figure 3-1
Regional Surficial Geology
Speedy's Cleaners Site
Pittsford, New York

CDM Smith

wertwa F:\Speedy's Cleaners\GIS\MXD\Figure 3-1 Regional Surficial Geology.mxd 10/18/2021



Note:
1. Finger Lakes bedrock geology is provided by the New York State Museum.
Website: http://www.nysm.nysed.gov/research-collections/geology/gis.
Last accessed on September 30, 2021.

1 inch = 906 feet

0 500 1,000 2,000 *Feet*

N

Figure 3-2
Regional Bedrock Geology
Speedy's Cleaners Site
Pittsford, New York

CDM Smith

wertwa F:\Speedy's Cleaners\GIS\MXD\Figure3-2 Regional Bedrock Geology.mxd 10/18/2021

3.3 Site Geology

The Site is underlain by up to 2 feet of fill material, while up to 0.5 feet of fill material exists to the northeast of the Site. Directly below the fill are lacustrine deposits and glacial till. The lithologic borings advanced to approximately 19 feet bgs as part of the RI confirm that these sediments below the fill are primarily silty clay with sands and gravel with little permeability. Boring refusals were assumed to be in dense glacial till. Lithologic boring logs from the RI are included in **Appendix B**, along with lithologic boring logs from existing wells.

3.3.1 Fill

A layer of fill material up to 2 feet thick on-site and up to 0.5 feet thick off-site makes up the shallow subsurface of the Site and area northeast of the Site. Fill material is made up of sand, gravel, organic material, and miscellaneous fill material including asphalt.

3.3.2 Lacustrine Deposits

Lacustrine deposits, which extend from 1 to 2 feet bgs to at least 14 feet bgs on-site and from 0 to 5.5 feet bgs to 6.5 to 13.5 feet bgs off-site overlie the glacial till unit. This deposits unit consists of gray to brown, well graded, medium to coarse sand with some silt on-site and tan to brown silt with some fine sand and angular gravel off-site. Clay units encountered consisted of brown to dark brown, slightly to moderately plastic clays. At the base of the deepest lithologic borings (19 feet bgs at MW-5 and 19.1 feet bgs at MW-9), 2 feet of densely packed till was encountered.

3.3.3 Glacial Till

A glacial till unit begins at approximately 14 feet bgs on-site and approximately 6.5 to 13 feet bgs off-site and is primarily made up of gray to brown, moderately plastic, densely packed clay with varying amounts of sand and gravel throughout. The DPT borings encountered refusal from the glacial till between 14 and 19 feet bgs during the 2021 on-site field activities and between 8 and 19 feet bgs during the 2023 off-site field activities.

3.4 Site Hydrogeology

Site hydrogeology was evaluated using knowledge of regional hydrogeology and data collected from two rounds of synoptic water level measurements, the first in August 2021 and a second in April 2023. The groundwater table is located approximately 4 to 12 feet bgs within the lacustrine deposits. The densely packed, low permeability nature of the glacial till limits groundwater flow through that layer. Groundwater elevations collected during the 2021 field activities are presented in **Table 2-3** Additionally, groundwater elevations collected during the 2023 field activities are presented in **Table 2-4**.

3.4.1 Groundwater Flow

Topography, utilities, and commercial use of the land all contribute to the flow direction to the north where groundwater ultimately discharges to Lake Ontario (NYSDEC 2003). The shallow potentiometric surface based on wells screened across the water table from the two most recent rounds of synoptic water level measurements (collected on August 18, 2021 and April 4, 2023) are presented on **Figures 3-3** and **Figure 3-4**, respectively. The potentiometric surface shown on **Figure 3-3** was contoured using the water levels collected from four wells installed in 2021 (MW-

5 through MW-8), six existing monitoring wells, and a surface water pond. The potentiometric surface shown on **Figure 3-4** was contoured using the water levels collected from three newly installed off-site wells (MW-9 through MW-11), four wells installed in 2021 (MW-5 through MW-8), and six existing monitoring wells. Water levels were collected at wells installed in 2021 and 2023 and at existing wells to provide sufficient coverage to contour the potentiometric surface. During the 2021 field activities, CDM Smith and the surveyor attempted to locate MW-4, an existing well located hydraulically downgradient of the Site on the Oak Hill Country Club property. This flush mount well was not located due to heavy vegetation and potential burial. Therefore, a surface water elevation was surveyed at the pond located on the Oak Hills Country Club to obtain a water level elevation that was hydraulically downgradient of the Site for the 2021 round of synoptic water level measurements. Hydraulically downgradient water level elevations were obtained from the newly installed off-site wells for the 2023 round of synoptic water level measurements.

As shown in **Figure 3-3**, groundwater elevations in the vicinity of the Site generally ranged from approximately 427 feet NAVD88 in the northern portion of the Site to approximately 433 feet NAVD88 in the southern portions of the Site in August 2021. In April 2023, groundwater elevations ranged from approximately 428 feet NAVD88 in the northeast of the Site to approximately 435 feet NAVD88 in the southern portions of the Site as shown on **Figure 3-4**. Apparent groundwater flow directions based on contouring the data indicate that groundwater moves laterally from the MW-2 area of the Site, ultimately exiting from the northern portion of the Site and flowing northeast onto the Oak Hill Country Club property.

3.4.2 Hydraulic Conductivity

No Site-specific hydraulic conductivity testing has been performed at the Site. A typical range for a glacial till is 0.000000283 feet per day (ft/day) to 0.567 ft/day, with expected values in the lower portion of this range. A typical value for silty lacustrine deposits ranges from 0.000283 ft/day to 5.669 ft/day (Domenico & Schwartz 1990).



Note:
1. Groundwater elevations were calculated based on synoptic water level measurements collected on August 18, 2021.
2. The groundwater elevations are in North American Vertical Datum 1988.

1 inch = 33 feet

0 15 30 60 Feet

N

Figure 3-3
Potentiometric Surface Contours - August 2021
Speedy's Cleaners Site Pittsford, New York

CDM Smith

wertwa F:\Speedy's Cleaners\GIS\MXD\Figure3-3 Potentiometric Contour Surface.mxd 10/20/2021



Note:
1. Groundwater elevations were calculated based on synoptic water level measurements collected on April 4, 2023.
2. The groundwater elevations are in North American Vertical Datum 1988.

1 inch = 33 feet

0 15 30 60 Feet

N

Figure 3-4
Potentiometric Surface Contours - April 2023
Speedy's Cleaners Site
Pittsford, New York

CDM Smith

wertwa F:\Speedy's Cleaners\GIS\MXD\Figure 3-4 Potentiometric Contour Surface - 2023.mxd 7/19/2023

This page intentionally left blank.

Section 4

Nature and Extent of Contamination

This section describes and evaluates the nature and extent of Site-related contamination based on the analytical data collected during the RI field investigation. Sections 4.1 and 4.2 describe the selection of Site-related contaminants and screening criteria, reports the results of the field investigation focusing on exceedances of Site-specific screening criteria, and presents an interpretation of the data and an overall evaluation of Site-related contamination. Section 4.1 focuses on groundwater, while Section 4.2 focuses on soils.

4.1 Impacts to Groundwater

4.1.1 Selection of Standards, Criteria, and Guidance

Relevant New York State standards, criteria, and guidance (SCGs) were reviewed for each media sampled and screening criteria for the Site were selected. The groundwater analytical results were compared to the New York State AWQS and Guidance Values for Class GA Groundwater (herein referred to as NYSDEC AWQS) (NYSDEC Technical Operation Guidance Standards [TOGS] 1.1.1).

4.1.2 Site-Related Contaminants

Contaminants focused on during this investigation were PCE and its degradation products, TCE, *cis*-1,2-DCE, and vinyl chloride. These four VOCs are considered Site-related contaminants. Additionally, due to their characterization as emerging contaminants, PFAS were analyzed in samples collected in both 2021 and 2023 and 1,4-dioxane was analyzed in samples collected in 2021. PFAS are considered Site-related contaminants because these contaminants are co-located with the Site-related VOCs and have elevated groundwater concentrations hydraulically downgradient of the building. Conversely, 1,4-dioxane was not detected in soil and groundwater hydraulically downgradient of the building; therefore, this compound is not considered a Site-related contaminant.

CDM Smith reviewed the analytical data collected from groundwater sample locations during a 1999 extent of contamination investigation, the 2002 PSA, and the 2005 FER; analyzed the historical spatial distribution of contamination and detection frequencies/levels for the Site; and compared those results to data collected in 2021 and 2023 in support of this RI. While VOCs were analyzed in the PSA dataset, PFAS and 1,4-dioxane were not; therefore, comparisons between historical and current datasets cannot be made for these contaminants.

4.1.2.1 Historical Groundwater Data

In 1999, a groundwater sample (BH-9) was collected to the west of the north corner of the Speedy's Cleaners building (see Figure A-1 in **Appendix A**). Vinyl chloride, the only VOC detected in the sample, was present at a concentration of 1,217 µg/L, three orders of magnitude above the NYSDEC AWQS of 2 µg/L (NYSDEC 2003).

During the PSA conducted in 2002, groundwater samples were co-located with soil samples, and groundwater sampling locations were referred to as water borings. Soil sampling locations were referred to as soil borings. All Site-related compounds exceeded the NYSDEC AWQS (5 µg/L for PCE, TCE, and *cis*-1,2-DCE) in at least 4 of 11 water boring locations. Site-related compound detection and exceedance frequencies are as follows:

- PCE – detections at 8 of 11 locations; exceedances at 7 of 11 locations
- TCE – detections at 5 of 11 locations; exceedances at 4 of 11 locations
- *cis*-1,2-DCE – detections at 9 of 11 locations; exceedances at 6 of 11 locations
- Vinyl chloride – detections at 7 of 11 locations; exceedances at 7 of 11 locations

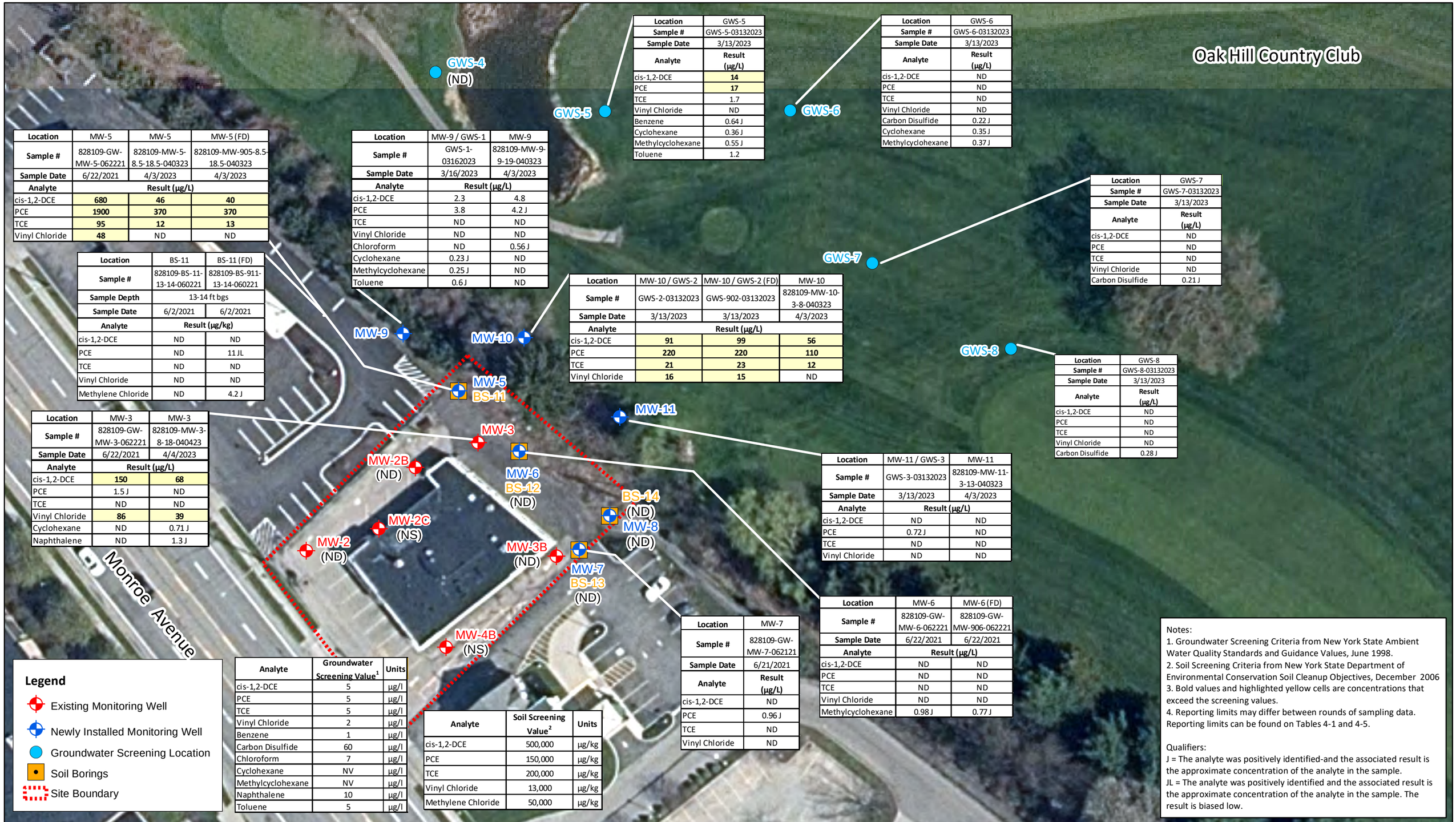
The majority of detections and highest concentrations of Site-related compounds occurred in groundwater collected from water borings located in the northern portion of the Site within a potential source area of contamination, the location where dry cleaning filters were cleaned (see Figure A-2 in **Appendix A**). Concentrations were highest at sample locations adjacent to the north corner of the building (BW-4, BW-7/MW-3, BW-9), remained high to the north of the north corner (BW-6), and decreased to the east (BW-3, BW-5), west (BW-10), and south (BW-8) of this area. The concentration of PCE was highest at BW-4 (5,900 µg/L), and concentrations of TCE, *cis*-1,2-DCE, and vinyl chloride were highest at BW-9 (580 µg/L, 64,000 µg/L, and 9,200 µg/L, respectively). Samples collected from along the northwestern, southwestern, and southeastern walls of the building (BW-1, BW-2/MW-2B, PA-1) had few, if any, detections and no exceedances of Site-related compounds (NYSDEC 2003).

Other detected compounds included *trans*-1,2-DCE, 1,1-DCE, toluene, ethylbenzene, m, p-xylene, and o-xylene, and each compound exceeded its respective NYSDEC AWQS in at least one water boring location. Detections of these compounds followed a similar pattern as PCE and its degradation products (NYSDEC 2003). Water boring sample locations and Site-related concentrations are displayed on Figure A-2 in **Appendix A**.

During groundwater sampling conducted in 2005 in support of the FER (NYSDEC DER 2012), VOCs and SVOCs were analyzed at wells MW-1B (since abandoned), MW-2B, MW-3B, and MW-4B (see Figure A-3 in **Appendix A** and **Table 1-1** for monitoring well ID key). No compounds were detected at MW-2B, located directly west of the north corner of the building. PCE was detected at two of the four sampled wells (64 B µg/L and 94 B µg/L at MW-1B and MW-3B, respectively), and TCE was detected at one of the four sampled wells (30 µg/L in MW-1B; NYSDEC DER 2012).

4.1.2.2 On-Site Groundwater Data

During the 2021 RI field investigation activities, CDM Smith collected groundwater samples from four existing (MW-2, MW-2B, MW-3, and MW-3B) and four newly installed on-site wells (MW-5 through MW-8). All samples were analyzed for VOCs, 1,4-dioxane, and MNA parameters. Samples from a subset of wells (MW-2 and MW-6) were analyzed for PFAS, SVOCs, pesticides, PCBs, and metals. During the 2023 RI field investigation activities, CDM Smith collected groundwater samples from two on-site monitoring wells (MW-3 and MW-5). All samples were analyzed for VOCs and PFAS. VOC results and exceedances of the NYSDEC AWQS are presented in **Figure 4-1** and **Table 4-1**.



Location	GWS-5
Sample #	GWS-5-03132023
Sample Date	3/13/2023
Analyte	Result (µg/L)
cis-1,2-DCE	**14**
PCE	**17**
TCE	1.7
Vinyl Chloride	ND
Benzene	0.64 J
Cyclohexane	0.36 J
Methylcyclohexane	0.55 J
Toluene	1.2

Location	GWS-6
Sample #	GWS-6-03132023
Sample Date	3/13/2023
Analyte	Result (µg/L)
cis-1,2-DCE	ND
PCE	ND
TCE	ND
Vinyl Chloride	ND
Carbon Disulfide	0.22 J
Cyclohexane	0.35 J
Methylcyclohexane	0.37 J

Location	MW-5	MW-5	MW-5 (FD)
Sample #	828109-GW-MW-5-062221	828109-MW-5-8.5-18.5-040323	828109-MW-905-8.5-18.5-040323
Sample Date	6/22/2021	4/3/2023	4/3/2023
Analyte	Result (µg/L)		
cis-1,2-DCE	**680**	**46**	**40**
PCE	**1900**	**370**	**370**
TCE	**95**	**12**	**13**
Vinyl Chloride	**48**	ND	ND

Location	MW-9 / GWS-1	MW-9
Sample #	GWS-1-03162023	828109-MW-9-9-19-040323
Sample Date	3/16/2023	4/3/2023
Analyte	Result (µg/L)	
cis-1,2-DCE	2.3	4.8
PCE	3.8	4.2 J
TCE	ND	ND
Vinyl Chloride	ND	ND
Chloroform	ND	0.56 J
Cyclohexane	0.23 J	ND
Methylcyclohexane	0.25 J	ND
Toluene	0.6 J	ND

Location	BS-11	BS-11 (FD)
Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221
Sample Depth	13-14 ft bgs	
Sample Date	6/2/2021	6/2/2021
Analyte	Result (µg/kg)	
cis-1,2-DCE	ND	ND
PCE	ND	11 JL
TCE	ND	ND
Vinyl Chloride	ND	ND
Methylene Chloride	ND	4.2 J

Location	MW-10 / GWS-2	MW-10 / GWS-2 (FD)	MW-10
Sample #	GWS-2-03132023	GWS-902-03132023	828109-MW-10-3-8-040323
Sample Date	3/13/2023	3/13/2023	4/3/2023
Analyte	Result (µg/L)		
cis-1,2-DCE	**91**	**99**	**56**
PCE	**220**	**220**	**110**
TCE	**21**	**23**	**12**
Vinyl Chloride	**16**	**15**	ND

Location	GWS-7
Sample #	GWS-7-03132023
Sample Date	3/13/2023
Analyte	Result (µg/L)
cis-1,2-DCE	ND
PCE	ND
TCE	ND
Vinyl Chloride	ND
Carbon Disulfide	0.21 J

Location	GWS-8
Sample #	GWS-8-03132023
Sample Date	3/13/2023
Analyte	Result (µg/L)
cis-1,2-DCE	ND
PCE	ND
TCE	ND
Vinyl Chloride	ND
Carbon Disulfide	0.28 J

Location	MW-3	MW-3
Sample #	828109-GW-MW-3-062221	828109-MW-3-8-18-040423
Sample Date	6/22/2021	4/4/2023
Analyte	Result (µg/L)	
cis-1,2-DCE	**150**	**68**
PCE	1.5 J	ND
TCE	ND	ND
Vinyl Chloride	**86**	**39**
Cyclohexane	ND	0.71 J
Naphthalene	ND	1.3 J

Location	MW-11 / GWS-3	MW-11
Sample #	GWS-3-03132023	828109-MW-11-3-13-040323
Sample Date	3/13/2023	4/3/2023
Analyte	Result (µg/L)	
cis-1,2-DCE	ND	ND
PCE	0.72 J	ND
TCE	ND	ND
Vinyl Chloride	ND	ND

Location	MW-6	MW-6 (FD)
Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221
Sample Date	6/22/2021	6/22/2021
Analyte	Result (µg/L)	
cis-1,2-DCE	ND	ND
PCE	ND	ND
TCE	ND	ND
Vinyl Chloride	ND	ND
Methylcyclohexane	0.98 J	0.77 J

Location	MW-7
Sample #	828109-GW-MW-7-062121
Sample Date	6/21/2021
Analyte	Result (µg/L)
cis-1,2-DCE	ND
PCE	0.96 J
TCE	ND
Vinyl Chloride	ND

Legend

- Existing Monitoring Well
- Newly Installed Monitoring Well
- Groundwater Screening Location
- Soil Borings
- Site Boundary

Analyte	Groundwater Screening Value[1]	Units
cis-1,2-DCE	5	µg/l
PCE	5	µg/l
TCE	5	µg/l
Vinyl Chloride	2	µg/l
Benzene	1	µg/l
Carbon Disulfide	60	µg/l
Chloroform	7	µg/l
Cyclohexane	NV	µg/l
Methylcyclohexane	NV	µg/l
Naphthalene	10	µg/l
Toluene	5	µg/l

Analyte	Soil Screening Value[2]	Units
cis-1,2-DCE	500,000	µg/kg
PCE	150,000	µg/kg
TCE	200,000	µg/kg
Vinyl Chloride	13,000	µg/kg
Methylene Chloride	50,000	µg/kg

Notes:
1. Groundwater Screening Criteria from New York State Ambient Water Quality Standards and Guidance Values, June 1998.
2. Soil Screening Criteria from New York State Department of Environmental Conservation Soil Cleanup Objectives, December 2006
3. Bold values and highlighted yellow cells are concentrations that exceed the screening values.
4. Reporting limits may differ between rounds of sampling data. Reporting limits can be found on Tables 4-1 and 4-5.

Qualifiers:
J = The analyte was positively identified-and the associated result is the approximate concentration of the analyte in the sample.
JL = The analyte was positively identified and the associated result is the approximate concentration of the analyte in the sample. The result is biased low.

Acronyms:
cis-1,2-DCE - cis-1,2-dichloroethene
FD - field duplicate
NS = not sampled
ND = non-detect
PCE - tetrachloroethene
TCE - trichloroethene
VOCs = volatile organic compounds

Units:
µg/kg - microgram per kilogram
µg/L = micrograms per liter

1 inch = 45 feet

0 20 40 80 Feet

N

CDM Smith

awertwa F:\Speedy's Cleaners\GIS\MXD\Figure4-1 VOC Detections in GW_2021-2023.mxd 7/19/2023

Figure 4-1
VOC Detections and Exceedances in Soil and Groundwater
Speedy's Cleaners Site
Pittsford, New York

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-2	MW-2B	MW-3	MW-3	MW-3B	MW-5	MW-5	MW-5
			Sample #	828109-GW-MW-2-062121	828109-GW-MW-2B-062321	828109-GW-MW-3-062221	828109-MW-3-8-18-040423	828109-GW-MW-3B-062121	828109-GW-MW-5-062221	828109-MW-5-8.5-18.5-040323	828109-MW-905-8.5-18.5-040323
			Start Depth	3.9	N/A	7.9	8	N/A	8.5	8.5	8.5
			End Depth	13.9	N/A	17.9	18	N/A	18.5	18.5	18.5
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N	N	FD
			Parent Sample #								828109-MW-5-8.5-18.5-040323
			Sample Date	6/21/2021	6/23/2021	6/22/2021	4/4/2023	6/21/2021	6/22/2021	4/3/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**								
VOCs											
1,1,1-Trichloroethane	71-55-6	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,1,2,2-Tetrachloroethane	79-34-5	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,1,2-Trichloroethane	79-00-5	1	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,1-Dichloroethane	75-34-3	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,1-Dichloroethene	75-35-4	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,2,4-Trichlorobenzene	120-82-1	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,2,4-Trimethylbenzene	95-63-6	5	µg/L				2 U			10 U	10 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,2-Dibromoethane	106-93-4	0.0006	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,2-Dichlorobenzene	95-50-1	3	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,2-Dichloroethane	107-06-2	0.6	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,2-Dichloropropane	78-87-5	1	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	µg/L				2 U			10 U	10 U
1,3-Dichlorobenzene	541-73-1	3	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
1,4-Dichlorobenzene	106-46-7	3	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
2-Butanone	78-93-3	50	µg/L	10 U	40 U	40 U	20 U	10 U	400 U	100 U	100 U
2-Hexanone	591-78-6	50	µg/L	5 U	20 U	20 U	10 U	5 U	200 U	50 U	50 U
4-Methyl-2-pentanone	108-10-1	--	µg/L	5 U	20 U	20 U	10 U	5 U	200 U	50 U	50 U
Acetone	67-64-1	50	µg/L	10 U	40 U	40 U	20 U	10 U	400 U	100 U	100 U
Benzene	71-43-2	1	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Bromodichloromethane	75-27-4	50	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Bromoform	75-25-2	50	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Bromomethane	74-83-9	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Carbon Disulfide	75-15-0	60	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Carbon Tetrachloride	56-23-5	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Chlorobenzene	108-90-7	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Chloroethane	75-00-3	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Chloroform	67-66-3	7	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Chloromethane	74-87-3	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
cis-1,2-Dichloroethene	156-59-2	**5**	µg/L	1 U	4 U	**150**	**68**	1 U	**680**	**46**	**40**
cis-1,3-Dichloropropene	10061-01-5	0.4	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Cyclohexane	110-82-7	--	µg/L	1 U	4 U	4 U	**0.71 J**	1 U	40 U	10 U	10 U
Cymene	99-87-6	5	µg/L				2 U			10 U	10 U
Dibromochloromethane	124-48-1	50	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Dichlorodifluoromethane	75-71-8	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Ethylbenzene	100-41-4	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Isopropylbenzene	98-82-8	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
m,p-Xylene	179601-23-1	5	µg/L				4 U			20 U	20 U
Methyl acetate	79-20-9	--	µg/L	2.5 U	10 U	10 U	5 U	2.5 U	100 U	25 U	25 U
Methyl tert-Butyl Ether	1634-04-4	10	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Methylcyclohexane	108-87-2	--	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Methylene Chloride	75-09-2	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
Naphthalene	91-20-3	10	µg/L				**1.3 J**			10 U	10 UJ
N-Butylbenzene	104-51-8	5	µg/L				2 U			10 U	10 U
N-Propylbenzene	103-65-1	5	µg/L				2 U			10 U	10 U
o-Xylene	95-47-6	5	µg/L				2 U			10 U	10 U
Sec-Butylbenzene	135-98-8	5	µg/L				2 U			10 U	10 U
Styrene	100-42-5	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U
T-Butylbenzene	98-06-6	5	µg/L				2 U			10 U	10 U
Tetrachloroethene	127-18-4	**5**	µg/L	1 U	4 U	**1.5 J**	2 U	1 U	**1900**	**370**	**370**

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

				Location	MW-2	MW-2B	MW-3	MW-3	MW-3B	MW-5	MW-5	MW-5
				Sample #	828109-GW-MW-2-062121	828109-GW-MW-2B-062321	828109-GW-MW-3-062221	828109-MW-3-8-18-040423	828109-GW-MW-3B-062121	828109-GW-MW-5-062221	828109-MW-5-8.5-18.5-040323	828109-MW-905-8.5-18.5-040323
				Start Depth	3.9	N/A	7.9	8	N/A	8.5	8.5	8.5
				End Depth	13.9	N/A	17.9	18	N/A	18.5	18.5	18.5
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Type	N	N	N	N	N	N	N	FD
				Parent Sample #								828109-MW-5-8.5-18.5-040323
				Sample Date	6/21/2021	6/23/2021	6/22/2021	4/4/2023	6/21/2021	6/22/2021	4/3/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**									
Toluene	108-88-3	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U	
Total Xylenes	1330-20-7	5	µg/L	2 U	8 U	8 U	4 U	2 U	80 U	20 U	20 U	
trans-1,2-Dichloroethene	156-60-5	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U	
trans-1,3-Dichloropropene	10061-02-6	0.4	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U	
Trichloroethene	79-01-6	**5**	µg/L	1 U	4 U	4 U	2 U	1 U	**95**	**12**	**13**	
Trichlorofluoromethane	75-69-4	5	µg/L	1 U	4 U	4 U	2 U	1 U	40 U	10 U	10 U	
Vinyl Chloride	75-01-4	**2**	µg/L	1 U	4 U	**86**	**39**	1 U	**48**	10 U	10 U	
SVOCs												
1,1'-Biphenyl	92-52-4	5	µg/L	5 U								
1,4-Dioxane (P-Dioxane)	123-91-1	**0.35**	µg/L	0.19 U	**2.9**	0.19 U		0.19 U	0.19 U			
2,2'-Oxybis(1-chloropropane)	108-60-1	5	µg/L	5 U								
2,4,5-Trichlorophenol	95-95-4	--	µg/L	5 U								
2,4,6-Trichlorophenol	88-06-2	--	µg/L	5 U								
2,4-Dichlorophenol	120-83-2	5	µg/L	5 U								
2,4-Dimethylphenol	105-67-9	50	µg/L	5 U								
2,4-Dinitrophenol	51-28-5	10	µg/L	10 U								
2,4-Dinitrotoluene	121-14-2	5	µg/L	5 U								
2,6-Dinitrotoluene	606-20-2	5	µg/L	5 U								
2-Chloronaphthalene	91-58-7	10	µg/L	5 U								
2-Chlorophenol	95-57-8	--	µg/L	5 U								
2-Methylnaphthalene	91-57-6	--	µg/L	5 U								
2-Methylphenol	95-48-7	--	µg/L	5 U								
2-Nitroaniline	88-74-4	5	µg/L	10 U								
2-Nitrophenol	88-75-5	--	µg/L	5 U								
3,3'-Dichlorobenzidine	91-94-1	5	µg/L	5 U								
3-Nitroaniline	99-09-2	5	µg/L	10 U								
4,6-Dinitro-2-methylphenol	534-52-1	--	µg/L	10 U								
4-Bromophenyl-phenylether	101-55-3	--	µg/L	5 U								
4-Chloro-3-methylphenol	59-50-7	--	µg/L	5 U								
4-Chloroaniline	106-47-8	5	µg/L	5 U								
4-Chlorophenyl-phenylether	7005-72-3	--	µg/L	5 U								
4-Methylphenol (P-Cresol)	106-44-5	--	µg/L	10 U								
4-Nitroaniline	100-01-6	5	µg/L	10 U								
4-Nitrophenol	100-02-7	--	µg/L	10 U								
Acenaphthene	83-32-9	20	µg/L	5 U								
Acenaphthylene	208-96-8	--	µg/L	5 U								
Acetophenone	98-86-2	--	µg/L	5 U								
Anthracene	120-12-7	50	µg/L	5 U								
Atrazine	1912-24-9	7.5	µg/L	5 U								
Benzaldehyde	100-52-7	--	µg/L	5 U								
Benzo(a)anthracene	56-55-3	0.002	µg/L	5 U								
Benzo(a)pyrene	50-32-8	--	µg/L	5 U								
Benzo(b)fluoranthene	205-99-2	0.002	µg/L	5 U								
Benzo(g,h,i)perylene	191-24-2	--	µg/L	5 U								
Benzo(k)fluoranthene	207-08-9	0.002	µg/L	5 U								
Bis(2-chloroethoxy)methane	111-91-1	5	µg/L	5 U								
Bis(2-chloroethyl)ether	111-44-4	1	µg/L	5 U								
Bis(2-ethylhexyl)phthalate	117-81-7	5	µg/L	5 U								
Butylbenzylphthalate	85-68-7	50	µg/L	5 U								
Caprolactam	105-60-2	--	µg/L	5 U								
Carbazole	86-74-8	--	µg/L	5 UJ								
Chrysene	218-01-9	0.002	µg/L	5 U								
Dibenzo(a,h)anthracene	53-70-3	--	µg/L	5 U								
Dibenzofuran	132-64-9	--	µg/L	10 U								

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-2	MW-2B	MW-3	MW-3	MW-3B	MW-5	MW-5	MW-5
			Sample #	828109-GW-MW-2-062121	828109-GW-MW-2B-062321	828109-GW-MW-3-062221	828109-MW-3-8-18-040423	828109-GW-MW-3B-062121	828109-GW-MW-5-062221	828109-MW-5-8.5-18.5-040323	828109-MW-905-8.5-18.5-040323
			Start Depth	3.9	N/A	7.9	8	N/A	8.5	8.5	8.5
			End Depth	13.9	N/A	17.9	18	N/A	18.5	18.5	18.5
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N	N	FD
			Parent Sample #								828109-MW-5-8.5-18.5-040323
			Sample Date	6/21/2021	6/23/2021	6/22/2021	4/4/2023	6/21/2021	6/22/2021	4/3/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**								
Diethylphthalate	84-66-2	50	µg/L	5 U							
Dimethylphthalate	131-11-3	50	µg/L	5 U							
Di-n-butylphthalate	84-74-2	50	µg/L	**16 JH**							
Di-n-octylphthalate	117-84-0	50	µg/L	5 U							
Fluoranthene	206-44-0	50	µg/L	5 U							
Fluorene	86-73-7	50	µg/L	5 U							
Hexachlorobenzene	118-74-1	0.04	µg/L	5 U							
Hexachlorobutadiene	87-68-3	0.5	µg/L	5 U							
Hexachlorocyclopentadiene	77-47-4	5	µg/L	5 U							
Hexachloroethane	67-72-1	5	µg/L	5 U							
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	µg/L	5 U							
Isophorone	78-59-1	50	µg/L	5 U							
Naphthalene	91-20-3	10	µg/L	5 U							
Nitrobenzene	98-95-3	0.4	µg/L	5 U							
N-Nitroso-di-n-propylamine	621-64-7	--	µg/L	5 U							
N-Nitrosodiphenylamine	86-30-6	50	µg/L	5 U							
Pentachlorophenol	87-86-5	1	µg/L	10 U							
Phenanthrene	85-01-8	50	µg/L	5 U							
Phenol	108-95-2	1	µg/L	5 U							
Pyrene	129-00-0	50	µg/L	5 U							
Pesticides											
4,4'-DDD	72-54-8	0.3	µg/L	0.05 U							
4,4'-DDE	72-55-9	0.2	µg/L	0.05 U							
4,4'-DDT	50-29-3	0.2	µg/L	0.05 U							
Aldrin	309-00-2	--	µg/L	0.05 U							
alpha-BHC	319-84-6	**0.01**	µg/L	0.05 U							
alpha-Chlordane	5103-71-9	0.05	µg/L	0.05 U							
beta-BHC	319-85-7	0.04	µg/L	0.05 U							
delta-BHC	319-86-8	0.04	µg/L	0.05 U							
Dieldrin	60-57-1	0.004	µg/L	0.05 U							
Endosulfan I	959-98-8	--	µg/L	0.05 U							
Endosulfan II	33213-65-9	--	µg/L	0.05 U							
Endosulfan Sulfate	1031-07-8	--	µg/L	0.05 U							
Endrin	72-20-8	--	µg/L	0.05 U							
Endrin aldehyde	7421-93-4	5	µg/L	0.05 U							
Endrin Ketone	53494-70-5	5	µg/L	0.05 U							
gamma-BHC (Lindane)	58-89-9	0.05	µg/L	0.05 U							
gamma-Chlordane	5103-74-2	0.05	µg/L	0.05 U							
Heptachlor	76-44-8	0.04	µg/L	0.05 U							
Heptachlor Epoxide	1024-57-3	0.03	µg/L	0.05 U							
Methoxychlor	72-43-5	35	µg/L	0.05 U							
Toxaphene	8001-35-2	0.06	µg/L	0.5 U							
PCBs											
Aroclor 1016	12674-11-2	0.09	µg/L	0.52 U							
Aroclor 1221	11104-28-2	0.09	µg/L	0.52 U							
Aroclor 1232	11141-16-5	0.09	µg/L	0.52 U							
Aroclor 1242	53469-21-9	0.09	µg/L	0.52 U							
Aroclor 1248	12672-29-6	0.09	µg/L	0.52 U							
Aroclor 1254	11097-69-1	0.09	µg/L	0.52 U							
Aroclor 1260	11096-82-5	0.09	µg/L	0.52 U							
PFAS											
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	--	ng/L				7.3 U			7.3 U	7.3 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4	--	ng/L				7.3 U			7.3 U	7.3 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	--	ng/L				18 U			18 U	18 U

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-2	MW-2B	MW-3	MW-3	MW-3B	MW-5	MW-5	MW-5
			Sample #	828109-GW-MW-2-062121	828109-GW-MW-2B-062321	828109-GW-MW-3-062221	828109-MW-3-8-18-040423	828109-GW-MW-3B-062121	828109-GW-MW-5-062221	828109-MW-5-8.5-18.5-040323	828109-MW-905-8.5-18.5-040323
			Start Depth	3.9	N/A	7.9	8	N/A	8.5	8.5	8.5
			End Depth	13.9	N/A	17.9	18	N/A	18.5	18.5	18.5
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N	N	FD
			Parent Sample #								828109-MW-5-8.5-18.5-040323
			Sample Date	6/21/2021	6/23/2021	6/22/2021	4/4/2023	6/21/2021	6/22/2021	4/3/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**								
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	--	ng/L				18 U			18 U	18 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	--	ng/L	4.3 U			**1.2 J**			3.7 U	3.7 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	--	ng/L				46 U			46 U	46 U
3-Perfluoroheptyl propanoic acid	812-70-4	--	ng/L				46 U			46 U	46 U
3-Perfluoropropyl propanoic acid	356-02-5	--	ng/L				9.2 U			9.2 U	9.1 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	--	ng/L				7.3 U			7.3 U	7.3 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	--	ng/L				7.3 U			7.3 U	7.3 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	--	ng/L				7.3 U			7.3 U	7.3 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	--	ng/L				1.8 U			1.8 U	1.8 U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	--	ng/L	4.3 U			1.8 U			1.8 U	1.8 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	--	ng/L				1.8 U			1.8 U	1.8 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	--	ng/L				3.7 U			3.7 U	3.7 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	--	ng/L				3.7 U			3.7 U	3.7 U
Perfluoro-3-methoxypropanoic acid	377-73-1	--	ng/L				3.7 U			3.7 U	3.7 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	--	ng/L				3.7 U			3.7 U	3.7 U
Perfluorobutanesulfonic Acid	375-73-5	--	ng/L	**1.9 J**			**5.6**			**3.5**	**2.9 J**
Perfluorobutyric Acid (PFBA)	375-22-4	--	ng/L	**3.4 J**			**56**			**9.7**	**9.9**
Perfluorodecane Sulfonic Acid	335-77-3	--	ng/L	1.7 UJ			1.8 U			1.8 U	1.8 U
Perfluorodecanoic Acid (PFDA)	335-76-2	--	ng/L	**1.2 J**			**1.7 J**			1.8 U	1.8 U
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	--	ng/L				1.8 U			1.8 U	1.8 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	--	ng/L	1.7 UJ			1.8 U			1.8 U	1.8 U
Perfluoroheptane Sulfonate (PFHp)	375-92-8	--	ng/L				**2.2**			1.8 U	1.8 U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	--	ng/L	1.7 UJ							
Perfluoroheptanoic Acid (PFHpA)	375-85-9	--	ng/L	**2.5 J**			**14**			**9.2**	**8**
Perfluorohexanesulfonic Acid	355-46-4	--	ng/L	**2 J**			**11**			**4.4**	**4.3**
Perfluorohexanoic Acid (PFHxA)	307-24-4	--	ng/L	**2.8**			**16**			**18**	**20**
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	--	ng/L				1.8 U			1.8 U	1.8 U
Perfluorononanoic Acid	375-95-1	--	ng/L	**1.8 J**			**6.8**			**1 J**	**1.5 J**
Perfluorooctane Sulfonamide (FOSA)	754-91-6	--	ng/L	1.7 U			1.8 U			1.8 U	1.8 U
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	**2.7**	ng/L	**9 J**			**110**			**17 J**	**17 J**
Perfluorooctanoic acid (PFOA)	335-67-1	**6.7**	ng/L	**5**			**41**			**19**	**18**
Perfluoropentanesulfonic Acid (PFPES)	2706-91-4	--	ng/L				**2.1**			**1.4 J**	**1.1 J**
Perfluoropentanoic Acid (PFPeA)	2706-90-3	--	ng/L				**15**			**21**	**19 J**
Perfluoropentanoic Acid (PFPeAa)	2706-90-3	--	ng/L	**3.5**							
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	--	ng/L	1.7 U			1.8 U			1.8 U	1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	--	ng/L	1.7 U			1.8 U			1.8 U	1.8 U
Perfluoroundecanoic Acid (Pfuna)	2058-94-8	--	ng/L	1.7 UJ			1.8 U			1.8 U	1.8 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	39108-34-4	--	ng/L	1.7 U			7.3 U			7.3 U	7.3 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	27619-97-2	--	ng/L	4.3 U			7.3 U			7.3 U	7.3 U
Metals											
Aluminum	7429-90-5	--	mg/L	0.2 U							
Antimony	7440-36-0	0.003	mg/L	0.02 U							
Arsenic	7440-38-2	0.025	mg/L	0.015 U							
Barium	7440-39-3	1	mg/L	**0.18 JH**							
Beryllium	7440-41-7	0.003	mg/L	0.002 U							
Cadmium	7440-43-9	0.005	mg/L	0.002 U							
Calcium	7440-70-2	--	mg/L	**85.9**							
Chromium	7440-47-3	0.05	mg/L	0.004 U							
Cobalt	7440-48-4	--	mg/L	**0.00068 J**							
Copper	7440-50-8	0.2	mg/L	0.01 U							
Iron	7439-89-6	**0.3**	mg/L	**0.031 J**							
Lead	7439-92-1	0.025	mg/L	0.01 U							
Magnesium	7439-95-4	**35**	mg/L	**23.4**							
Manganese	7439-96-5	**0.3**	mg/L	**0.51**							
Nickel	7440-02-0	0.1	mg/L	0.01 U							
Potassium	7440-09-7	--	mg/L	**3.9 JH**							

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-2	MW-2B	MW-3	MW-3	MW-3B	MW-5	MW-5	MW-5
			Sample #	828109-GW-MW-2-062121	828109-GW-MW-2B-062321	828109-GW-MW-3-062221	828109-MW-3-8-18-040423	828109-GW-MW-3B-062121	828109-GW-MW-5-062221	828109-MW-5-8.5-18.5-040323	828109-MW-905-8.5-18.5-040323
			Start Depth	3.9	N/A	7.9	8	N/A	8.5	8.5	8.5
			End Depth	13.9	N/A	17.9	18	N/A	18.5	18.5	18.5
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N	N	FD
			Parent Sample #								828109-MW-5-8.5-18.5-040323
			Sample Date	6/21/2021	6/23/2021	6/22/2021	4/4/2023	6/21/2021	6/22/2021	4/3/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**								
Selenium	7782-49-2	0.01	mg/L	0.025 U							
Silver	7440-22-4	0.05	mg/L	0.006 U							
Sodium	7440-23-5	**20**	mg/L	**265**							
Thallium	7440-28-0	0.0005	mg/L	0.02 U							
Vanadium	7440-62-2	--	mg/L	0.005 U							
Zinc	7440-66-6	2	mg/L	0.01 U							
MNA Parameters											
Alkalinity, Bicarbonate (As CaCO3)	ALKB	--	mg/L								
Alkalinity, Carbonate (As CaCO3)	ALKC	--	mg/L								
Alkalinity, Hydroxide (As CaCO3)	ALKH	--	mg/L								
Chloride	16887-00-6	--	mg/L								
Chloride (As Cl)	16887-00-6	--	mg/L	**394 T**	**787**			**31.4**			
Ferrous Iron	15438-31-0	--	mg/L	0.1 UJ	**0.52 J**	0.1 UJ		0.1 U	0.1 UJ		
Nitrate [as N]	14797-55-8	--	mg/L	0.05 U	0.05 U	**0.021 J**		**0.028 J**	**6.8**		
Nitrite [as N]	14797-65-0	--	mg/L	0.05 U	0.05 U	0.05 U		0.05 U	**0.022 J**		
Nitrogen, Nitrate-Nitrite	NO3NO2N	--	mg/L	0.05 U	0.05 U	**0.021 J**		**0.028 J**	**6.8 JH**		
Sulfate	14808-79-8	--	mg/L								
Sulfate (As SO4)	14808-79-8	--	mg/L	**32.2 JH**	**19.2**			5 U			
Sulfide	18496-25-8	--	mg/L	1 U	1 U	1 U		1 U	1 U		
Total Alkalinity	ALK	--	mg/L	**317 J**	**692**	**438**		**471**	**386**		
Total Organic Carbon	TOC	--	mg/L	**3**	**26.2**	**6.2**		**4.9**	**2.6**		

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-6	MW-6	MW-7	MW-8	MW-9	MW-9	MW-10	MW-10	MW-10	MW-11
			Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221	828109-GW-MW-7-062121	828109-GW-MW-8-062121	828109-MW-9-9-19-040323	GWS-1-03162023	828109-MW-10-3-8-040323	GWS-2-03132023	GWS-902-03132023	828109-MW-11-3-13-040323
			Start Depth	8	8	7	7	9	14	3	3	3	3
			End Depth	18	18	17	17	19	19	8	8	8	13
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N	N	N	N	FD	N
			Parent Sample #		828109-GW-MW-6-062221							GWS-2-03132023	
			Sample Date	6/22/2021	6/22/2021	6/21/2021	6/21/2021	4/3/2023	3/16/2023	4/3/2023	3/13/2023	3/13/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**										
VOCs													
1,1,1-Trichloroethane	71-55-6	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,1,2,2-Tetrachloroethane	79-34-5	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,1,2-Trichloroethane	79-00-5	1	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,1-Dichloroethane	75-34-3	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,1-Dichloroethene	75-35-4	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,2,4-Trichlorobenzene	120-82-1	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,2,4-Trimethylbenzene	95-63-6	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,2-Dibromoethane	106-93-4	0.0006	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,2-Dichlorobenzene	95-50-1	3	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,2-Dichloroethane	107-06-2	0.6	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,2-Dichloropropane	78-87-5	1	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
1,3-Dichlorobenzene	541-73-1	3	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
1,4-Dichlorobenzene	106-46-7	3	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
2-Butanone	78-93-3	50	µg/L	20 U	20 U	10 U	10 U	10 U	10 U	40 U	50 U	50 U	40 U
2-Hexanone	591-78-6	50	µg/L	10 U	10 U	5 U	5 U	5 U	5 U	20 U	25 U	25 U	20 U
4-Methyl-2-pentanone	108-10-1	--	µg/L	10 U	10 U	5 U	5 U	5 U	5 U	20 U	25 U	25 U	20 U
Acetone	67-64-1	50	µg/L	20 U	20 U	10 U	10 U	10 U	10 U	40 U	50 U	50 U	40 U
Benzene	71-43-2	1	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Bromodichloromethane	75-27-4	50	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Bromoform	75-25-2	50	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Bromomethane	74-83-9	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Carbon Disulfide	75-15-0	60	µg/L	2 U	2 U	1 U	1 U	1 UJ	1 U	4 U	5 U	5 U	4 U
Carbon Tetrachloride	56-23-5	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Chlorobenzene	108-90-7	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Chloroethane	75-00-3	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Chloroform	67-66-3	7	µg/L	2 U	2 U	1 U	1 U	**0.56 J**	1 U	4 U	5 U	5 U	4 U
Chloromethane	74-87-3	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
cis-1,2-Dichloroethene	156-59-2	**5**	µg/L	2 U	2 U	1 U	1 U	**4.8**	**2.3**	**56**	**91**	**99**	4 U
cis-1,3-Dichloropropene	10061-01-5	0.4	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Cyclohexane	110-82-7	--	µg/L	2 U	2 U	1 U	1 U	1 U	**0.23 J**	4 U	5 U	5 U	4 U
Cymene	99-87-6	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
Dibromochloromethane	124-48-1	50	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Dichlorodifluoromethane	75-71-8	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Ethylbenzene	100-41-4	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Isopropylbenzene	98-82-8	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
m,p-Xylene	179601-23-1	5	µg/L					2 U	2 U	8 U	10 U	10 U	8 U
Methyl acetate	79-20-9	--	µg/L	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	13 U	13 U	10 U
Methyl tert-Butyl Ether	1634-04-4	10	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Methylcyclohexane	108-87-2	--	µg/L	**0.98 J**	**0.77 J**	1 U	1 U	1 U	**0.25 J**	4 U	5 U	5 U	4 U
Methylene Chloride	75-09-2	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Naphthalene	91-20-3	10	µg/L					1 U	1 U	4 UJ	5 U	5 U	4 UJ
N-Butylbenzene	104-51-8	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
N-Propylbenzene	103-65-1	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
o-Xylene	95-47-6	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
Sec-Butylbenzene	135-98-8	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
Styrene	100-42-5	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
T-Butylbenzene	98-06-6	5	µg/L					1 U	1 U	4 U	5 U	5 U	4 U
Tetrachloroethene	127-18-4	**5**	µg/L	2 U	2 U	**0.96 J**	1 U	**4.2 J**	**3.8**	**110**	**220**	**220**	4 U

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-6	MW-6	MW-7	MW-8	MW-9	MW-9	MW-10	MW-10	MW-10	MW-11
			Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221	828109-GW-MW-7-062121	828109-GW-MW-8-062121	828109-MW-9-9-19-040323	GWS-1-03162023	828109-MW-10-3-8-040323	GWS-2-03132023	GWS-902-03132023	828109-MW-11-3-13-040323
			Start Depth	8	8	7	7	9	14	3	3	3	3
			End Depth	18	18	17	17	19	19	8	8	8	13
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N	N	N	N	FD	N
			Parent Sample #		828109-GW-MW-6-062221							GWS-2-03132023	
			Sample Date	6/22/2021	6/22/2021	6/21/2021	6/21/2021	4/3/2023	3/16/2023	4/3/2023	3/13/2023	3/13/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**										
Toluene	108-88-3	5	µg/L	2 U	2 U	1 U	1 U	1 U	**0.6 J**	4 U	5 U	5 U	4 U
Total Xylenes	1330-20-7	5	µg/L	4 U	4 U	2 U	2 U	2 U	2 U	8 U	10 U	10 U	8 U
trans-1,2-Dichloroethene	156-60-5	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
trans-1,3-Dichloropropene	10061-02-6	0.4	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Trichloroethene	79-01-6	**5**	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	**12**	**21**	**23**	4 U
Trichlorofluoromethane	75-69-4	5	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	5 U	5 U	4 U
Vinyl Chloride	75-01-4	**2**	µg/L	2 U	2 U	1 U	1 U	1 U	1 U	4 U	**16**	**16**	4 U
SVOCs													
1,1'-Biphenyl	92-52-4	5	µg/L	5 U	5 U								
1,4-Dioxane (P-Dioxane)	123-91-1	**0.35**	µg/L	0.19 U	0.19 U	0.2 U	0.19 U						
2,2'-Oxybis(1-chloropropane)	108-60-1	5	µg/L	5 U	5 U								
2,4,5-Trichlorophenol	95-95-4	--	µg/L	5 U	5 U								
2,4,6-Trichlorophenol	88-06-2	--	µg/L	5 U	5 U								
2,4-Dichlorophenol	120-83-2	5	µg/L	5 U	5 U								
2,4-Dimethylphenol	105-67-9	50	µg/L	5 U	5 U								
2,4-Dinitrophenol	51-28-5	10	µg/L	10 U	10 U								
2,4-Dinitrotoluene	121-14-2	5	µg/L	5 U	5 U								
2,6-Dinitrotoluene	606-20-2	5	µg/L	5 U	5 U								
2-Chloronaphthalene	91-58-7	10	µg/L	5 U	5 U								
2-Chlorophenol	95-57-8	--	µg/L	5 U	5 U								
2-Methylnaphthalene	91-57-6	--	µg/L	5 U	5 U								
2-Methylphenol	95-48-7	--	µg/L	5 U	5 U								
2-Nitroaniline	88-74-4	5	µg/L	10 U	10 U								
2-Nitrophenol	88-75-5	--	µg/L	5 U	5 U								
3,3'-Dichlorobenzidine	91-94-1	5	µg/L	5 U	5 U								
3-Nitroaniline	99-09-2	5	µg/L	10 U	10 U								
4,6-Dinitro-2-methylphenol	534-52-1	--	µg/L	10 U	10 U								
4-Bromophenyl-phenylether	101-55-3	--	µg/L	5 U	5 U								
4-Chloro-3-methylphenol	59-50-7	--	µg/L	5 U	5 U								
4-Chloroaniline	106-47-8	5	µg/L	5 U	5 U								
4-Chlorophenyl-phenylether	7005-72-3	--	µg/L	5 U	5 U								
4-Methylphenol (P-Cresol)	106-44-5	--	µg/L	10 U	10 U								
4-Nitroaniline	100-01-6	5	µg/L	10 U	10 U								
4-Nitrophenol	100-02-7	--	µg/L	10 U	10 U								
Acenaphthene	83-32-9	20	µg/L	**2.2 J**	**2.3 J**								
Acenaphthylene	208-96-8	--	µg/L	5 U	5 U								
Acetophenone	98-86-2	--	µg/L	5 U	5 U								
Anthracene	120-12-7	50	µg/L	5 U	5 U								
Atrazine	1912-24-9	7.5	µg/L	5 U	5 U								
Benzaldehyde	100-52-7	--	µg/L	5 U	5 U								
Benzo(a)anthracene	56-55-3	0.002	µg/L	5 U	5 U								
Benzo(a)pyrene	50-32-8	--	µg/L	5 U	5 U								
Benzo(b)fluoranthene	205-99-2	0.002	µg/L	5 U	5 U								
Benzo(g,h,i)perylene	191-24-2	--	µg/L	5 U	5 U								
Benzo(k)fluoranthene	207-08-9	0.002	µg/L	5 U	5 U								
Bis(2-chloroethoxy)methane	111-91-1	5	µg/L	5 U	5 U								
Bis(2-chloroethyl)ether	111-44-4	1	µg/L	5 U	5 U								
Bis(2-ethylhexyl)phthalate	117-81-7	5	µg/L	5 U	5 U								
Butylbenzylphthalate	85-68-7	50	µg/L	5 U	5 U								
Caprolactam	105-60-2	--	µg/L	5 U	5 U								
Carbazole	86-74-8	--	µg/L	5 UJ	5 UJ								
Chrysene	218-01-9	0.002	µg/L	5 U	5 U								
Dibenzo(a,h)anthracene	53-70-3	--	µg/L	5 U	5 U								
Dibenzofuran	132-64-9	--	µg/L	**0.71 J**	**0.75 J**								

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-6	MW-6	MW-7	MW-8	MW-9	MW-9	MW-10	MW-10	MW-10	MW-11
			Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221	828109-GW-MW-7-062121	828109-GW-MW-8-062121	828109-MW-9-9-19-040323	GWS-1-03162023	828109-MW-10-3-8-040323	GWS-2-03132023	GWS-902-03132023	828109-MW-11-3-13-040323
			Start Depth	8	8	7	7	9	14	3	3	3	3
			End Depth	18	18	17	17	19	19	8	8	8	13
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N	N	N	N	FD	N
			Parent Sample #		828109-GW-MW-6-062221							GWS-2-03132023	
			Sample Date	6/22/2021	6/22/2021	6/21/2021	6/21/2021	4/3/2023	3/16/2023	4/3/2023	3/13/2023	3/13/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**										
Diethylphthalate	84-66-2	50	µg/L	5 U	5 U								
Dimethylphthalate	131-11-3	50	µg/L	5 U	5 U								
Di-n-butylphthalate	84-74-2	50	µg/L	**15 JH**	**22 JH**								
Di-n-octylphthalate	117-84-0	50	µg/L	5 U	5 U								
Fluoranthene	206-44-0	50	µg/L	5 U	5 U								
Fluorene	86-73-7	50	µg/L	**1.6 J**	**1.7 J**								
Hexachlorobenzene	118-74-1	0.04	µg/L	5 U	5 U								
Hexachlorobutadiene	87-68-3	0.5	µg/L	5 U	5 U								
Hexachlorocyclopentadiene	77-47-4	5	µg/L	5 U	5 U								
Hexachloroethane	67-72-1	5	µg/L	5 U	5 U								
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	µg/L	5 U	5 U								
Isophorone	78-59-1	50	µg/L	5 U	5 U								
Naphthalene	91-20-3	10	µg/L	**0.96 J**	**1.1 J**								
Nitrobenzene	98-95-3	0.4	µg/L	5 U	5 U								
N-Nitroso-di-n-propylamine	621-64-7	--	µg/L	5 U	5 U								
N-Nitrosodiphenylamine	86-30-6	50	µg/L	5 U	5 U								
Pentachlorophenol	87-86-5	1	µg/L	10 U	10 U								
Phenanthrene	85-01-8	50	µg/L	5 U	**0.56 J**								
Phenol	108-95-2	1	µg/L	5 U	5 U								
Pyrene	129-00-0	50	µg/L	5 U	5 U								
Pesticides													
4,4'-DDD	72-54-8	0.3	µg/L	**0.045 J**	0.05 U								
4,4'-DDE	72-55-9	0.2	µg/L	**0.042 J**	**0.014 J**								
4,4'-DDT	50-29-3	0.2	µg/L	0.05 U	0.05 U								
Aldrin	309-00-2	--	µg/L	**0.012 J**	**0.019 J**								
alpha-BHC	319-84-6	**0.01**	µg/L	**0.025 J**	**0.021 J**								
alpha-Chlordane	5103-71-9	0.05	µg/L	**0.019 J**	**0.016 J**								
beta-BHC	319-85-7	0.04	µg/L	0.05 U	0.05 U								
delta-BHC	319-86-8	0.04	µg/L	0.05 U	0.05 U								
Dieldrin	60-57-1	0.004	µg/L	0.05 U	0.05 U								
Endosulfan I	959-98-8	--	µg/L	0.05 U	0.05 U								
Endosulfan II	33213-65-9	--	µg/L	0.05 U	0.05 U								
Endosulfan Sulfate	1031-07-8	--	µg/L	0.05 U	0.05 U								
Endrin	72-20-8	--	µg/L	0.05 U	0.05 U								
Endrin aldehyde	7421-93-4	5	µg/L	0.05 U	0.05 U								
Endrin Ketone	53494-70-5	5	µg/L	0.05 U	0.05 U								
gamma-BHC (Lindane)	58-89-9	0.05	µg/L	0.05 U	0.05 U								
gamma-Chlordane	5103-74-2	0.05	µg/L	0.05 U	0.05 U								
Heptachlor	76-44-8	0.04	µg/L	**0.03 J**	0.05 U								
Heptachlor Epoxide	1024-57-3	0.03	µg/L	0.05 U	0.05 U								
Methoxychlor	72-43-5	35	µg/L	0.05 U	0.05 U								
Toxaphene	8001-35-2	0.06	µg/L	0.5 U	0.5 U								
PCBs													
Aroclor 1016	12674-11-2	0.09	µg/L	0.5 U	0.5 U								
Aroclor 1221	11104-28-2	0.09	µg/L	0.5 U	0.5 U								
Aroclor 1232	11141-16-5	0.09	µg/L	0.5 U	0.5 U								
Aroclor 1242	53469-21-9	0.09	µg/L	0.5 U	0.5 U								
Aroclor 1248	12672-29-6	0.09	µg/L	0.5 U	0.5 U								
Aroclor 1254	11097-69-1	0.09	µg/L	0.5 U	0.5 U								
Aroclor 1260	11096-82-5	0.09	µg/L	0.5 U	0.5 U								
PFAS													
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	--	ng/L					6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4	--	ng/L					6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	--	ng/L					17 U	23 U	19 U	21 UJ	21 U	17 U

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-6	MW-6	MW-7	MW-8	MW-9	MW-9	MW-10	MW-10	MW-10	MW-11
			Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221	828109-GW-MW-7-062121	828109-GW-MW-8-062121	828109-MW-9-9-19-040323	GWS-1-03162023	828109-MW-10-3-8-040323	GWS-2-03132023	GWS-902-03132023	828109-MW-11-3-13-040323
			Start Depth	8	8	7	7	9	14	3	3	3	3
			End Depth	18	18	17	17	19	19	8	8	8	13
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N	N	N	N	FD	N
			Parent Sample #		828109-GW-MW-6-062221							GWS-2-03132023	
			Sample Date	6/22/2021	6/22/2021	6/21/2021	6/21/2021	4/3/2023	3/16/2023	4/3/2023	3/13/2023	3/13/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**										
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	--	ng/L					17 U	23 U	19 U	21 UJ	21 U	17 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	--	ng/L	4.4 U	4.3 U			3.4 U	4.6 U	3.8 U	4.3 U	4.1 U	3.5 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	--	ng/L					43 U	57 U	47 U	54 U	51 U	44 U
3-Perfluoroheptyl propanoic acid	812-70-4	--	ng/L					43 U	57 U	47 U	54 U	51 U	44 U
3-Perfluoropropyl propanoic acid	356-02-5	--	ng/L					8.5 U	11 U	9.4 U	11 U	10 U	8.7 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	--	ng/L					6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	--	ng/L					6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	--	ng/L					6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	--	ng/L					1.7 U	2.3 U	1.9 U	2.1 UJ	2.1 U	1.7 U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	--	ng/L	4.4 U	4.3 U			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	--	ng/L					1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	--	ng/L					3.4 U	4.6 U	3.8 U	4.3 U	4.1 U	3.5 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	--	ng/L					3.4 U	4.6 U	3.8 U	4.3 U	4.1 U	3.5 U
Perfluoro-3-methoxypropanoic acid	377-73-1	--	ng/L					3.4 U	4.6 U	3.8 U	4.3 U	4.1 U	3.5 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	--	ng/L					3.4 U	4.6 U	3.8 U	4.3 U	4.1 U	3.5 U
Perfluorobutanesulfonic Acid	375-73-5	--	ng/L	**4.4 J**	**3.7 J**			**2.5**	**4.1**	**14**	**12**	**14**	**24**
Perfluorobutyric Acid (PFBA)	375-22-4	--	ng/L	**43**	**42**			**9.6**	**13**	**82**	**150**	**160**	**40**
Perfluorodecane Sulfonic Acid	335-77-3	--	ng/L	1.8 UJ	1.7 UJ			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluorodecanoic Acid (PFDA)	335-76-2	--	ng/L	**0.37 J**	**0.41 J**			1.7 U	**2.3**	1.9 U	2.1 U	**1.3 J**	1.7 U
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	--	ng/L					1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	--	ng/L	1.8 UJ	1.7 UJ			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluoroheptane Sulfonate (PFHp)	375-92-8	--	ng/L					1.7 U	2.3 U	1.9 U	2.1 U	**0.45 J**	1.7 U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	--	ng/L	**0.44 J**	**0.45 J**								
Perfluoroheptanoic Acid (PFHpA)	375-85-9	--	ng/L	**15 J**	**15 J**			**1.7**	**5.2**	**14**	**18**	**22**	1.7 U
Perfluorohexanesulfonic Acid	355-46-4	--	ng/L	**5.9 J**	**5.7 J**			**1.1 J**	2.3 U	**6.6**	**6.3**	**6.5**	1.7 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	--	ng/L	**21**	**20**			**5.9**	**17**	**42**	**73**	**72**	1.7 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	--	ng/L					1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluorononanoic Acid	375-95-1	--	ng/L	**1.5 J**	**1.6 J**			**0.82 J**	**5.7**	**1.1 J**	**3.1**	**3.1**	1.7 U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	--	ng/L	1.8 U	1.7 U			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	**2.7**	ng/L	**29 J**	**30 J**			**5.3**	**6.3**	**17**	**28**	**28**	1.7 U
Perfluorooctanoic acid (PFOA)	335-67-1	**6.7**	ng/L	**34**	**35**			**4.6**	**15**	**31**	**44**	**49**	**1.6 J**
Perfluoropentanesulfonic Acid (PFPES)	2706-91-4	--	ng/L					1.7 U	2.3 U	**3.6**	**3.3**	**3.3**	**0.45 J**
Perfluoropentanoic Acid (PFPeA)	2706-90-3	--	ng/L					**7.2 J**	**18 J**	**59**	**100**	**79**	**3.5**
Perfluoropentanoic Acid (PFPeAa)	2706-90-3	--	ng/L	**46**	**49**								
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	--	ng/L	1.8 U	1.7 U			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	--	ng/L	1.8 U	1.7 U			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Perfluoroundecanoic Acid (Pfuna)	2058-94-8	--	ng/L	1.8 UJ	1.7 UJ			1.7 U	2.3 U	1.9 U	2.1 U	2.1 U	1.7 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	39108-34-4	--	ng/L	1.8 U	1.7 U			6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	27619-97-2	--	ng/L	4.4 U	4.3 U			6.8 U	9.1 U	7.5 U	8.6 U	8.2 U	7 U
Metals													
Aluminum	7429-90-5	--	mg/L	0.2 UJ	0.2 UJ								
Antimony	7440-36-0	0.003	mg/L	0.02 U	0.02 U								
Arsenic	7440-38-2	0.025	mg/L	0.015 U	0.015 U								
Barium	7440-39-3	1	mg/L	**0.22**	**0.23**								
Beryllium	7440-41-7	0.003	mg/L	0.002 U	0.002 U								
Cadmium	7440-43-9	0.005	mg/L	0.002 U	0.002 U								
Calcium	7440-70-2	--	mg/L	**143 JH**	**148 JH**								
Chromium	7440-47-3	0.05	mg/L	0.004 UJ	0.004 UJ								
Cobalt	7440-48-4	--	mg/L	**0.0008 J**	**0.00095 J**								
Copper	7440-50-8	0.2	mg/L	0.01 UJ	0.01 UJ								
Iron	7439-89-6	**0.3**	mg/L	**3.3**	**3.5**								
Lead	7439-92-1	0.025	mg/L	0.01 U	0.01 U								
Magnesium	7439-95-4	**35**	mg/L	**43.2**	**44.1**								
Manganese	7439-96-5	**0.3**	mg/L	**0.59 JH**	**0.61 JH**								
Nickel	7440-02-0	0.1	mg/L	**0.0039 J**	**0.0043 J**								
Potassium	7440-09-7	--	mg/L	**6 J**	**6 J**								

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-6	MW-6	MW-7	MW-8	MW-9	MW-9	MW-10	MW-10	MW-10	MW-11
			Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221	828109-GW-MW-7-062121	828109-GW-MW-8-062121	828109-MW-9-9-19-040323	GWS-1-03162023	828109-MW-10-3-8-040323	GWS-2-03132023	GWS-902-03132023	828109-MW-11-3-13-040323
			Start Depth	8	8	7	7	9	14	3	3	3	3
			End Depth	18	18	17	17	19	19	8	8	8	13
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N	N	N	N	FD	N
			Parent Sample #		828109-GW-MW-6-062221							GWS-2-03132023	
			Sample Date	6/22/2021	6/22/2021	6/21/2021	6/21/2021	4/3/2023	3/16/2023	4/3/2023	3/13/2023	3/13/2023	4/3/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**										
Selenium	7782-49-2	0.01	mg/L	0.025 UJ	0.025 UJ								
Silver	7440-22-4	0.05	mg/L	0.006 U	0.006 U								
Sodium	7440-23-5	**20**	mg/L	**142**	**147**								
Thallium	7440-28-0	0.0005	mg/L	0.02 U	0.02 U								
Vanadium	7440-62-2	--	mg/L	0.005 U	0.005 U								
Zinc	7440-66-6	2	mg/L	0.01 UJ	0.01 UJ								
MNA Parameters													
Alkalinity, Bicarbonate (As CaCO3)	ALKB	--	mg/L					**269**		**227**			**254**
Alkalinity, Carbonate (As CaCO3)	ALKC	--	mg/L					5 U		5 U			5 U
Alkalinity, Hydroxide (As CaCO3)	ALKH	--	mg/L					5 U		5 U			5 U
Chloride	16887-00-6	--	mg/L					**1200**		**266**			**1430**
Chloride (As Cl)	16887-00-6	--	mg/L			**2070**	**1950**						
Ferrous Iron	15438-31-0	--	mg/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U						
Nitrate [as N]	14797-55-8	--	mg/L	0.05 U	**0.023 J**	**0.025 J**	0.05 U	**1.1 J**		**9 J**			**0.027 J**
Nitrite [as N]	14797-65-0	--	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		**0.033 J**			0.05 U
Nitrogen, Nitrate-Nitrite	NO3NO2N	--	mg/L	0.05 U	**0.023 J**	**0.025 J**	0.05 U						
Sulfate	14808-79-8	--	mg/L					**88.2**		**105**			**261**
Sulfate (As SO4)	14808-79-8	--	mg/L			**193**	**188**						
Sulfide	18496-25-8	--	mg/L	1 U	1 U	1 U	1 U	1 U		1 U			1 U
Total Alkalinity	ALK	--	mg/L	**545**	**534**	**407**	**406**	**269**		**227**			**254**
Total Organic Carbon	TOC	--	mg/L	**10.1**	**9.8**	**3.5**	**2.5**	**1.3**		**5.1**			**9.2**

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-11	GWS-4	GWS-5	GWS-6	GWS-7	GWS-8
			Sample #	GWS-3-03132023	GWS-4-03132023	GWS-5-03132023	GWS-6-03132023	GWS-7-03132023	GWS-8-03132023
			Start Depth	8	5	4	6	5	5
			End Depth	13	10	9	11	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N
			Parent Sample #						
			Sample Date	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**						
VOCs									
1,1,1-Trichloroethane	71-55-6	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	79-00-5	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	106-93-4	0.0006	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	3	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	3	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	3	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	µg/L	**1.5 J**	10 U	10 U	10 U	10 U	10 U
2-Hexanone	591-78-6	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	108-10-1	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	µg/L	**6.8 J**	10 U	**3.8 J**	**6.5 J**	**6 J**	**3.3 J**
Benzene	71-43-2	1	µg/L	1 U	1 U	**0.64 J**	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	60	µg/L	1 U	1 U	1 U	**0.22 J**	**0.21 J**	**0.28 J**
Carbon Tetrachloride	56-23-5	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	**5**	µg/L	1 U	1 U	**14**	1 U	1 U	1 U
cis-1,3-Dichloropropene	10061-01-5	0.4	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	--	µg/L	1 U	1 U	**0.36 J**	**0.35 J**	1 U	1 U
Cymene	99-87-6	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	124-48-1	50	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	100-41-4	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	179601-23-1	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Methyl acetate	79-20-9	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert-Butyl Ether	1634-04-4	10	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	108-87-2	--	µg/L	1 U	1 U	**0.55 J**	**0.37 J**	1 U	1 U
Methylene Chloride	75-09-2	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	91-20-3	10	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
N-Butylbenzene	104-51-8	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	103-65-1	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Sec-Butylbenzene	135-98-8	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
T-Butylbenzene	98-06-6	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	**5**	µg/L	**0.72 J**	1 U	**17**	1 U	1 U	1 U

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-11	GWS-4	GWS-5	GWS-6	GWS-7	GWS-8
			Sample #	GWS-3-03132023	GWS-4-03132023	GWS-5-03132023	GWS-6-03132023	GWS-7-03132023	GWS-8-03132023
			Start Depth	8	5	4	6	5	5
			End Depth	13	10	9	11	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N
			Parent Sample #						
			Sample Date	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**						
Toluene	108-88-3	5	µg/L	1 U	1 U	**1.2**	1 U	1 U	1 U
Total Xylenes	1330-20-7	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
trans-1,2-Dichloroethene	156-60-5	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	0.4	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	79-01-6	**5**	µg/L	1 U	1 U	**1.7**	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	75-01-4	**2**	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
SVOCs									
1,1'-Biphenyl	92-52-4	5	µg/L						
1,4-Dioxane (P-Dioxane)	123-91-1	**0.35**	µg/L						
2,2'-Oxybis(1-chloropropane)	108-60-1	5	µg/L						
2,4,5-Trichlorophenol	95-95-4	--	µg/L						
2,4,6-Trichlorophenol	88-06-2	--	µg/L						
2,4-Dichlorophenol	120-83-2	5	µg/L						
2,4-Dimethylphenol	105-67-9	50	µg/L						
2,4-Dinitrophenol	51-28-5	10	µg/L						
2,4-Dinitrotoluene	121-14-2	5	µg/L						
2,6-Dinitrotoluene	606-20-2	5	µg/L						
2-Chloronaphthalene	91-58-7	10	µg/L						
2-Chlorophenol	95-57-8	--	µg/L						
2-Methylnaphthalene	91-57-6	--	µg/L						
2-Methylphenol	95-48-7	--	µg/L						
2-Nitroaniline	88-74-4	5	µg/L						
2-Nitrophenol	88-75-5	--	µg/L						
3,3'-Dichlorobenzidine	91-94-1	5	µg/L						
3-Nitroaniline	99-09-2	5	µg/L						
4,6-Dinitro-2-methylphenol	534-52-1	--	µg/L						
4-Bromophenyl-phenylether	101-55-3	--	µg/L						
4-Chloro-3-methylphenol	59-50-7	--	µg/L						
4-Chloroaniline	106-47-8	5	µg/L						
4-Chlorophenyl-phenylether	7005-72-3	--	µg/L						
4-Methylphenol (P-Cresol)	106-44-5	--	µg/L						
4-Nitroaniline	100-01-6	5	µg/L						
4-Nitrophenol	100-02-7	--	µg/L						
Acenaphthene	83-32-9	20	µg/L						
Acenaphthylene	208-96-8	--	µg/L						
Acetophenone	98-86-2	--	µg/L						
Anthracene	120-12-7	50	µg/L						
Atrazine	1912-24-9	7.5	µg/L						
Benzaldehyde	100-52-7	--	µg/L						
Benzo(a)anthracene	56-55-3	0.002	µg/L						
Benzo(a)pyrene	50-32-8	--	µg/L						
Benzo(b)fluoranthene	205-99-2	0.002	µg/L						
Benzo(g,h,i)perylene	191-24-2	--	µg/L						
Benzo(k)fluoranthene	207-08-9	0.002	µg/L						
Bis(2-chloroethoxy)methane	111-91-1	5	µg/L						
Bis(2-chloroethyl)ether	111-44-4	1	µg/L						
Bis(2-ethylhexyl)phthalate	117-81-7	5	µg/L						
Butylbenzylphthalate	85-68-7	50	µg/L						
Caprolactam	105-60-2	--	µg/L						
Carbazole	86-74-8	--	µg/L						
Chrysene	218-01-9	0.002	µg/L						
Dibenzo(a,h)anthracene	53-70-3	--	µg/L						
Dibenzofuran	132-64-9	--	µg/L						

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-11	GWS-4	GWS-5	GWS-6	GWS-7	GWS-8
			Sample #	GWS-3-03132023	GWS-4-03132023	GWS-5-03132023	GWS-6-03132023	GWS-7-03132023	GWS-8-03132023
			Start Depth	8	5	4	6	5	5
			End Depth	13	10	9	11	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N
			Parent Sample #						
			Sample Date	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**						
Diethylphthalate	84-66-2	50	µg/L						
Dimethylphthalate	131-11-3	50	µg/L						
Di-n-butylphthalate	84-74-2	50	µg/L						
Di-n-octylphthalate	117-84-0	50	µg/L						
Fluoranthene	206-44-0	50	µg/L						
Fluorene	86-73-7	50	µg/L						
Hexachlorobenzene	118-74-1	0.04	µg/L						
Hexachlorobutadiene	87-68-3	0.5	µg/L						
Hexachlorocyclopentadiene	77-47-4	5	µg/L						
Hexachloroethane	67-72-1	5	µg/L						
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	µg/L						
Isophorone	78-59-1	50	µg/L						
Naphthalene	91-20-3	10	µg/L						
Nitrobenzene	98-95-3	0.4	µg/L						
N-Nitroso-di-n-propylamine	621-64-7	--	µg/L						
N-Nitrosodiphenylamine	86-30-6	50	µg/L						
Pentachlorophenol	87-86-5	1	µg/L						
Phenanthrene	85-01-8	50	µg/L						
Phenol	108-95-2	1	µg/L						
Pyrene	129-00-0	50	µg/L						
Pesticides									
4,4'-DDD	72-54-8	0.3	µg/L						
4,4'-DDE	72-55-9	0.2	µg/L						
4,4'-DDT	50-29-3	0.2	µg/L						
Aldrin	309-00-2	--	µg/L						
alpha-BHC	319-84-6	**0.01**	µg/L						
alpha-Chlordane	5103-71-9	0.05	µg/L						
beta-BHC	319-85-7	0.04	µg/L						
delta-BHC	319-86-8	0.04	µg/L						
Dieldrin	60-57-1	0.004	µg/L						
Endosulfan I	959-98-8	--	µg/L						
Endosulfan II	33213-65-9	--	µg/L						
Endosulfan Sulfate	1031-07-8	--	µg/L						
Endrin	72-20-8	--	µg/L						
Endrin aldehyde	7421-93-4	5	µg/L						
Endrin Ketone	53494-70-5	5	µg/L						
gamma-BHC (Lindane)	58-89-9	0.05	µg/L						
gamma-Chlordane	5103-74-2	0.05	µg/L						
Heptachlor	76-44-8	0.04	µg/L						
Heptachlor Epoxide	1024-57-3	0.03	µg/L						
Methoxychlor	72-43-5	35	µg/L						
Toxaphene	8001-35-2	0.06	µg/L						
PCBs									
Aroclor 1016	12674-11-2	0.09	µg/L						
Aroclor 1221	11104-28-2	0.09	µg/L						
Aroclor 1232	11141-16-5	0.09	µg/L						
Aroclor 1242	53469-21-9	0.09	µg/L						
Aroclor 1248	12672-29-6	0.09	µg/L						
Aroclor 1254	11097-69-1	0.09	µg/L						
Aroclor 1260	11096-82-5	0.09	µg/L						
PFAS									
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	763051-92-9	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	--	ng/L	20 U	19 U	22 U	20 U	20 U	20 U

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-11	GWS-4	GWS-5	GWS-6	GWS-7	GWS-8
			Sample #	GWS-3-03132023	GWS-4-03132023	GWS-5-03132023	GWS-6-03132023	GWS-7-03132023	GWS-8-03132023
			Start Depth	8	5	4	6	5	5
			End Depth	13	10	9	11	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N
			Parent Sample #						
			Sample Date	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**						
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	--	ng/L	20 U	19 U	22 U	20 U	20 U	20 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	--	ng/L	4.1 U	3.9 U	4.4 U	4.1 U	4 U	4 U
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	--	ng/L	51 U	49 U	55 U	51 U	50 U	50 U
3-Perfluoroheptyl propanoic acid	812-70-4	--	ng/L	51 U	49 U	55 U	51 U	50 U	50 U
3-Perfluoropropyl propanoic acid	356-02-5	--	ng/L	10 U	9.7 U	11 U	10 U	10 U	10 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	756426-58-1	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
N-ethyl perfluoro-1-octanesulfonamide	4151-50-2	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
N-methyl perfluoro-1-octanesulfonamide	31506-32-8	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	--	ng/L	4.1 U	3.9 U	4.4 U	4.1 U	4 U	4 U
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	--	ng/L	4.1 U	3.9 U	4.4 U	4.1 U	4 U	4 U
Perfluoro-3-methoxypropanoic acid	377-73-1	--	ng/L	4.1 U	3.9 U	4.4 U	4.1 U	4 U	4 U
Perfluoro-4-methoxybutanoic acid	863090-89-5	--	ng/L	4.1 U	3.9 U	4.4 U	4.1 U	4 U	4 U
Perfluorobutanesulfonic Acid	375-73-5	--	ng/L	**11**	**2.3**	**2.8**	**7.4**	**6.5**	**0.86 J**
Perfluorobutyric Acid (PFBA)	375-22-4	--	ng/L	**25**	**7.9**	**14**	**62**	**11**	**11**
Perfluorodecane Sulfonic Acid	335-77-3	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluorodecanoic Acid (PFDA)	335-76-2	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluorododecane sulfonate (PFDoDS)	79780-39-5	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluoroheptane Sulfonate (PFHp)	375-92-8	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	--	ng/L						
Perfluoroheptanoic Acid (PFHpA)	375-85-9	--	ng/L	**2**	**1 J**	**5.3**	2 U	2 U	2 U
Perfluorohexanesulfonic Acid	355-46-4	--	ng/L	**1.9 J**	1.9 U	**0.68 J**	2 U	2 U	2 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	--	ng/L	**23**	**1.9**	**11**	2 U	2 U	2 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluorononanoic Acid	375-95-1	--	ng/L	2 U	1.9 U	**1.6 J**	2 U	2 U	2 U
Perfluorooctane Sulfonamide (FOSA)	754-91-6	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluorooctane Sulfonic Acid (PFOS)	1763-23-1	**2.7**	ng/L	**15**	**10**	**2.1 J**	2 U	2 U	2 U
Perfluorooctanoic acid (PFOA)	335-67-1	**6.7**	ng/L	**4.4**	**4**	**12**	**2.2**	**1 J**	**1.1 J**
Perfluoropentanesulfonic Acid (PFPES)	2706-91-4	--	ng/L	**0.99 J**	1.9 U	2.2 U	2 U	2 U	2 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	--	ng/L	**43 J**	3.9 U	**16**	4.1 U	4 U	4 U
Perfluoropentanoic Acid (PFPeAa)	2706-90-3	--	ng/L						
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Perfluoroundecanoic Acid (Pfuna)	2058-94-8	--	ng/L	2 U	1.9 U	2.2 U	2 U	2 U	2 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	39108-34-4	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	27619-97-2	--	ng/L	8.1 U	7.8 U	8.9 U	8.1 U	8.1 U	8 U
Metals									
Aluminum	7429-90-5	--	mg/L						
Antimony	7440-36-0	0.003	mg/L						
Arsenic	7440-38-2	0.025	mg/L						
Barium	7440-39-3	1	mg/L						
Beryllium	7440-41-7	0.003	mg/L						
Cadmium	7440-43-9	0.005	mg/L						
Calcium	7440-70-2	--	mg/L						
Chromium	7440-47-3	0.05	mg/L						
Cobalt	7440-48-4	--	mg/L						
Copper	7440-50-8	0.2	mg/L						
Iron	7439-89-6	**0.3**	mg/L						
Lead	7439-92-1	0.025	mg/L						
Magnesium	7439-95-4	**35**	mg/L						
Manganese	7439-96-5	**0.3**	mg/L						
Nickel	7440-02-0	0.1	mg/L						
Potassium	7440-09-7	--	mg/L						

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	MW-11	GWS-4	GWS-5	GWS-6	GWS-7	GWS-8
			Sample #	GWS-3-03132023	GWS-4-03132023	GWS-5-03132023	GWS-6-03132023	GWS-7-03132023	GWS-8-03132023
			Start Depth	8	5	4	6	5	5
			End Depth	13	10	9	11	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft
			Sample Type	N	N	N	N	N	N
			Parent Sample #						
			Sample Date	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023	3/13/2023
Analyte	**CAS #**	**Groundwater Screening Value1**	**Units**						
Selenium	7782-49-2	0.01	mg/L						
Silver	7440-22-4	0.05	mg/L						
Sodium	7440-23-5	**20**	mg/L						
Thallium	7440-28-0	0.0005	mg/L						
Vanadium	7440-62-2	--	mg/L						
Zinc	7440-66-6	2	mg/L						
MNA Parameters									
Alkalinity, Bicarbonate (As CaCO3)	ALKB	--	mg/L						
Alkalinity, Carbonate (As CaCO3)	ALKC	--	mg/L						
Alkalinity, Hydroxide (As CaCO3)	ALKH	--	mg/L						
Chloride	16887-00-6	--	mg/L						
Chloride (As Cl)	16887-00-6	--	mg/L						
Ferrous Iron	15438-31-0	--	mg/L						
Nitrate [as N]	14797-55-8	--	mg/L						
Nitrite [as N]	14797-65-0	--	mg/L						
Nitrogen, Nitrate-Nitrite	NO3NO2N	--	mg/L						
Sulfate	14808-79-8	--	mg/L						
Sulfate (As SO4)	14808-79-8	--	mg/L						
Sulfide	18496-25-8	--	mg/L						
Total Alkalinity	ALK	--	mg/L						
Total Organic Carbon	TOC	--	mg/L						

Table 4-1
Groundwater Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

Notes:
1 - NYSDEC. June 1998. TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
Includes April 2000 and June 2004 Addendum values. (http://www.dec.ny.gov/docs/water_pdf/togs111.pdf), downloaded November 8, 2017.
Includes March 2023 Final Ambient Water Quality Standards and Guidance Values for PFOS, PFOA, and 1,4-dioxane (Human Health).
https://content.govdelivery.com/accounts/NYSDEC/bulletins/34edc43

Acronyms:

# - number	mg/L - milligram per liter
ALK - alkalinity	ng/L - nanogram per liter
CAS - chemical abstract service	N - normal sample
FD - field duplicate	TOC - total organic carbon
ft - feet	µg/L - microgram per liter
ID - identification	-- - no screening value

> NYSDEC TOGS 1.1.1

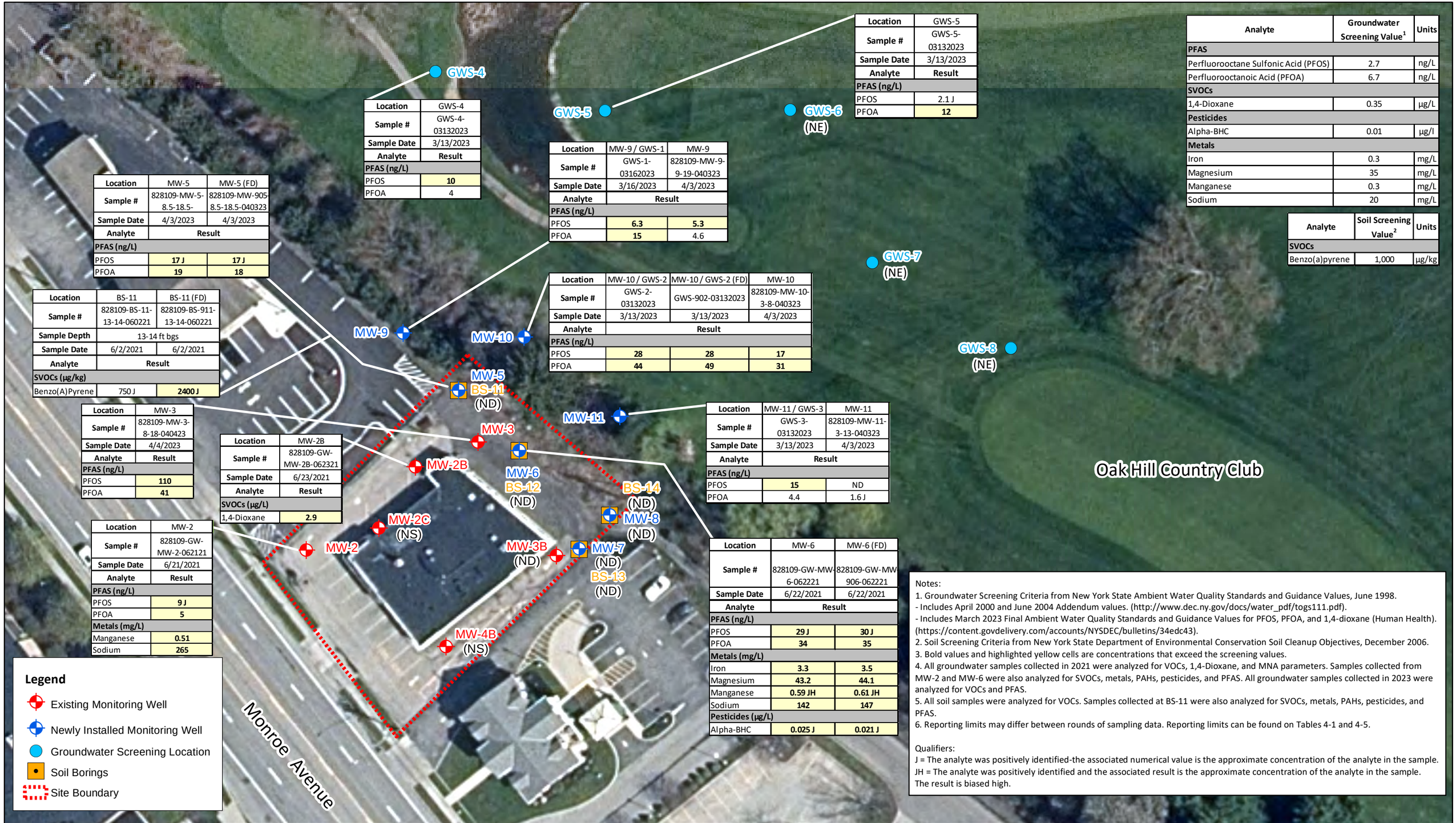
Bold Detection

Qualifiers:
U - Analyte was not present in sample above detection limit
UJ - Analyte was not present in sample above detection limit; however, the reported detection limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
JH - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The result is biased high.
JL - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The result is biased low.
T - Matrix spike and/or matrix spike duplicate exceeds control limits

In the 2021 round of groundwater sampling, five VOCs (*cis*-1,2-DCE, methylcyclohexane, PCE, TCE, and vinyl chloride) were detected in groundwater samples collected from four of eight sampled wells. *cis*-1,2-DCE and vinyl chloride were detected at concentrations above the NYSDEC AWQS at MW-3 and *cis*-1,2-DCE, PCE, TCE, and vinyl chloride were detected at concentrations above the NYSDEC AWQS at MW-5. TCE was not detected at MW-3. *cis*-1,2-DCE, PCE, and TCE concentrations at MW-5 were 680 µg/L, 1,900 µg/L, and 95 µg/L, respectively, and were higher than concentrations of the same VOCs at MW-3 (*cis*-1,2-DCE: 150 µg/L; PCE: 1.5 J µg/L; TCE: not detected). Vinyl chloride was the only VOC detected at lower levels at MW-5 (48 µg/L) than at MW-3 (86 µg/L). Methylcyclohexane was detected in MW-6 and PCE was detected in MW-7 at concentrations below 1 µg/L. No VOCs were detected in MW-2, MW-2B, MW-3B, and MW-8.

Samples were collected at MW-3 and MW-5 in 2023 because there were exceedances of the NYSDEC AWQS for Site-related VOCs at these wells in 2021. In the 2023 round of groundwater sampling, six VOCs (*cis*-1,2-DCE, cyclohexane, naphthalene, PCE, TCE, and vinyl chloride) were detected in groundwater samples collected from these two on-site wells. *cis*-1,2-DCE and vinyl chloride were detected at concentrations above the NYSDEC AWQS at MW-3 and *cis*-1,2-DCE, PCE, and TCE were detected at concentrations above the NYSDEC AWQS at MW-5. PCE and TCE concentrations at MW-5 were 370 µg/L and 13 µg/L, respectively, while neither VOC was detected at MW-3. *cis*-1,2-DCE and vinyl chloride concentrations at MW-5 were 46 µg/L and 13 µg/L, respectively, and were lower than concentrations of the same VOCs at MW-3 (*cis*-1,2-DCE: 68 µg/L; vinyl chloride: 39 µg/L). Cyclohexane and naphthalene were detected only at MW-3 at concentrations of 0.71 J µg/L and 1.3 J µg/L, respectively.

In addition to VOCs, other contaminants were detected in groundwater including PFAS, 1,4-dioxane, SVOCs, and metals. The non-VOC concentrations exceeding their respective NYSDEC AWQS are presented on **Figure 4-2.** All results are presented in **Table 4-1**.



Location	GWS-4
Sample #	GWS-4-03132023
Sample Date	3/13/2023
Analyte	Result
PFAS (ng/L)	
PFOS	**10**
PFOA	4

Location	GWS-5
Sample #	GWS-5-03132023
Sample Date	3/13/2023
Analyte	Result
PFAS (ng/L)	
PFOS	2.1 J
PFOA	**12**

Location	MW-5	MW-5 (FD)
Sample #	828109-MW-5-8.5-18.5-	828109-MW-905-8.5-18.5-040323
Sample Date	4/3/2023	4/3/2023
Analyte	Result	
PFAS (ng/L)		
PFOS	**17 J**	**17 J**
PFOA	**19**	**18**

Location	MW-9 / GWS-1	MW-9
Sample #	GWS-1-03162023	828109-MW-9-9-19-040323
Sample Date	3/16/2023	4/3/2023
Analyte	Result	
PFAS (ng/L)		
PFOS	**6.3**	**5.3**
PFOA	**15**	4.6

Location	BS-11	BS-11 (FD)
Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221
Sample Depth	13-14 ft bgs	
Sample Date	6/2/2021	6/2/2021
Analyte	Result	
SVOCs (µg/kg)		
Benzo(A)Pyrene	750 J	**2400 J**

Location	MW-10 / GWS-2	MW-10 / GWS-2 (FD)	MW-10
Sample #	GWS-2-03132023	GWS-902-03132023	828109-MW-10-3-8-040323
Sample Date	3/13/2023	3/13/2023	4/3/2023
Analyte	Result		
PFAS (ng/L)			
PFOS	**28**	**28**	**17**
PFOA	**44**	**49**	**31**

Location	MW-3
Sample #	828109-MW-3-8-18-040423
Sample Date	4/4/2023
Analyte	Result
PFAS (ng/L)	
PFOS	**110**
PFOA	**41**

Location	MW-2B
Sample #	828109-GW-MW-2B-062321
Sample Date	6/23/2021
Analyte	Result
SVOCs (µg/L)	
1,4-Dioxane	**2.9**

Location	MW-11 / GWS-3	MW-11
Sample #	GWS-3-03132023	828109-MW-11-3-13-040323
Sample Date	3/13/2023	4/3/2023
Analyte	Result	
PFAS (ng/L)		
PFOS	**15**	ND
PFOA	4.4	1.6 J

Location	MW-2
Sample #	828109-GW-MW-2-062121
Sample Date	6/21/2021
Analyte	Result
PFAS (ng/L)	
PFOS	**9 J**
PFOA	**5**
Metals (mg/L)	
Manganese	**0.51**
Sodium	**265**

Location	MW-6	MW-6 (FD)
Sample #	828109-GW-MW-6-062221	828109-GW-MW-906-062221
Sample Date	6/22/2021	6/22/2021
Analyte	Result	
PFAS (ng/L)		
PFOS	**29 J**	**30 J**
PFOA	**34**	**35**
Metals (mg/L)		
Iron	**3.3**	**3.5**
Magnesium	**43.2**	**44.1**
Manganese	**0.59 JH**	**0.61 JH**
Sodium	**142**	**147**
Pesticides (µg/L)		
Alpha-BHC	**0.025 J**	**0.021 J**

Analyte	Groundwater Screening Value[1]	Units
PFAS		
Perfluorooctane Sulfonic Acid (PFOS)	2.7	ng/L
Perfluorooctanoic Acid (PFOA)	6.7	ng/L
SVOCs		
1,4-Dioxane	0.35	µg/L
Pesticides		
Alpha-BHC	0.01	µg/l
Metals		
Iron	0.3	mg/L
Magnesium	35	mg/L
Manganese	0.3	mg/L
Sodium	20	mg/L

Analyte	Soil Screening Value[2]	Units
SVOCs		
Benzo(a)pyrene	1,000	µg/kg

Legend

- Existing Monitoring Well
- Newly Installed Monitoring Well
- Groundwater Screening Location
- Soil Borings
- Site Boundary

Notes:
1. Groundwater Screening Criteria from New York State Ambient Water Quality Standards and Guidance Values, June 1998.
- Includes April 2000 and June 2004 Addendum values. (http://www.dec.ny.gov/docs/water_pdf/togs111.pdf).
- Includes March 2023 Final Ambient Water Quality Standards and Guidance Values for PFOS, PFOA, and 1,4-dioxane (Human Health). (https://content.govdelivery.com/accounts/NYSDEC/bulletins/34edc43).
2. Soil Screening Criteria from New York State Department of Environmental Conservation Soil Cleanup Objectives, December 2006.
3. Bold values and highlighted yellow cells are concentrations that exceed the screening values.
4. All groundwater samples collected in 2021 were analyzed for VOCs, 1,4-Dioxane, and MNA parameters. Samples collected from MW-2 and MW-6 were also analyzed for SVOCs, metals, PAHs, pesticides, and PFAS. All groundwater samples collected in 2023 were analyzed for VOCs and PFAS.
5. All soil samples were analyzed for VOCs. Samples collected at BS-11 were also analyzed for SVOCs, metals, PAHs, pesticides, and PFAS.
6. Reporting limits may differ between rounds of sampling data. Reporting limits can be found on Tables 4-1 and 4-5.

Qualifiers:
J = The analyte was positively identified-the associated numerical value is the approximate concentration of the analyte in the sample.
JH = The analyte was positively identified and the associated result is the approximate concentration of the analyte in the sample. The result is biased high.

Acronyms:
FD - field duplicate
ND = non-detect
NE = no exceedences
NS = not sampled
SVOCs = semi-volatile organic compounds
MNA = monitored natural attenuation
PFAS = per- and polyfluoroalkyl substances
PAHs = polycyclic aromatic hydrocarbons

Units:
mg/L = milligram per liter
ng/L = nanograms per liter
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

1 inch = 45 feet

0 20 40 80 Feet

N

CDM Smith

awertwa F:\Speedy's Cleaners\GIS\MXD\Figure4-2 Non-VOC Exceedances in GW and Soil_2021-2023.mxd 10/4/2023

Figure 4-2
Non-VOC Exceedances in Soil and Groundwater
Speedy's Cleaners Site
Pittsford, New York

During the 2021 round of groundwater sampling, groundwater samples were analyzed for PFAS at two wells (MW-2 and MW-6). While a total of 21 PFAS compounds were analyzed in groundwater, only 11 were detected in groundwater at MW-6, and 10 were detected in groundwater at MW-2. Of the 21 PFAS compounds, screening criteria exist only for perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). PFOS and PFOA exceeded the NYSDEC AWQS of 2.7 nanograms per liter (ng/L) and 6.7 ng/L, respectively, in MW-6 (30 J ng/L and 35 ng/L, respectively). Additionally, groundwater samples were analyzed for 1,4-dioxane at eight wells. 1,4-dioxane was detected in and exceeded its NYSDEC AWQS of 0.35 µg/L at MW-2 only (2.9 µg/L).

During the 2023 round of groundwater sampling, groundwater samples were analyzed for PFAS at two wells (MW-3 and MW-5). While a total of 40 PFAS compounds were analyzed in groundwater, only 13 were detected in groundwater at MW-3, and 10 were detected in groundwater at MW-5. PFOS and PFOA exceeded the NYSDEC AWQS in both MW-3 (110 ng/L and 41 ng/L, respectively) and MW-5 (17 J ng/L and 19 ng/L, respectively).

Table 4-2 presents the frequency of detections for VOCs, PFAS, and 1,4-dioxane for on-site samples.

Table 4-2 Frequency of Detections for VOCs, PFAS, and 1,4-dioxane in On-Site Groundwater

Analyte Group	Site-Related Compounds	NYSDEC AWQS	Maximum Concentration Detected	Location of Maximum Concentration Detected	Number of Detects/ Total Samples	Number of Detects above NYSDEC AWQS
2021 On-Site Monitoring Well Sampling Results						
VOCs	cis-1,2-DCE	5 µg/L	680 µg/L	MW-5	2/9	2/9
	PCE	5 µg/L	1,900 µg/L	MW-5	3/9	1/9
	TCE	5 µg/L	95 µg/L	MW-5	1/9	1/9
	Vinyl Chloride	2 µg/L	86 µg/L	MW-3	2/9	2/9
PFAS	PFOA	6.7 ng/L	35 ng/L	MW-6	3/3	2/3
	PFOS	2.7 ng/L	30 J ng/L	MW-6	3/3	2/3
SVOC	1,4-Dioxane	0.35 µg/L	2.9 µg/L	MW-2B	1/9	1/9
2023 On-Site Monitoring Well Sampling Results						
VOCs	cis-1,2-DCE	5 µg/L	68 µg/L	MW-3	3/3	3/3
	PCE	5 µg/L	370 µg/L	MW-5	2/3	2/3
	TCE	5 µg/L	13 µg/L	MW-5	2/3	2/3
	Vinyl Chloride	2 µg/L	39 µg/L	MW-3	1/3	1/3
PFAS	PFOA	6.7 ng/L	41 ng/L	MW-3	3/3	3/3
	PFOS	2.7 ng/L	110 ng/L	MW-3	3/3	3/3

Groundwater samples were not analyzed for 1,4-dioxane in 2023 because this compound was not detected in hydraulically downgradient wells MW-3, MW-5, and MW-6 in 2021. Additionally, there were no detections of 1,4-dioxane in soil collected from the boreholes for monitoring wells MW-5 through MW-8. Therefore, NYSDEC determined that additional downgradient sampling

was not required during the 2023 groundwater sampling because this compound has been delineated at the Site and there is no indication of off-site migration.

Six SVOCs (acenaphthene, dibenzofuran, di-n-butyl phthalate, fluorene, naphthalene, and phenanthrene), nine metals (barium, calcium, cobalt, iron, magnesium, manganese, nickel, potassium, and sodium), and five pesticides (alpha Hexachlorocyclohexane [BHC], *cis*-chlordane, heptachlor, p,p'-DDD, and p,p'-DDE) were detected in groundwater samples. Of these compounds, only iron, magnesium, manganese, sodium, and alpha-BHC were detected above the NYSDEC AWQS.

4.1.2.3 Off-Site Groundwater Data

During the 2023 RI field investigation activities, CDM Smith collected groundwater samples from three off-site groundwater screening locations (GWS-1 through GWS-3) that were later developed into three new off-site monitoring wells (MW-9 through MW-11) and from five off-site groundwater screening locations (GWS-4 through GWS-8) that were not developed into monitoring wells. All samples were analyzed for VOCs and PFAS. Samples from the newly installed off-site wells were analyzed for MNA parameters. VOC results and exceedances of the NYSDEC AWQS are presented in **Figure 4-1** and **Table 4-1**.

In the March 2023 groundwater screening, nine VOCs (benzene, carbon disulfide, *cis*-1,2-DCE, cyclohexane, methylcyclohexane, PCE, TCE, toluene, and vinyl chloride) were detected in groundwater screening samples collected from seven of eight groundwater screening locations. *cis*-1,2-DCE and PCE were detected at concentrations above the NYSDEC AWQS at GWS-2 and GWS-5, and TCE and vinyl chloride were only detected at concentrations above the NYSDEC AWQS at GWS-2. *cis*-1,2-DCE, PCE, TCE, and vinyl chloride concentrations at GWS-2 were 99 µg/L, 220 µg/L, 23 µg/L, and 16 µg/L, respectively, and were higher than concentrations of the same VOCs at GWS-5 (*cis*-1,2-DCE: 14 µg/L; PCE: 17 µg/L; TCE: 1.7 µg/L; vinyl chloride: not detected). *cis*-1,2-DCE and PCE were detected at concentrations below the NYSDEC AWQS at GWS-1 (*cis*-1,2-DCE: 2.3 µg/L; PCE: 3.8 µg/L) and PCE was detected at a concentration below the NYSDEC AWQS at GWS-3 (0.72 J µg/L). Additionally, the following VOCs were detected at five groundwater screening locations at concentrations of 1.2 µg/L or lower: cyclohexane, methylcyclohexane, and toluene at GWS-1; benzene, cyclohexane, methylcyclohexane, and toluene at GWS-5; carbon disulfide, cyclohexane, and methylcyclohexane at GWS-6; carbon disulfide at GWS-7 and GWS-8. No VOCs were detected at GWS-4.

In April 2023, groundwater samples were collected at MW-9 (formerly GWS-1), MW-10 (formerly GWS-2), and MW-11 (formerly GWS-3) after well installation and development were completed at these locations. Four VOCs (*cis*-1,2-DCE, chloroform, PCE, and TCE,) were detected in groundwater samples collected from these three newly installed off-site wells. *cis*-1,2-DCE, PCE, and TCE were only detected at concentrations above the NYSDEC AWQS at MW-10, with concentrations of 56 µg/L, 110 µg/L, and 12 µg/L, respectively. *cis*-1,2-DCE and PCE were detected at concentrations below the NYSDEC AWQS at MW-9, with concentrations of 4.8 µg/L and 4.2 J µg/L, respectively. Vinyl chloride was not detected at any sampling location. Chloroform was only detected at MW-9 at a concentration of 0.56 J µg/L. No VOCs were detected at MW-11.

In addition to VOCs, PFAS were detected in off-site groundwater. The non-VOC concentrations exceeding their respective NYSDEC AWQS are presented on **Figure 4-2**. All results are presented in **Table 4-1**.

During the March 2023 groundwater screening, PFOS was detected in groundwater screening samples collected from five of eight groundwater screening locations, and PFOA was detected at all eight groundwater screening locations. PFOS was detected at concentrations above the NYSDEC AWQS at GWS-1, GWS-2, GWS-3, and GWS-4, while PFOA was detected at concentrations above the NYSDEC AWQS at GWS-1, GWS-2, and GWS-5. PFOS and PFOA concentrations were: 6.3 ng/L and 15 ng/L, respectively, at GWS-1; 28 ng/L and 49 ng/L, respectively, at GWS-2; 15 ng/L and 4.4 ng/L, respectively, at GW-3; 10 ng/L and 4 ng/L, respectively, at GWS-4; and 2.1 J ng/L and 12 ng/L, respectively, at GWS-5. No PFOS or PFOA exceedances were observed at GWS-6, GWS-7, and GWS-8. Eleven other PFAS compounds with no NYSDEC AWQS were observed in various groundwater screening samples, with more PFAS compounds at higher concentrations at groundwater screening locations closer to the Site (GWS-1 through GWS-3) and at hydraulically downgradient locations (GWS-4 and GWS-5). Seven additional PFAS compounds were detected at GWS-1, and concentrations ranged from 2.3 ng/L (perfluorodecanoic acid [PFDA]) to 18 J ng/L (perfluoropentanoic acid [PFPeA]). Ten additional PFAS compounds were detected at GWS-2, and concentrations ranged from 0.45 J ng/L (perfluoroheptane sulfonate [PFHp]) to 160 ng/L (perfluorobutyric acid [PFBA]). Seven additional PFAS compounds were detected at GWS-3, and concentrations ranged from 0.99 J ng/L (perfluoropentanesulfonic acid [PFPES]) to 43 J ng/L (PFPeA). Four additional PFAS compounds were detected at GWS-4, and concentrations ranged from 1 J ng/L (perfluoroheptanoic acid [PFHpA]) to 7.9 ng/L (PFBA). Seven additional PFAS compounds were detected at GWS-5, and concentrations ranged from 0.68 J ng/L (perfluorohexanesulfonic acid) to 16 ng/L (PFPeA). GWS-6 through GWS-8 had a maximum of three PFAS compound detections with concentrations ranging from 0.86 J ng/L (perfluorobutanesulfonic acid at GWS-8) to 62 ng/L (PFBA at GWS-6).

In the April 2023 round of monitoring well sampling, groundwater samples were collected at MW-9 (formerly GWS-1), MW-10 (formerly GWS-2), and MW-11 (formerly GWS-3). While a total of 40 PFAS compounds were analyzed in groundwater, nine were detected in groundwater at MW-9, 10 were detected in groundwater at MW-10, and five were detected in groundwater at MW-11. PFOS was detected at concentrations above the NYSDEC AWQS at MW-9 and MW-10, while PFOA was only detected at concentrations above the NYSDEC AWQS at MW-10. PFOS and PFOA concentrations were: 5.3 ng/L and 4.6 ng/L, respectively, at MW-9; 17 ng/L and 31 ng/L, respectively, at MW-10; and not detected and 1.6 J ng/L, respectively, at MW-11. Eight other PFAS compounds with no NYSDEC AWQS were observed in monitoring well samples. Seven additional PFAS compounds were detected at MW-9, and concentrations ranged from 0.82 J ng/L (perfluorononanoic acid) to 9.6 ng/L (PFBA). Eight additional PFAS compounds were detected at MW-10, and concentrations ranged from 1.1 J ng/L (perfluorononanoic acid) to 82 ng/L (PFBA). Four additional PFAS compounds were detected at MW-11, and concentrations ranged from 0.45 J ng/L (PFPES) to 40 ng/L (PFBA).

Table 4-3 presents the frequency of detections for VOCs and PFAS for off-site samples.

Table 4-3 Frequency of Detections for VOCs and PFAS in Off-Site Groundwater

Analyte Group	Site-Related Compounds	NYSDEC AWQS	Maximum Concentration Detected	Location of Maximum Concentration Detected	Number of Detects/ Total Samples	Number of Detects above NYSDEC AWQS
March 2023 Groundwater Screening Results						
VOCs	cis-1,2-DCE	5 µg/L	99 µg/L	GWS-2	4/9	3/9
	PCE	5 µg/L	220 µg/L	GWS-2	5/9	3/9
	TCE	5 µg/L	23 µg/L	GWS-2	3/9	2/9
	Vinyl Chloride	2 µg/L	16 µg/L	GWS-2	2/9	2/9
PFAS	PFOA	6.7 ng/L	49 ng/L	GWS-2	9/9	4/9
	PFOS	2.7 ng/L	28 ng/L	GWS-2	6/9	5/9
April 2023 Monitoring Well Sampling Results						
VOCs	cis-1,2-DCE	5 µg/L	56 µg/L	MW-10	2/3	1/3
	PCE	5 µg/L	110 µg/L	MW-10	2/3	1/3
	TCE	5 µg/L	12 µg/L	MW-10	1/3	1/3
	Vinyl Chloride	2 µg/L	Not detected	None	0/3	0/3
PFAS	PFOA	6.7 ng/L	31 ng/L	MW-10	3/3	1/3
	PFOS	2.7 ng/L	17 ng/L	MW-10	2/3	2/3

4.1.2.4 Historical and Current VOC Concentration Comparison

2002 to 2023 – On-Site Wells

While levels of PCE and its degradation products remained above the NYSDEC AWQS in April 2023, concentrations have decreased substantially in the potential source area north of the north corner of the Speedy's Cleaners building since 2002. The maximum Site concentration of PCE has decreased from 5,900 µg/L at BW-4 in 2002 to 370 µg/L at MW-5 in 2023. MW-5 is located approximately 10 to 15 feet northeast and is hydraulically downgradient of BW-4. TCE and *cis*-1,2-DCE concentrations have decreased over 90 percent and by one order of magnitude from 2002 to 2023 at these locations, while vinyl chloride was not detected at MW-5 in 2023. TCE concentrations were 180 µg/L at BW-4 in 2002 and 13 µg/L at MW-5 in 2023. *cis*-1,2-DCE concentrations were 610 µg/L at BW-4 in 2002 and 46 µg/L at MW-5 in 2023. Vinyl chloride was detected at a concentration of 84 J µg/L at BW-4 in 2002 and was not detected at MW-5 in 2023.

The maximum TCE, *cis*-1,2-DCE, and vinyl chloride concentrations occurred at BW-9 in 2002 (580 µg/L, 64,000 µg/L, and 9,200 µg/L, respectively). In 2023, the maximum concentrations of *cis*-1,2-DCE and vinyl chloride were detected at MW-3 (68 µg/L and 39 µg/L, respectively). The maximum TCE concentration of 13 µg/L occurred at MW-5. The 2023 TCE concentration is one order of magnitude lower than the 2002 concentration, and the 2023 *cis*-1,2-DCE and vinyl chloride concentrations are two orders of magnitude lower than the 2002 concentrations.

The only well sampled in both 2002 and 2023 was MW-3 (BW-7). In 2002, PCE, *cis*-1,2-DCE, and vinyl chloride concentrations were 120 µg/L, 6,700 µg/L, and 4,000 µg/L, respectively. By 2023, PCE was not detected at this well. Additionally, *cis*-1,2-DCE decreased to 68 µg/L and vinyl chloride decreased to 39 µg/L by April 2023, concentrations that were two orders of magnitude

lower than those detected in 2002. TCE was not detected during either sampling event at this well.

In 2002, PCE and its degradation products were detected at BW-8 at concentrations above the NYSDEC AWQS. *cis*-1,2-DCE and vinyl chloride concentrations were greater than one order of magnitude above the screening criteria. PCE and TCE were detected above the screening criteria at lower concentrations than *cis*-1,2-DCE and vinyl chloride. No VOCs were detected at MW-2B, the closest existing monitoring well to BW-8, in 2005 or in 2021.

In 2005, concentrations of PCE and TCE at MW-3B were 94 B µg/L and 46 µg/L, respectively. By 2021, these compounds were not detected at this well, which is located on the east corner of the building.

Table 4-4 provides comparisons of PCE, TCE, *cis*-1,2-DCE, and vinyl chloride concentrations at 2002 water boring locations and the closest associated monitoring well sampled during the 2021 and 2023 RI activities.

Table 4-4 Comparison of PCE, TCE, *cis*-1,2-DCE, and Vinyl Chloride Concentrations in On-Site Groundwater

Water Boring Location Sampled in 2002	Monitoring Well Sampled in 2021 or 2023 Nearest to 2002 Water Boring Location	PCE Concentration 2002; 2021 or 2023[1,2] (µg/L)	TCE Concentration 2002; 2021 or 2023[1,2] (µg/L)	*cis*-1,2-DCE Concentration 2002; 2021 or 2023[1,2] (µg/L)	Vinyl Chloride Concentration 2002; 2021 or 2023[1,2] (µg/L)
NYSDEC AWQS		5	5	5	2
BW-1	MW-7	ND; 0.96 J	ND; ND	ND; ND	ND; ND
BW-2	MW-2[3]	ND; ND	ND; ND	3; ND	ND; ND
BW-3	MW-7	3.9 J; ND	ND; ND	1; ND	2.4 J; ND
BW-4	MW-5	5,900; 370	180; 13	610; 46	84 J; ND
BW-5	MW-6	130 J; ND	ND; ND	ND; ND	ND; ND
BW-6	MW-5	2,400; 370	350; 13	2,700; 46	1,200; ND
BW-7	MW-3[3]	120; ND	ND; ND	6,700; 68	4,000; 39
BW-8	MW-2B	28; ND	9.2; ND	180; ND	130; ND
BW-9	MW-3	483; ND	580; ND	64,000; 68	9,200; 39
BW-10	None	140*	3.7*	14*	2*
PA-1	None	ND*	ND*	2.4*	ND*

[1] 2002 data reported in PSA Report (NYSDEC 2003).
[2] The most recent data set between 2021 and 2023 is displayed on this table.
[3] 2002 and 2021/2023 locations are identical.
* Concentration from sample collected in 2002. There was no representative 2021/2023 sample for comparison.

June 2021 to April 2023 – On-Site Wells

Although still above the NYSDEC AWQS, concentrations of *cis*-1,2-DCE, PCE, TCE, and vinyl chloride concentrations decreased substantially at MW-3 and MW-5 between June 2021 and April 2023. At MW-5, *cis*-1,2-DCE and PCE concentrations decreased by one order of magnitude (*cis*-1,2-DCE: 680 µg/L decreased to 46 µg/L; PCE: 1,900 µg/L decreased to 370 µg/L), TCE concentrations decreased by over 85 percent (95 µg/L to 13 µg/L), and vinyl chloride, while detected in 2021 (48 µg/L), was not detected in April 2023. At MW-3, *cis*-1,2-DCE concentrations

decreased by one order of magnitude (150 µg/L to 68 µg/L), vinyl chloride concentrations decreased by approximately half (86 µg/L to 39 µg/L), and PCE, while detected in 2021 (1.5 J µg/L), was not detected in 2023. TCE was not detected in samples collected in 2021 or 2023 at MW-3.

March 2023 to April 2023 – Off-Site Wells and Groundwater Screening Locations

VOC concentrations were lower at MW-10 (formerly GWS-2) in March 2023 groundwater screening compared to the April 2023 monitoring well sampling (*cis*-1,2-DCE: 99 µg/L to 56 µg/L; PCE: 220 µg/L to 110 µg/L; TCE: 23 µg/L to 12 µg/L; vinyl chloride: 16 µg/L to not detected). MW-10 was the only off-site monitoring well with VOC detections above the NYSDEC AWQS. *cis*-1,2-DCE and PCE concentrations, while low, were similar at MW-9 (formerly GWS-1) during this time period (*cis*-1,2-DCE: 2.3 µg/L to 4.8 µg/L; PCE: 3.8 µg/L to 4.2 J µg/L). PCE was the only VOC detected at MW-11 (formerly GWS-3) during March 2023 groundwater screening (0.72 J µg/L); PCE was not detected at MW-11 during April 2023 monitoring well sampling.

Differences in groundwater screening and monitoring well results are likely due to differences in water quality at the time of sampling. While the two datasets are compared in this RI, groundwater screening results are considered less definitive than monitoring well results due to potentially impacted water quality (e.g., increased turbidity) within the groundwater screening samples after boring advancement using DPT. Monitoring wells were developed to minimize turbidity, and therefore, the groundwater samples collected from these wells are more representative of existing groundwater conditions.

4.1.3 Extent of VOCs in Groundwater

The investigation activities conducted during this RI allowed for an updated delineation of VOC impacts in groundwater on-site and off-site. Concentrations of VOCs detected on-site exceeded the NYSDEC AWQS by one to two orders of magnitude within and hydraulically downgradient of the potential source area north of the northern corner of the building. These concentrations approach the NYSDEC AWQS with increasing distance from the source area. VOC concentrations in all other directions did not exceed the NYSDEC AWQS. The results and exceedances associated with the VOCs in groundwater are provided on **Figure 4-1**.

Samples collected in 2002 indicate the historical area of high VOC contamination began near the north corner of the Speedy's Cleaners building (BW-9), a potential source area of contamination, and traveled to the northeast along with groundwater flow (as evidenced by high VOC concentrations at BW-6; see **Figures 3-3** and **3-4** and Figure A-2 in **Appendix A**). Contamination extended to the east with low concentrations at BW-3, to the southwest to BW-8, and to the north to BW-10. While VOC concentrations were lower at BW-8 and BW-10 than at BW-4 and BW-9, PCE and its degradation products were still present at these locations at concentrations that were up to one order of magnitude above the NYDEC AWQS. Due to a lack of sampling points, the western to northeastern edge of the VOC extent in groundwater could not be conclusively delineated based on these data. However, based on VOC concentrations at the most northeastern and western water boring locations and the groundwater flow direction, the VOC contamination likely extended to the northeast and spread only minimally laterally to the west.

Samples collected in 2021 and 2023 from on-site wells indicate the area of highest VOC contamination remains to the north of the north corner of the building in a potential source area of contamination. PCE and its degradation products were detected above their respective NYSDEC AWQS at MW-5 and MW-3 only, with a concentration of PCE below the NYSDEC AWQS at MW-3. Concentrations of PCE were highest at MW-5, the northern-most and western-most on-site well sampled in 2023, while concentrations of *cis*-1,2-DCE and TCE were highest at MW-3. PCE concentrations were two orders of magnitude greater than the NYSDEC AWQS, and *cis*-1,2-DCE, TCE, and vinyl chloride concentrations were one order of magnitude greater than the NYSDEC AWQS. Despite 2021 and 2023 concentrations of PCE and its degradation products that were greater than the NYSDEC AWQS, VOC concentrations have decreased sitewide between 2002 and 2023 and in the potential source area north of the northern corner of the building between 2021 and 2023. This concentration decrease indicates PCE and its degradation products may be naturally declining as a result of biotic or abiotic factors.

Samples were collected from eight groundwater screening locations (GWS-1 through GWS-8) in March 2023. Three off-site wells (MW-9 through MW-11) were then installed and developed at the groundwater screening locations GWS-1 through GWS-3. These monitoring wells were sampled in April 2023 to obtain the data needed to delineate the western to eastern extent of off-site VOC contamination. VOC concentrations in samples collected from both off-site groundwater screening locations and monitoring wells were highest at MW-10 (formerly GWS-2), approximately 45 feet northeast of MW-5 and hydraulically downgradient from the potential source area north of the northern corner of the building. VOC concentrations in samples collected at MW-10 were one to two orders of magnitude above the NYSDEC AWQS. VOC concentrations were less than one order of magnitude above the NYSDEC AWQS at GWS-5, approximately 80 feet northeast and hydraulically downgradient of MW-10 (formerly GWS-2), indicating VOC contamination extends to the northeast of GWS-5. Therefore, the northeastern extent of VOC contamination cannot be conclusively delineated, however concentrations at this location are approaching the NYSDEC AWQS criteria.

Samples collected at groundwater screening locations and monitoring wells that were hydraulically cross-gradient to the potential source area had few, if any, VOC detections, and no exceedances of the NYSDEC AWQS. Samples collected from groundwater screening locations to the east of GWS-5 (GWS-6 through GWS-8) and from MW-11 had no detections of PCE or its degradation products in April 2023. The groundwater sample collected from MW-9 (west of MW-10) contained concentrations of PCE and *cis*-1,2-DCE below the NYSDEC AWQS, and TCE and vinyl chloride were not detected. Based on these off-site data, the extent of VOC contamination to the west, northwest, and east can be delineated based on 2023 VOC concentrations.

With the exception of a detection of PCE below the NYSDEC AWQS at MW-7 (adjacent to the east corner of the building and approximately 75 feet southeast of MW-3; see **Figure 4-1**) and a detection of methylcyclohexane at MW-6 (approximately 25 feet southeast and hydraulically cross-gradient of MW-3), VOCs were not detected at any on-site locations aside from MW-5 and MW-3 in 2021 and 2023. VOCs were not detected in groundwater at MW-2B in 2021, the well closest in location to the 2002 water boring BW-8, which had PCE, TCE, and *cis*-1,2-DCE concentrations above the NYSDEC AWQS. Similarly, VOCs were not detected above the NYSDEC AWQS at MW-6 or MW-7, the wells located on either side (to the northwest and southeast,

respectively) of 2002 water boring BW-3, which had a vinyl chloride concentration slightly above the NYSDEC AWQS and PCE and *cis*-1,2-DCE concentrations below the NYSDEC AWQS. The absence of VOCs in MW-2B, MW-6, and MW-7 may indicate that PCE and its degradation products have been naturally declining as a result of biotic or abiotic factors.

MW-3B, located at the east corner of the building along the southeastern wall, contained high PCE and TCE concentrations in 2005 (94 B µg/L and 46 µg/L, respectively) that exceeded the NYSDEC AWQS of 5 µg/L. By 2021, VOCs were not detected at this well, possibly indicating successful degradation of PCE and its products. VOCs were not detected at MW-4B, located at the south corner of the building, in 2005. Samples were not collected in this area in 2021 or 2023.

In 2002, *cis*-1,2-DCE was detected below the NYSDEC AWQS (3 µg/L) in MW-2, the most hydraulically upgradient Site well. By 2021, all VOCs in this well were below detection limits. MW-2 has historically contained no PCE, TCE, or vinyl chloride, indicating that an off-site contaminant source does not exist.

MW-1B, located to the north of the former UST (see **Figure 1-2**), contained PCE and TCE concentrations (64 B µg/L and 30 µg/L, respectively) above the NYSDEC AWQS in 2005. While groundwater samples were not collected in this area in 2002, the sample collected at MW-2 (southeast of MW-1B and the most hydraulically upgradient Site well) contained a low *cis*-1,2-DCE concentration (3 µg/L). By 2021, VOCs were not detected in this well. Furthermore, VOC detections were not present in MW-2B in 2005 or in 2021. In 1998, the UST was removed, and in 1999, soils were excavated around the former UST. Because the extent of this excavation is unknown, it is not possible to determine if soils surrounding MW-1B were affected by this remedial action. It is possible that the presence of VOCs in MW-1B was related to the free product leaked by the UST prior to removal. MW-1B has been abandoned and no other monitoring wells exist in the vicinity; therefore, it is not possible to determine if localized VOC contamination in groundwater is present in this area without the installation of an additional groundwater monitoring point.

Soils below the Site are primarily lacustrine silts to 14 feet bgs, underlain by tightly compacted glacial till. During 2021 on-site well installation activities, DPT borings encountered refusal between 14 and 19 feet bgs, while refusal was encountered between 8 and 19 feet bgs during 2023 off-site well installation activities. Refusal was due to the dense, tightly compacted nature of the till, and because of its low porosity, the substrate was typically moist to dry at refusal depths. Therefore, groundwater impacted by Site contamination ranges from the surface of the water table to approximately 19 feet bgs, where glacial till appears to become too dense for groundwater to significantly permeate.

4.2 Impacts to Soil

4.2.1 Selection of Standards, Criteria, and Guidance

Relevant New York State SCGs were reviewed for each media sampled and screening criteria for the Site were selected. The soil analytical results were compared to the commercial use soil cleanup objectives (SCOs) listed in 6 New York Codes, Rules and Regulations (NYCRR) Part 375 (Environmental Remediation Programs) Subpart 375-6 (NYSDEC 2006).

4.2.2 Site-Related Contaminants

Site-related contaminants were selected by evaluating historical information on contaminant sources, exceedances of SCOs, the frequency and magnitude of the exceedances, and background concentrations. Due to the history of Site use, the contaminants focused on during this investigation were PCE and its degradation products, TCE, *cis*-1,2-DCE, and vinyl chloride. Additionally, PFAS and 1,4-dioxane were analyzed due to their characterization as emerging contaminants. Although all other detected contaminants were also subject to the media-specific screening process, they are not discussed in detail because they are not Site-related contaminants.

CDM Smith reviewed the analytical data collected from soil boring locations completed during a 1998 environmental assessment of the RG&E property, a 1999 extent of a contamination investigation, the 2002 PSA, and in support of the 2005 FER; analyzed the historic spatial distribution of contamination and detection frequencies/levels for the Site; and compared those results to data collected in 2021 in support of this RI. While VOCs were analyzed in the PSA dataset, PFAS and 1,4-dioxane were not; therefore, comparisons between historical and current datasets cannot be made for these emerging contaminants.

4.2.2.1 Historical Soils Data

In a 1998 environmental assessment of the RG&E property by Day Environmental, Inc., a soil sample (TB-2) was collected from 2 to 4 feet bgs from the area adjacent to the building's vent pipes, located near the roof line in the middle of the northeastern wall (see Figure A-1 in **Appendix A**). PCE and TCE concentrations at this location were 10,500 µg/kg and 1,275 µg/kg, respectively. These vent pipes have since been removed (NYSDEC 2003).

In 1999, a soil sample (BH-1) was collected from 3 to 4 feet bgs in the potential source area of contamination adjacent to the north corner of the building (see Figure A-1 in **Appendix A**). PCE and TCE concentrations were 748,000 µg/kg and 5,409 µg/kg, respectively (NYSDEC 2003). PCE exceeded the current NYSDEC Commercial Use criteria of 150,000 µg/kg.

During the PSA conducted in 2002, PCE and *cis*-1,2-DCE exceeded the project soil cleanup objectives (1,400 µg/kg for PCE and 300 µg/kg for *cis*-1,2-DCE based on Technical Guidance Memorandum 94-406, NYSDEC, 1994) in 4 of 11 soil boring locations. These soil borings were co-located with water borings discussed in Section 4.1.2.1 (see Figure A-2 in **Appendix A**; NYSDEC 2003). When compared to current NYSDEC Commercial Use criteria, no exceedances of Site-related compounds occurred at any soil boring. Site-related compound detection frequencies are as follows:

- PCE – detections at 6 of 10 locations
- TCE – detections at 2 of 10 locations
- *cis*-1,2-DCE – detections at 3 of 10 locations
- Vinyl chloride – detections at 2 of 10 locations

All detections of Site-related compounds occurred at soil boring locations in the northern portion of the Site. Soil boring sample locations are displayed on Figure A-2 in **Appendix A**. PCE (111,000 µg/kg) and *cis*-1,2-DCE (4,200 µg/kg) concentrations were highest from 3 to 4 feet bgs at BS-9, the potential source area of contamination located adjacent to the north corner of the building. The PCE concentration decreased significantly in the 6 to 6.5 feet bgs interval (8,500 µg/kg) at this location while *cis*-1,2-DCE was not detected. The next highest PCE concentration occurred at BS-4 (22,000 µg/kg at 10 to 10.5 feet bgs), located approximately 25 to 30 feet north of BS-9, and was nearly an order of magnitude lower than that at BS-9. Soil samples to the east, west, and northeast of BS-4 and BS-9 had PCE concentrations (690 µg/kg to 4,200 µg/kg) that were one order of magnitude lower than the concentration at BS-4. PCE (1,300 µg/kg) and TCE (180 µg/kg) were detected at BS-6 from 7 to 8 feet bgs, the only off-site soil boring, located to the northeast and topographically downgradient of the Site on the Oak Hill Country Club property. Vinyl chloride was detected at one location (BS-8) at a concentration of 130 µg/kg in the 11 to 12 feet bgs interval, along with PCE (4,200 µg/kg) and TCE (3,100 µg/kg) (NYSDEC 2003).

During soil sampling conducted in 2005 in support of the FER, samples were collected at boreholes for wells MW-1B, MW-2B, MW-3B, and MW-4B (see Figure A-4 in **Appendix A**). PCE (670 D µg/kg), TCE (3 J µg/kg), and *cis*-1,2-DCE (3 J µg/kg) concentrations were highest at the MW-2B borehole. This sample was collected closest to the potential source area of contamination located north of the north corner of the Speedy's Cleaners building. PCE concentrations were lower at MW-3B (2 to 6 feet bgs) and MW-4B (8 to 10 feet bgs) boreholes, with concentrations of 5 µg/kg and 4 µg/kg, respectively. Site-related compounds were not detected at the MW-1B borehole (6 to 8 feet bgs), the area most likely affected by the 1998 soil excavation activities. Vinyl chloride was not analyzed in these samples (Passero 2012).

4.2.2.2 RI Soils Data

During the 2021 round of RI field investigation activities, CDM Smith collected soil samples from four boreholes on the RG&E property. All samples were analyzed for VOCs and 1,4-dioxane. Samples from one location (BS-11) were also analyzed for PFAS, SVOCs, pesticides, PCBs, and metals. Samples were collected between 10 and 14 feet bgs. Soil analytical results are presented on **Figure 4-2** and in **Table 4-5**.

Table 4-5
Soil Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	BS-11	BS-11	BS-12	BS-13	BS-14
			Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221	828109-BS-12-14-15-060221	828109-BS-13-10-12-060121	828109-BS-14-10-11-060121
			Start Depth	13	13	14	10	10
			End Depth	14	14	15	12	11
			Depth Unit	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N
			Parent Sample #		828109-BS-11-13-14-060221			
			Sample Date	6/2/2021	6/2/2021	6/2/2021	6/1/2021	6/1/2021
Analyte	**CAS #**	**Soil Screening Value[1]**	**Units**					
VOCs								
1,1,1-Trichloroethane	71-55-6	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,1,2,2-Tetrachloroethane	79-34-5	--	µg/kg	1200 UT	6 U	500 U	1300 U	500 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,1,2-Trichloroethane	79-00-5	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,1-Dichloroethane	75-34-3	240000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,1-Dichloroethene	75-35-4	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,2,4-Trichlorobenzene	120-82-1	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,2-Dibromo-3-Chloropropane	96-12-8	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,2-Dichlorobenzene	95-50-1	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,2-Dichloroethane	107-06-2	30000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,2-Dichloropropane	78-87-5	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,3-Dichlorobenzene	541-73-1	280000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
1,4-Dichlorobenzene	106-46-7	130000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
2-Hexanone	591-78-6	--	µg/kg	6200 U	30 U	2500 U	6600 U	2500 U
Acetone	67-64-1	500000	µg/kg	6200 U	30 U	2500 U	6600 U	2500 U
Benzene	71-43-2	44000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Bromodichloromethane	75-27-4	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Bromoform	75-25-2	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Bromomethane	74-83-9	--	µg/kg	1200 U	6 UJ	500 U	1300 U	500 U
Carbon Disulfide	75-15-0	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Carbon Tetrachloride	56-23-5	22000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Chlorobenzene	108-90-7	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Chloroethane	75-00-3	--	µg/kg	1200 UT	6 UJ	500 U	1300 U	500 U
Chloroform	67-66-3	350000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Chloromethane	74-87-3	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Cis-1,2-Dichloroethylene	156-59-2	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Cis-1,3-Dichloropropene	10061-01-5	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Cyclohexane	110-82-7	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Dibromochloromethane	124-48-1	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Dichlorodifluoromethane	75-71-8	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Ethylbenzene	100-41-4	390000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Isopropylbenzene (Cumene)	98-82-8	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Methyl Acetate	79-20-9	--	µg/kg	6200 U	30 U	2500 U	6600 U	2500 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	500000	µg/kg	6200 U	30 U	2500 U	6600 U	2500 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	--	µg/kg	6200 U	30 U	2500 U	6600 U	2500 U
Methylcyclohexane	108-87-2	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Methylene Chloride	75-09-2	500000	µg/kg	1200 U	4.2 J	500 U	1300 U	500 U
Styrene	100-42-5	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Tert-Butyl Methyl Ether	1634-04-4	500000	µg/kg	1200 UT	6 U	500 U	1300 U	500 U

Table 4-5
Soil Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	BS-11	BS-11	BS-12	BS-13	BS-14
			Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221	828109-BS-12-14-15-060221	828109-BS-13-10-12-060121	828109-BS-14-10-11-060121
			Start Depth	13	13	14	10	10
			End Depth	14	14	15	12	11
			Depth Unit	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N
			Parent Sample #		828109-BS-11-13-14-060221			
			Sample Date	6/2/2021	6/2/2021	6/2/2021	6/1/2021	6/1/2021
Analyte	**CAS #**	**Soil Screening Value[1]**	**Units**					
Tetrachloroethylene (PCE)	127-18-4	150000	µg/kg	1200 U	11 JL	500 U	1300 U	500 U
Toluene	108-88-3	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Trans-1,2-Dichloroethene	156-60-5	500000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Trans-1,3-Dichloropropene	10061-02-6	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Trichloroethylene (TCE)	79-01-6	200000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Trichlorofluoromethane	75-69-4	--	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Vinyl Chloride	75-01-4	13000	µg/kg	1200 U	6 U	500 U	1300 U	500 U
Xylenes	1330-20-7	500000	µg/kg	2500 U	12 U	1000 U	2700 U	1000 U
PFAS								
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	--	µg/kg	2.3 U	2.3 U			
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	2991-50-6	--	µg/kg	2.3 U	2.3 U			
Perfluorobutanesulfonic acid	375-73-5	--	µg/kg	0.23 U	0.23 U			
Perfluorobutyric acid (PFBA)	375-22-4	--	µg/kg	0.58 U	0.58 U			
Perfluorodecane sulfonic acid	335-77-3	--	µg/kg	0.23 U	0.23 U			
Perfluorodecanoic acid (PFDA)	335-76-2	--	µg/kg	0.23 U	0.23 U			
Perfluorododecanoic acid (PFDoA)	307-55-1	--	µg/kg	0.23 U	0.23 U			
Perfluoroheptane sulfonate (PFHpS)	375-92-8	--	µg/kg	0.23 U	0.23 U			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	--	µg/kg	0.23 U	0.23 U			
Perfluorohexanesulfonic acid	355-46-4	--	µg/kg	0.23 U	0.23 U			
Perfluorohexanoic acid (PFHxA)	307-24-4	--	µg/kg	0.23 U	0.23 U			
Perfluorononanoic acid	375-95-1	--	µg/kg	0.23 U	0.23 U			
Perfluorooctane Sulfonamide (FOSA)	754-91-6	--	µg/kg	0.23 U	0.23 U			
Perfluorooctane sulfonic acid	1763-23-1	--	µg/kg	0.23 U	0.23 U			
Perfluorooctanoic acid (PFOA)	335-67-1	--	µg/kg	0.23 U	0.23 U			
Perfluoropentanoic acid (PFPeA)	2706-90-3	--	µg/kg	0.23 U	0.23 U			
Perfluorotetradecanoic acid (PFTeA)	376-06-7	--	µg/kg	0.23 U	0.23 U			
Perfluorotridecanoic acid (PFTriA)	72629-94-8	--	µg/kg	0.23 U	0.23 U			
Perfluoroundecanoic acid (PFUnA)	2058-94-8	--	µg/kg	0.23 U	0.23 U			
Sodium 1H,1H,2H,2H-perfluorodecane sulfonate (8:2)	39108-34-4	--	µg/kg	2.3 U	2.3 U			
Sodium 1H,1H,2H,2H-perfluorooctane sulfonate (6:2)	27619-97-2	--	µg/kg	2.3 U	2.3 U			
1,4-Dioxane								
1,4-Dioxane (P-Dioxane)	123-91-1	130000	µg/kg	570 U	600 U	120 U	120 U	110 U
Metals								
Aluminum	7429-90-5	--	mg/kg	10300 JH	9640 JH			
Antimony	7440-36-0	--	mg/kg	18.5 UJ	19 UJ			
Arsenic	7440-38-2	16	mg/kg	4.6	4.3			
Barium	7440-39-3	400	mg/kg	47.1	48.8 JH			
Beryllium	7440-41-7	590	mg/kg	0.37 J	0.4 J			
Cadmium	7440-43-9	9.3	mg/kg	0.15 J	0.23 J			
Calcium	7440-70-2	--	mg/kg	29100 T	10500			
Chromium, Total	7440-47-3	--	mg/kg	14.8 J	11.8			

Table 4-5
Soil Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	BS-11	BS-11	BS-12	BS-13	BS-14
			Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221	828109-BS-12-14-15-060221	828109-BS-13-10-12-060121	828109-BS-14-10-11-060121
			Start Depth	13	13	14	10	10
			End Depth	14	14	15	12	11
			Depth Unit	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N
			Parent Sample #		828109-BS-11-13-14-060221			
			Sample Date	6/2/2021	6/2/2021	6/2/2021	6/1/2021	6/1/2021
Analyte	**CAS #**	**Soil Screening Value[1]**	**Units**					
Cobalt	7440-48-4	--	mg/kg	6.2	7.1			
Copper	7440-50-8	270	mg/kg	28 J	13.8 J			
Iron	7439-89-6	--	mg/kg	14500	15400 JH			
Lead	7439-92-1	1000	mg/kg	23.1 T	14.5			
Magnesium	7439-95-4	--	mg/kg	13100 T	7240 JH			
Manganese	7439-96-5	10000	mg/kg	393 JH	793 JH			
Nickel	7440-02-0	310	mg/kg	13.1 J	14.6			
Potassium	7440-09-7	--	mg/kg	1580 JH	1930 JH			
Selenium	7782-49-2	1500	mg/kg	0.61 J	0.99 J			
Silver	7440-22-4	1500	mg/kg	0.74 UJ	0.76 UJ			
Sodium	7440-23-5	--	mg/kg	161 J	161 J			
Thallium	7440-28-0	--	mg/kg	7.4 U	7.6 U			
Vanadium	7440-62-2	--	mg/kg	19.1 J	20 J			
Zinc	7440-66-6	10000	mg/kg	48.5 J	76.3 J			
Aldrin	309-00-2	680	µg/kg	1.9 UJ	2 UJ			
Pesticides								
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	3400	µg/kg	1.9 UJ	2 UJ			
Alpha Endosulfan	959-98-8	200000	µg/kg	1.9 UJ	2 UJ			
Beta BHC (Beta Hexachlorocyclohexane)	319-85-7	3000	µg/kg	1.9 UJ	2 UJ			
Beta Endosulfan	33213-65-9	200000	µg/kg	1.9 UJ	2 UJ			
cis-Chlordane	5103-71-9	24000	µg/kg	14 J	3.4 J			
Delta BHC (Delta Hexachlorocyclohexane)	319-86-8	500000	µg/kg	1.9 UJ	2 UJ			
Dieldrin	60-57-1	1400	µg/kg	1.9 UJ	2 UJ			
Endosulfan Sulfate	1031-07-8	200000	µg/kg	1.9 UJ	2 UJ			
Endrin	72-20-8	89000	µg/kg	1.9 UJ	2 UJ			
Endrin Aldehyde	7421-93-4	--	µg/kg	1.9 UJ	2 UJ			
Endrin Ketone	53494-70-5	--	µg/kg	1.9 UJ	2 U			
Gamma BHC (Lindane)	58-89-9	9200	µg/kg	1.9 UJ	2 UJ			
Heptachlor	76-44-8	15000	µg/kg	1.9 UJ	2 UJ			
Heptachlor Epoxide	1024-57-3	--	µg/kg	1.9 UJ	2 UJ			
Methoxychlor	72-43-5	--	µg/kg	1.7 J	2 UJ			
P,P'-DDD	72-54-8	92000	µg/kg	1.9 UJ	2 UJ			
P,P'-DDE	72-55-9	62000	µg/kg	1.9 UJ	2 UJ			
P,P'-DDT	50-29-3	47000	µg/kg	1.9 U	2 U			
Toxaphene	8001-35-2	--	µg/kg	19 UJ	20 UJ			

Table 4-5
Soil Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	BS-11	BS-11	BS-12	BS-13	BS-14
			Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221	828109-BS-12-14-15-060221	828109-BS-13-10-12-060121	828109-BS-14-10-11-060121
			Start Depth	13	13	14	10	10
			End Depth	14	14	15	12	11
			Depth Unit	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N
			Parent Sample #		828109-BS-11-13-14-060221			
			Sample Date	6/2/2021	6/2/2021	6/2/2021	6/1/2021	6/1/2021
Analyte	**CAS #**	**Soil Screening Value[1]**	**Units**					
trans-Chlordane	5103-74-2	--	µg/kg	11 J	2.8 J			
PCBs								
PCB-1016 (Aroclor 1016)	12674-11-2	1000	µg/kg	260 UJ	300 UJ			
PCB-1221 (Aroclor 1221)	11104-28-2	1000	µg/kg	260 U	300 U			
PCB-1232 (Aroclor 1232)	11141-16-5	1000	µg/kg	260 U	300 U			
PCB-1242 (Aroclor 1242)	53469-21-9	1000	µg/kg	260 U	300 U			
PCB-1248 (Aroclor 1248)	12672-29-6	1000	µg/kg	260 U	300 U			
PCB-1254 (Aroclor 1254)	11097-69-1	1000	µg/kg	260 U	300 U			
PCB-1260 (Aroclor 1260)	11096-82-5	1000	µg/kg	260 UJ	300 UJ			
SVOCs								
2,4,5-Trichlorophenol	95-95-4	--	µg/kg	960 U	1000 U			
2,4,6-Trichlorophenol	88-06-2	--	µg/kg	960 U	1000 U			
2,4-Dichlorophenol	120-83-2	--	µg/kg	960 U	1000 U			
2,4-Dimethylphenol	105-67-9	--	µg/kg	960 U	1000 U			
2,4-Dinitrophenol	51-28-5	--	µg/kg	9400 R	9900 R			
2,4-Dinitrotoluene	121-14-2	--	µg/kg	960 U	1000 U			
2,6-Dinitrotoluene	606-20-2	--	µg/kg	960 U	1000 U			
2-Chloronaphthalene	91-58-7	--	µg/kg	960 U	1000 U			
2-Chlorophenol	95-57-8	--	µg/kg	1900 U	2000 U			
2-Methylnaphthalene	91-57-6	--	µg/kg	960 U	1000 U			
2-Methylphenol (O-Cresol)	95-48-7	500000	µg/kg	960 U	1000 U			
2-Nitroaniline	88-74-4	--	µg/kg	1900 U	2000 U			
2-Nitrophenol	88-75-5	--	µg/kg	960 U	1000 U			
3,3'-Dichlorobenzidine	91-94-1	--	µg/kg	1900 U	2000 U			
3-Nitroaniline	99-09-2	--	µg/kg	1900 U	2000 U			
4,6-Dinitro-2-Methylphenol	534-52-1	--	µg/kg	1900 U	2000 U			
4-Bromophenyl Phenyl Ether	101-55-3	--	µg/kg	960 U	1000 U			
4-Chloro-3-Methylphenol	59-50-7	--	µg/kg	960 U	1000 U			
4-Chloroaniline	106-47-8	--	µg/kg	960 U	1000 U			
4-Chlorophenyl Phenyl Ether	7005-72-3	--	µg/kg	960 U	1000 U			
4-Methylphenol (P-Cresol)	106-44-5	500000	µg/kg	1900 U	2000 U			
4-Nitroaniline	100-01-6	--	µg/kg	1900 U	2000 U			
4-Nitrophenol	100-02-7	--	µg/kg	1900 U	2000 U			
Acenaphthene	83-32-9	500000	µg/kg	960 U	1000 U			
Acenaphthylene	208-96-8	500000	µg/kg	960 U	380 J			
Acetophenone	98-86-2	--	µg/kg	960 U	1000 U			
Anthracene	120-12-7	500000	µg/kg	960 U	510 J			
Atrazine	1912-24-9	--	µg/kg	960 U	1000 U			
Benzaldehyde	100-52-7	--	µg/kg	960 U	1000 U			
Benzo(A)Anthracene	56-55-3	5600	µg/kg	590 J	2500			
Benzo(A)Pyrene	50-32-8	**1000**	µg/kg	750 J	**2400 J**			

Table 4-5
Soil Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	BS-11	BS-11	BS-12	BS-13	BS-14
			Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221	828109-BS-12-14-15-060221	828109-BS-13-10-12-060121	828109-BS-14-10-11-060121
			Start Depth	13	13	14	10	10
			End Depth	14	14	15	12	11
			Depth Unit	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N
			Parent Sample #		828109-BS-11-13-14-060221			
			Sample Date	6/2/2021	6/2/2021	6/2/2021	6/1/2021	6/1/2021
Analyte	**CAS #**	**Soil Screening Value[1]**	**Units**					
Benzo(B)Fluoranthene	205-99-2	5600	µg/kg	1100	3700			
Benzo(G,H,I)Perylene	191-24-2	500000	µg/kg	630 J	1400			
Benzo(K)Fluoranthene	207-08-9	56000	µg/kg	350 J	1400			
Benzyl Butyl Phthalate	85-68-7	--	µg/kg	960 U	1000 U			
Biphenyl (Diphenyl)	92-52-4	--	µg/kg	960 U	1000 U			
Bis(2-Chloroethoxy) Methane	111-91-1	--	µg/kg	960 U	1000 U			
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	111-44-4	--	µg/kg	960 U	1000 U			
Bis(2-Chloroisopropyl) Ether	108-60-1	--	µg/kg	960 U	1000 U			
Bis(2-Ethylhexyl) Phthalate	117-81-7	--	µg/kg	960 U	1000 U			
Caprolactam	105-60-2	--	µg/kg	960 U	1000 U			
Carbazole	86-74-8	--	µg/kg	960 U	270 J			
SVOCs (continued)								
Chrysene	218-01-9	56000	µg/kg	740 J	2700 J			
Dibenz(A,H)Anthracene	53-70-3	560	µg/kg	960 U	510 J			
Dibenzofuran	132-64-9	350000	µg/kg	960 U	1000 U			
Diethyl Phthalate	84-66-2	--	µg/kg	960 U	1000 U			
Dimethyl Phthalate	131-11-3	--	µg/kg	960 U	1000 U			
Di-N-Butyl Phthalate	84-74-2	--	µg/kg	960 U	1000 U			
Di-N-Octylphthalate	117-84-0	--	µg/kg	960 U	1000 U			
Fluoranthene	206-44-0	500000	µg/kg	1400 J	5900 J			
Fluorene	86-73-7	500000	µg/kg	150 J	260 J			
Hexachlorobenzene	118-74-1	6000	µg/kg	960 U	1000 U			
Hexachlorobutadiene	87-68-3	'--	µg/kg	960 U	1000 U			
Hexachlorocyclopentadiene	77-47-4	'--	µg/kg	960 U	1000 U			
Hexachloroethane	67-72-1	'--	µg/kg	960 U	1000 U			
Indeno(1,2,3-C,D)Pyrene	193-39-5	5600	µg/kg	570 J	1400			
Isophorone	78-59-1	'--	µg/kg	960 U	1000 U			
Naphthalene	91-20-3	500000	µg/kg	960 U	1000 U			
Nitrobenzene	98-95-3	'--	µg/kg	960 U	1000 U			
N-Nitrosodi-N-Propylamine	621-64-7	'--	µg/kg	960 U	1000 U			
N-Nitrosodiphenylamine	86-30-6	'--	µg/kg	960 U	1000 U			
Pentachlorophenol	87-86-5	6700	µg/kg	1900 U	2000 U			

Table 4-5
Soil Analytical Results
Speedy's Cleaners
NYSDEC Site # 828109
Pittsford, NY

			Location	BS-11	BS-11	BS-12	BS-13	BS-14
			Sample #	828109-BS-11-13-14-060221	828109-BS-911-13-14-060221	828109-BS-12-14-15-060221	828109-BS-13-10-12-060121	828109-BS-14-10-11-060121
			Start Depth	13	13	14	10	10
			End Depth	14	14	15	12	11
			Depth Unit	ft	ft	ft	ft	ft
			Sample Type	N	FD	N	N	N
			Parent Sample #		828109-BS-11-13-14-060221			
			Sample Date	6/2/2021	6/2/2021	6/2/2021	6/1/2021	6/1/2021
Analyte	**CAS #**	**Soil Screening Value[1]**	**Units**					
Phenanthrene	85-01-8	500000	µg/kg	720 JT	2800			
Phenol	108-95-2	500000	µg/kg	960 U	1000 U			
Pyrene	129-00-0	500000	µg/kg	1100 T	4200			

Notes:

1 - NYSDEC. December 2006. 6 New York Codes, Rules and Regulations (NYCRR) Part 375 (Environmental Remediation Programs) Subpart 375-6.

> NYSDEC TOGS 1.1.1

Bold Detection

Acronyms:

- number
ALK - alkalinity
CAS - chemical abstract service
FD - field duplicate
ft - feet
ID - identification
mg/L - milligram per liter
ng/L - nanogram per liter
N - normal sample
TOC - total organic carbon
µg/L - microgram per liter
-- - no screening value

Qualifiers:

J - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
JH - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The result is biased high.
JL - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The result is biased low.
JT - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. However, the matrix spike
JT - Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. However, the matrix spike
R - The data are unusable
T - Matrix spike and/or matrix spike duplicate exceeds control limits
U - Analyte was not present in sample above detection limit
UJ - Analyte was not present in sample above detection limit; however, the reported detection limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
UT - Analyte was not present in sample above detection limit; however, the matrix spike and/or matrix spike duplicate exceeds control limits

Soil samples were collected at four locations to the north and northeast of the Speedy's Cleaners building. These samples had little to no VOC contamination and concentrations were not above the NYSDEC Commercial Use criteria (NYSDEC 2006). PCE (11 JL µg/kg) and methylene chloride (4.2 J µg/kg) were detected at BS-11 (13 to 14 feet bgs), located within the extent of historical contamination. VOCs were not detected in samples collected between 10 and 15 feet bgs at BS-12, BS-13, and BS-14.

PFAS and 1,4-dioxane were not detected in any soil samples. Benzo(a)pyrene was the only exceedance present in samples (2,400 J µg/kg in BS-11). **Table 4-6** presents the frequency of detections for VOCs, PFAS, and 1,4-dioxane in soil.

Table 4-6 Frequency of Detections for VOCs, PFAS, and 1,4-dioxane in Soil

Analyte Group	Site-Related Contaminants	2021 Soil Investigation Results				
		NYSDEC Commercial Use Soil Cleanup Objectives (µg/kg)	Maximum Concentration Detected (µg/kg)	Location of Maximum Concentration Detected	Number of Detects/ Total Samples	Number of Detects above NYSDEC Commercial Use Soil Cleanup Objectives
VOCs	cis-1,2-DCE	500,000 µg/kg	ND	None	0/5	0/5
	PCE	150,000 µg/kg	11 JL µg/kg	BS-11	1/5	0/5
	TCE	200,000 µg/kg	ND	None	0/5	0/5
	Vinyl Chloride	13,000 µg/kg	ND	None	0/5	0/5
PFAS	PFOA	None	ND	None	0/2	0/2
	PFOS	None	ND	None	0/2	0/2
SVOC	1,4-Dioxane	130,000 µg/kg	ND	None	0/5	0/5

4.2.3 Soil Contamination Extent and Impacts

Contaminants detected in soil did not historically exceed the NYSDEC Commercial Use criteria with one exception (PCE from 3 to 4 feet bgs at BH-1 in 1999), and current levels of Site-related compounds are comparatively low. The only Site-related compound detected in soil was PCE, occurring at a concentration three orders of magnitude below the NYSDEC Commercial Use criteria, despite elevated concentrations of VOCs remaining in groundwater at the co-located well (MW-5). While soils within the saturated zone do not appear to contain high levels of contamination, it is not possible to determine the extent of contamination in shallow soils within the vadose zone based on current data.

In 1998, high detections of PCE (10,500 µg/kg) were observed from 2 to 4 feet bgs along the northeastern wall of the Speedy's Cleaners building. This sample was collected from the ground adjacent to the building's vent pipes (since removed) (see Figure A-1 in **Appendix A**; NYSDEC 2003). No historic soil data collected at a later date are available for this area, and samples were not collected in this vicinity during the 2021 RI investigation. Therefore, the extent of contamination in this potential source area of contamination is unknown.

Similarly, because soil samples were not collected near the north corner of the building in 2021, it is not possible to determine the levels of Site-related compounds present in this potential source area of contamination. The maximum concentrations of PCE in soil samples collected 1999 and 2002 were observed in samples collected from 3 to 4 feet bgs adjacent to the north corner of the building. These samples (BH-1 in 1999 and BS-9 in 2002) were within a few feet of one another (see Figures A-1 and A-2 in **Appendix A**). Soil samples have not been collected in this area since the 1999/2002 investigations. Therefore, the extent of contamination in this potential source area of contamination is unknown.

Additionally, there are not enough data to fully characterize the current vertical extent of contamination, as soil samples were collected from the saturated zone, but not from the vadose zone during 2021 field activities. One recent sample, BS-11, is within the area of historically high contamination to the north of the north corner of the building and is within 5 feet of 2002 soil boring BS-4. BS-11 was collected from 13 to 14 feet bgs, which is below the water table in the saturated zone, while BS-4 was collected from 10 to 10.5 feet bgs, which was above the water table in the vadose zone at the time of sampling. BS-11 contained a PCE concentration of 11 JL µg/kg in 2021, while BS-4 had a PCE concentration of 22,000 µg/kg in 2002, a concentration three orders of magnitude higher than the 2021 concentration. While BS-11 (2021) and BS-4 (2002) are within the same lateral vicinity, VOC concentrations are not comparable due to the differences in sample depths and position in relation to the water table.

As previously stated, high levels of PCE were observed between 2 and 4 feet bgs in 1998 and between 3 and 4 feet bgs in 1999 and 2002. Additionally, while high VOC concentrations were observed in 2002 between 3 and 4 feet bgs at BS-9, significantly lower concentrations occurred from 6 to 6.5 bgs, indicating contamination may decrease with depth across the vadose zone. Considering the high levels of historic contamination within the vadose zone, changes in contaminant levels within the vadose zone itself, and lack of current data for shallow soil, it is not possible to determine how VOC concentrations may vary across the water table nor the extent of the remaining contamination within the vadose zone.

While it is not possible to characterize the extent of soil contamination in the vadose zone with certainty, concentrations of Site-related contaminants have decreased significantly between 2002 and 2021, likely because of degradation by biotic and/or abiotic factors. The decreasing VOCs concentrations in groundwater indicate that a similar trend in decreasing concentrations may be occurring within shallow soils. VOC concentrations within soils have likely decreased between 2002 and 2021; however, additional data are needed to quantify concentration reductions in soil.

This page intentionally left blank.

Section 5
Contaminant Fate and Transport

Based on the analysis of historical data and data collected during this RI, PCE was identified as having the greatest spatial distribution and highest detected concentrations of any other contaminants. PCE is therefore considered indicative of overall Site-related contamination. Degradation byproducts of PCE (TCE, *cis*-1,2-DCE, and vinyl chloride) are also considered. Additionally, PFAS has been identified as Site-related contaminants based on RI data. An evaluation of the fate and transport of these contaminants at the Site is presented in this section.

5.1 Environmental Fate and Transport Characteristics of Site-Related VOCs

PCE, TCE, *cis*-1,2-DCE, and vinyl chloride were detected above applicable standards in groundwater at the Speedy's Cleaners Site. While PCE was detected in soil, the concentration was very low, more than three orders of magnitude below its applicable standard. However, soil samples were collected within the saturated zone only. Historical data indicate that a high level of contamination may be present within vadose zone soils. The extent of contamination within shallow soils is currently unknown.

The distribution of contaminant impact is influenced by factors such as the physical and chemical properties of the constituents, the nature and location of impacts as described in Section 4, and Site characteristics, such as geology, hydrology, and topography as described in Section 3. The principal chemical and physical properties that impact the fate and transport of contaminants in the environment include solubility, sorption, volatilization, advection, and dispersion, as well as degradation processes such as biodegradation. The combined processes described herein will contribute to the natural depletion of source material and related impacts at the Site over time.

5.1.1 Dissolution

Dissolution is the partitioning of a chemical in the liquid phase. The solubility of a compound in water is determined based on the maximum amount of a chemical that will dissolve in pure water at a specified temperature. Water solubility can generally be used to predict pollutant mobility and distribution in an environment. Contaminants with moderate to high solubility can readily leach from soils into groundwater and become mobile. Additionally, compounds that are highly water soluble will be less likely to volatilize into a gas when in the presence of water. A compound with low water solubility generally has a solubility of less than 100 milligrams per liter (mg/L), and a compound with high water solubility generally has a solubility of greater than 1,000 mg/L.

Because of their low to moderate solubilities, the rate of dissolution of PCE and its degradation products from soil is likely to be low. Once in groundwater, their solubilities are sufficiently high to cause significant aqueous-phase contamination, but also sufficiently low to result in persistent sources. No non-aqueous phase liquids (NAPLs) have been observed in groundwater at the Site, and concentrations are not indicative of the presence of NAPL.

5.1.2 Sorption

The tendency for contaminants to adsorb to environmental media is called sorption. The degree of sorption that will occur is a function of the chemical properties of the contaminant, as well as the properties of the media through which the contaminant is moving. The presence of organic matter in the aquifer material will facilitate the adsorption of compounds such as hydrocarbons.

Many contaminants tend to adsorb to organic carbon, so the tendency of a particular contaminant to adsorb can be indicated by the log of the organic carbon partition coefficient, K_{oc}, of that chemical. Octanol Carbon Partition Coefficient (K_{oc}) is the ratio of the adsorbed chemical per unit weight of organic carbon to the aqueous solute concentration. A low log K_{oc} (e.g., <1 or 2) suggests that there is potential for the chemical to leach into groundwater or surface water, while a high log K_{oc} (e.g., >4) indicates that the chemical will strongly adsorb to the available organic carbon. Generally, the stronger a chemical is adsorbed, the lower the water solubility. The degree to which the movement of a contaminant is slowed is expressed as a retardation factor which can be calculated if the K_{oc} and fraction of organic carbon in the aquifer is known. Log K_{oc} ranges and the ability to adsorb to soil are presented in **Table 5-1**.

Table 5-1 Soil Adsorption Values

Log K_{oc}	Sorption to Soil
<1	Very weakly sorbed
1 to 2	Weakly sorbed
2 to 3	Moderately sorbed
3 to 4	Moderately to strongly sorbed
4 to 5	Strongly sorbed
>5	Very strongly sorbed

Source: Agency for Toxic Substances & Disease Registry, 1999.

Log K_{oc} values for Site-related contaminants identified at the Site range from 1.28 (vinyl chloride) to 2.67 (PCE) indicating weakly to moderately sorbed adsorption values.

Finer-grained soils, such as silts typically tend to naturally have elevated levels of organic matter as compared to coarse textured sands and gravels. Observations during the RI subsurface investigation indicated that the majority of on-site subsurface soils consisted of sand, gravel, and clay, with little silt, while the off-site subsurface soils to the northeast of the Site had higher quantities of silt, with sand and gravel. The presence of on-site soils with naturally lower organic content and the presence of weakly to moderately sorbed contaminants at the Site indicate that sorption is not a significant contributing factor to the reduction of the volume and mobility of VOCs in the subsurface on-site. Despite potentially higher levels of organic content within off-site soils, the weak to moderate ability of the Site-related contaminants to sorb to soils are not considered to be a significant contributing factor to the reduction and mobility of VOCs in the subsurface off-site.

5.1.3 Volatilization

Vapor pressure is a relative measure of the volatility of a compound in its pure state and is an important factor in the rate of volatilization from contaminated soils and groundwater to the atmosphere. Volatilization rates are also affected by Site-specific conditions such as temperature,

wind speed, and soil conditions. Chemicals with a relatively low vapor pressure and a high affinity for soil or water are less likely to vaporize and become airborne than those with a high vapor pressure and low affinity for water.

A related parameter, the Henry's Law constant, is sometimes referred to as the air-water partition coefficient. It is the ratio of the partial pressure of a compound in air to the concentration of the compound in water at a given temperature under equilibrium. When vapor pressure is high relative to water solubility, the Henry's Law constant is high, and the chemical volatilizes to air. If the water solubility is high relative to the vapor pressure, the Henry's Law constant will be low, and the chemical will tend to remain in solution. Some ranges of Henry's Law constants and associated volatilities are listed below.

Table 5-2 Henry's Law Constant Values

Henry's Law Constant (atm-m^3/mol)	Relative Volatility
<1 x 10-7	Non-volatile
1 x 10-7 to 1 x 10-5	Low volatility
1 x 10-5 to 1 x 10-3	Moderate volatility
>1 x 10-3	High volatility

Source: Montgomery 2007

Henry's Law constant values for Site-related contaminants identified range from 4.08 x 10^{-3} atmospheres per cubic meter per mole (atm-m^3/mol; *cis*-1,2-DCE) to 2.78 x 10^{-2} atm-m^3/mol (vinyl chloride). All compounds present in the historic VOC release are characterized by high volatility. Volatilization and subsequent aerobic degradation of VOCs is a significant process reducing the volume and mobility of contamination in soils and groundwater.

Volatilization is expected to be occurring at the Site based on the historic need for an ASD within the Speedy's Cleaners building, evidenced by high levels of VOCs in indoor air samples and the presence of highly volatile compounds in the groundwater. Detected PID readings collected above the water table interface indicate some presence of volatilization of contaminants, as well.

5.1.4 Advection, Diffusion, and Dispersion

Contaminants that have reached the water table and become dissolved move through an aquifer via advection, diffusion, and dispersion. Advection is the movement of the contaminants with the water as it moves down-gradient, forming a contaminant plume. Diffusion is the movement of contaminants in response to concentration gradients. The primary mechanism for dispersion is the mechanical mixing of the contaminant as the water flow velocity changes due to variations in pore size and shape. The effect of dispersion is a dilution in the contaminant concentration away from the source. Thus, because contaminant mass is spread beyond the region it would occupy due to advection alone, the size of a plume can increase through the process of dispersion.

Of the three processes discussed in this section, advection is likely the main driving force of VOC contaminant transport. As stated, advection is the movement of contaminants with movement of groundwater. Historical and current data indicate contamination has been transported to the northeast along with the flow of groundwater, while minimal lateral movement of the VOC contamination indicates limited dispersion. Diffusion of the contaminants is likely a small process

in comparison to others, as there is no evidence of a significant concentrations of contaminant upgradient of the identified source area.

5.1.5 Biodegradation

Biodegradation is the process by which organic substances are broken down by indigenous or introduced living organisms. The four required elements for biodegradation to occur include nutrients, moisture, an electron donor, and a terminal electron acceptor. Nutrients and moisture are generally readily available in the subsurface. Therefore, the presence of electron donors or terminal electron acceptors is generally the limiting factor in biodegradation.

VOCs, such as those present at the Site, are amenable to aerobic degradation (oxygen as the electron donor) and anaerobic degradation. The Site-wide decrease in PCE concentrations between 2002 and 2023 and the presence of degradation products indicate a moderate level of biodegradation may have occurred at the Site. However, due to a lack of temporally spaced data, it is not possible to determine the rate at which this degradation has occurred over time. At present, there is minimal evidence for sustained biotic or abiotic degradation of PCE in the subsurface at the Site.

5.2 Environmental Fate and Transport Characteristics of PFAS

A current, reliable source of information on fate and transport of PFAS is the Interstate Technology Regulatory Council (ITRC). Excerpts from their online guidance document on PFAS (ITRC 2021) are incorporated below. Factors that influence PFAS fate and transport can be broadly divided into two categories:

- PFAS characteristics: Critical factors include the chain length, the ionic state of the compound (e.g., the charges carried by the molecule at a typical environmental pH), the type of functional groups, and the extent of fluorination (e.g., perfluorinated versus polyfluorinated compounds). These properties strongly influence the type and extent of PFAS partitioning and transformation that can be expected to occur.

- Site characteristics: Site characteristics generally define the nature of the source but also have an effect on PFAS-media interactions. Potentially relevant characteristics include soil type (including properties such as permeability, surface charge, organic carbon content, exchange capacity, minerology, water content), depth to groundwater, oxidation-reduction conditions, precipitation/infiltration rates, surface water and groundwater flow rates, prevailing atmospheric conditions, and the presence of co-contaminants.

Although many PFAS compounds may share similar characteristics, such as resistance to transformation, those same PFAS may have widely varying physical-chemical properties, such as those associated with partitioning. As a result, PFAS fate and transport in the environment can be quite different from other contaminants. Of specific interest to the fate and transport of PFAS is partitioning.

Both hydrophobic partition to organic carbon and electrostatic interactions between charged surfaces and PFAS are critical components as is the tendency of PFAS to aggregate at air-water interfaces. These processes greatly affect migration in the environment by promoting retention

within sediments and unsaturated soils, as well as retardation within groundwater. Varying degrees of retention on solids contribute to differential transport where certain PFAS (for example, short-chain, anionic) are more rapidly transported than others.

A number of individual PFAS, such as perfluoroalkyl acids and perfluoroalkyl ether carboxylic acids, are highly persistent due to the strength of the C-F bond. However, a number of polyfluorinated substances can be partially degraded via several different biological and abiotic mechanisms. Transformation of these precursors to perfluoroalkyl acids (PFAAs) has been shown to occur in a variety of environmental media and can result in temporal and spatial trends in PFAS occurrence. The two principal site-related PFAS compounds are PFOA and PFOS. PFOS is known to be more transmissive in groundwater.

5.3 Environmental Fate of Site-Related Contaminants

The various chemical and physical processes, described in Section 5.1 and 5.2, impact the environmental fate and transport of Site-related contaminants in Site media and are discussed in this section.

PCE, TCE, *cis*-1,2-DCE, and vinyl chloride have been historically identified in groundwater and soil, though these VOCs were present at low to non-detectable concentrations in soils during the RI investigation. PCE and its degradation products were detected above applicable standards in groundwater at the Speedy's Cleaners Site and hydraulically downgradient of the Site.

These constituents are generally mobile in the environment, as well as volatile. Though they weakly to moderately adsorb to soils, when originally released to soil in the liquid state, compounds would be expected to immediately begin to vaporize due to their high volatilities. The fraction moving through the soil would either sorb to the soil or infiltrate through the vadose zone at a rate depending on the hydraulic conductivity of the soils. VOCs would partition between the liquid phase (soil moisture) and the vapor phase (soil gas), before leaching into the groundwater. Since VOCs are generally only moderately soluble in water, dissolved contamination can remain, which has been observed in Site monitoring wells; DNAPL has not been observed in Site wells. In the dissolved state the degree of sorption to soil is dependent on the amount of organic carbon present in the soil. The dissolved phase of the VOCs is expected to flow downgradient with low to moderate retardation, as evidenced by the detection of Site-related contaminants in the groundwater hydraulically downgradient of the Site.

Historically, PCE and its degradation products were detected in on-site monitoring wells at much higher levels than those observed during 2021 and 2023 RI activities. Therefore, there is evidence that VOCs at the Site have been reduced in groundwater over time. Additionally, the RI data indicate that the groundwater plume does not have a large lateral spread and is understood to be relatively long and narrow. The vertical extent of the plume has not been fully delineated to the northeast given the spatial distribution of historical and current data.

Due the presence of the densely packed clays of the glacial till unit, significant vertical migration of the on-site contamination is not expected. While high levels of VOCs have also been historically observed in soils, it is not possible to make determinations about the current state of VOC

contamination within soils due to a lack of sufficient data in areas of historically high contamination both laterally and vertically.

PFAS are considered emerging contaminants as they have only recently been recognized as site-related contaminants in groundwater. Analytical methods and understanding of fate and transport is evolving. The two most predominant PFAS compounds detected at the Site are PFOS and PFOA, however there are a multitude of other PFAS compounds that were detected during the RI which may exhibit a variety of fate and transport characteristics. PFAS concentrations in groundwater were highest at on-site monitoring well MW-3 (i.e., located directly behind the building) and decreased by one order of magnitude at the hydraulically downgradient off-site screening location GWS-5. The concentration of PFAS, in general, is expected to attenuate in the absence of a continuing source from dry cleaning operations. Some changes in the composition of the PFAS plume and ratio of PFAS compounds may occur. Similar to VOCs, the RI data indicate that the groundwater plume does not have a large lateral spread and is understood to be relatively long and narrow. Additionally, the vertical extent of the plume has not been fully delineated to the northeast given the spatial distribution of historical and current data. Monitoring of groundwater can be used to identify potential future changes in the PFAS plume.

5.4 Natural Attenuation of VOCs in Groundwater

An assessment of natural attenuation of Site contaminants was performed. The assessment consisted of evaluating both direct and indirect lines of evidence for on-going attenuation of PCE in the extent of contamination. The assessment included:

- Identifying changes in the historically detected contaminant concentrations
- Determining if groundwater geochemistry is suitable for fostering microbial reductive dehalogenation of PCE

5.4.1 Background on Natural Attenuation Processes

Natural attenuation refers to all naturally occurring processes discussed above (biotic and abiotic degradation, and other non-destructive processes such as dispersion, dilution, sorption, volatilization, etc.) that affect the fate and transport of contaminants in soil and groundwater, and achieve a reduction in the total mass, toxicity, mobility, volume, or concentration of a contaminant in soil and groundwater. With convincing lines of evidence, these processes can be effective in containing and remediating contamination in a time frame comparable to other alternatives.

Chlorinated ethene compounds, such as PCE and TCE, can be progressively dechlorinated via microbial reductive dechlorination. If sufficient electron donors and appropriate microorganisms are present, complete reductive dechlorination of the highly chlorinated compounds may occur. During this process, the chlorine atoms are replaced by hydrogen, resulting in compounds with reduced carbon and less chlorine. Therefore, the chlorinated solvent is acting as an electron acceptor and needs other carbon substrates to act as electron donors. As such, PCE degrades to TCE which subsequently degrades to DCE, with the cis isomer (*cis*-1,2-DCE) predominant over the trans isomer, then vinyl chloride and, ultimately, ethene and carbon dioxide (Chapelle 1993; Wiedemeier et al. 1998).

Naturally occurring ferrous iron minerals can facilitate the abiotic dechlorination of chlorinated solvents (Lee and Batchelor, 2002a, 2002b, 2004; He et al., 2010). These studies have shown that ferrous iron-induced dechlorination of PCE and TCE typically occurs via a beta-elimination pathway, with the formation of acetylene, ethene, and ethane. Abiotic reaction processes in low-permeability matrices, such as the glacial till at the Site, may be important, as even relatively slow contaminant degradation reactions within the matrix can have a substantial mitigating effect on the impacts of back-diffusion or volatilization.

5.4.2 Natural Attenuation Evaluation

Natural attenuation processes that reduce VOC contaminant concentrations in groundwater include destructive (e.g., biodegradation, abiotic degradation, and chemical reactions with other subsurface constituents) and nondestructive mechanisms (e.g., volatilization, dissolution, dilution/dispersion, and adsorption/desorption).

During the RI, MNA indicator parameters were collected and analyzed from monitoring wells to evaluate whether subsurface conditions are conducive to *in situ* natural degradation of chlorinated VOCs. MNA parameters included the following:

- Field parameters: pH, specific conductivity, DO, temperature, and ORP (Eh)
- Laboratory analysis: VOCs, nitrate/nitrite, sulfate, sulfide, alkalinity, chloride, TOC, ferrous iron

Analytical results are included in **Table 4-1.**

5.4.2.1 PCE and Degradation Byproducts

The existence of degradation byproducts of the primary contaminant at the Site (i.e., PCE) would indicate that biodegradation is occurring or had occurred at some point in the past. Groundwater concentrations of PCE and its degradation products have had an overall decrease in on-site wells as evidenced by a comparison of historical results from 2002 (**Appendix A**) to the analytical groundwater results from 2021 and 2023 (**Figure 4-1**). Degradation byproducts up to and including vinyl chloride are present in two on-site monitoring wells, two off-site monitoring wells, and one off-site groundwater screening location.

5.4.2.2 Sources of Organic Carbon

EPA guidance for natural attenuation suggests that organic carbon (natural or anthropogenic) concentrations exceeding 20 mg/L are sufficient to drive continuing biodegradation. Only one monitoring well (MW-5) had a concentration of TOC exceeding this value, while all other wells had organic carbon concentrations an order of magnitude below this guideline. MW-5 has the most exceedances of chlorinated hydrocarbons of monitoring well locations sampled; in addition, MW-5 had the highest detection of PCE at the Site. The elevated level of organic carbon in the vicinity of MW-5 suggests that biodegradation has the ability to be sustained. However, the lack of organic carbon in the remainder of the monitoring wells likely inhibits sustained biodegradation in groundwater.

5.4.2.3 Presence of Reducing Conditions Suitable for Biodegradation

Dechlorinating bacteria prefer reducing conditions in groundwater, and will preferentially utilize oxygen and oxidized nitrogen, iron, manganese, and sulfur as electron acceptors prior to using PCE as an electron acceptor. Thus, the presence of these naturally occurring electron acceptors will inhibit reductive dehalogenation. There is little if any evidence that suitable reducing conditions are present in the extent of contamination. Dissolved oxygen levels are consistently aerobic. Reduced species such as nitrite and sulfide are generally not present or were detected at very low concentrations (MW-5 had a nitrite concentration of 0.022 J mg/L in 2021).

5.4.2.4 Water Quality Parameters

The pH and temperature of groundwater samples were within optimal ranges for the growth of bacteria capable of dechlorinating PCE. However, the oxidative-reductive potential in all groundwater samples were not within the optimal range for reductive dechlorination. Paired with the lack of organic carbon in some portions of the Site, reducing conditions are not likely to be sustained.

5.4.2.5 Advection, Dilution, and Dispersion

Advection is likely the main driving force of VOC contaminant transport at the Site. As stated, advection is the movement of contaminants with movement of groundwater, and Site data indicate a long, narrow contaminant plume extending off-site to the northeast in the direction of groundwater flow. Dilution and dispersion will likely have a longer impact on concentrations in the glacial till because of low-permeability geology (as compared to areas of higher-permeability geology), and the significant impervious cover (asphalt and buildings) across the Site results in little stormwater percolation into the till. However, due to the presence of some interbedded layers of sand and gravel, dilution and dispersion has likely had some impact on chlorinated solvent concentrations at the Site overtime.

5.4.2.6 Summary of Natural Attenuation

There is minimal evidence for sustained biotic or abiotic degradation of PCE in the subsurface beyond the source area in the vicinity of MW-5 and off-site. Sufficient organic carbon was only identified at MW-5. While MW-5 does have elevated detections of PCE and its degradations products above applicable groundwater criteria, the lack of organic carbon in the surrounding monitoring wells does not lend to sustained dechlorinating bacteria in the long term. An extensive historical dataset of concentrations on-site and the downgradient extent of contamination is not available for this Site. It is expected that dilution and dispersion, are still a notable contributors to historical reduction of contaminant concentrations in the on-site monitoring wells. However, due to this limited dataset, quantification of these mechanisms is not possible.

5.5 Natural Attenuation of PFAS in Groundwater

An ongoing release of PFAS due to historical dry cleaning operations is not present, however PFAS still remains in the soil and groundwater. As previously discussed for PFAS, there are processes that will (over time) reduce the concentration of these compounds in groundwater. The time history of multiple rounds of groundwater sampling has documented reduction of VOC concentrations at most of the sampled locations, which indicates that mass discharge from the

source zone is less than the attenuation capacity in the plume. Because perfluorinated compounds like PFOS and PFOA are highly resistant to degradation, much of any reduction in PFAS concentrations in groundwater would be due to adsorption, dilution and dispersion. PFAS concentrations in the plume may be sustained by continued discharge from source zones, back-diffusion from low-permeability zones, desorption from soils, and potentially the continued transformation of precursors in the subsurface.

5.6 Conceptual Site Model

The following discussion presents the CSM for soil and groundwater at the Site.

5.6.1 Physical Setting

The Speedy's Cleaners portion of the Site is covered by asphalt pavement, concrete-covered sidewalks, and concrete building slabs. The RG&E portion of the Site is primarily covered with large gravel. The Oak Hill Country Club, to the northeast of the Site, is covered by sod. A relatively thin vadose zone (between approximately 6 and 12 feet thick) exists at the Site. Soil consists mainly of fill material, underlain by lacustrine deposits of sand, gravel, and clay. Glacial till begins approximately 14 feet bgs on-site and between 6.5 and 13.5 feet bgs off-site. DPT borings encountered refusal between 14 and 19 feet bgs on-site and between 8 and 19 feet bgs off-site during subsurface investigations, due to the dense, tightly compacted nature of the till. Because of its low porosity, the substrate was typically moist to dry at refusal depths. Bedrock was not encountered. While Site-specific testing has not been performed, hydraulic conductivity for glacial till is typically very low (less than 1 ft/day) and slightly higher for silty lacustrine deposits (up to 6 ft/day; Domenico & Schwartz 1990). Groundwater flows to the northeast, flowing from the Site to the Oak Hill Country Club property (**Figure 3-2**).

5.6.2 Contaminant Sources, Migration Pathways, and Fate

5.6.2.1 Contaminant Sources

The Site sustained releases of PCE to the ground over time due to poor operating practices by Speedy's Cleaners (NYSDEC DER 2012). According to the *Florida Statewide PFAS Pilot Study at Dry Cleaning Sites* report prepared by HSW in 2021, potential release rates of PFAS from dry cleaning operations would depend on the type and age of laundered clothes and the operational practices of the facility. PFAS releases to the environment would be expected to closely mimic that of chlorinated solvents in dry cleaning practices (i.e., waste material spills, mop water discharges, separator water discharges, etc.). Upon release, PFAS may remain in the unsaturated zone where high organic carbon content in the matrix exists and subsequently migrate into the saturated zone from precipitation events. The PFAS plume is generally co-present with chlorinated solvents in the vicinity of the facility, providing supporting evidence that elevated PFOA/PFOS are associated with the dry cleaning sites (HSW 2021).

Potential source areas of contamination on the RG&E property include the area along the northeastern wall adjacent to the former vent pipes (see Figure A-1 in **Appendix A**) and the area by the north corner of the building, which may have been used for cleaning dry cleaning filters (NYSDEC 2003). Once dry-cleaning operations ceased on-site in 1993, releases to the ground in the north corner likely ceased; vent pipes were removed between 1999 and 2003. In 2006, an ASD was installed to reduce soil vapor intrusion within the building (Passero 2012) and has been

operational ever since. This system acts as a mitigation measure for indoor air but is not a method of remedial action for contaminated soils and groundwater.

A UST seeping free product near the western corner of the building was a former source of Site contamination (**Figure 1-2**). However, this UST has since been removed and the soils surrounding the area remediated; therefore, this source is unrelated to the VOC contamination to the north of the building addressed by this report.

5.6.2.2 Contaminant Migration Pathways and Fate

The fate of a constituent in the environment is a function of its chemical properties and the physical nature of the Site. The following bullets are key points regarding contaminant fate and migration at the Site:

- Contaminant migration pathways include release mechanisms at the Speedy's Cleaners Site, impacts to and leaching from shallow soils, and transport in groundwater. Prior soil and groundwater sampling identified such pathways.
- A cross-sectional profile (i.e., A-A' running from southwest to northeast) was developed to support the CSM and provide a general understanding of VOC and PFAS contamination extent and transport in soil and groundwater. This cross-sectional profile is presented on **Figure 5-1** and shows the approximate extents of VOC and PFAS contamination. As shown in the figure, the vertical extent of the VOC and PFAS contamination extends from the ground surface to the top of the glacial till. Additionally, southwest-northeast horizontal migration of VOCs and PFAS extend from the site to approximately 200 ft downgradient along the axis of groundwater flow. Because of the limited number of downgradient wells, the horizontal extent and the lowermost vertical extent of the VOCs and PFAS contamination beyond 200 ft are not clearly defined.

Southwest A — A' Northeast

Parking Area

Site Boundary

Building
(Not to Scale)

Tree-Lined Area

Oak Hill Country Club

MW-2 | BH-01 & BS-09 | MW-3 BS-07 | MW-5 BS-11 | MW-10 | SW-1 | GWS-5

Active Sub-slab Depressurization System

Estimated VOC Contamination

Estimated VOC and PFAS Contamination

Groundwater Flow Direction

PCE - 748,000 µg/kg (5/1999)
TCE - 5,409 µg/kg (5/1999)
PCE - 8,500 µg/kg (9/2002)

433.17
428.84
428.92
428.30

PCE - ND (6/2021)
TCE - ND (6/2021)
cis-1,2-DCE - ND (6/2021)
VC - ND (6/2021)
PFOS - 9 J ng/L (6/2021)
PFOA - 5 ng/L (6/2021)

PCE - ND (9/2002)
TCE - ND (9/2002)
cis-1,2-DCE - 22 µg/kg (9/2002)
VC - 3 J µg/kg (9/2002)
PCE - 1.5 J µg/L (6/2021)
PCE - ND (4/2023)
TCE - ND (6/2021)
TCE - ND 4/2023)
cis-1,2-DCE - [illegible] µg/L (6/2021)
cis-1,2-DCE - 68 µg/L (4/2023)
VC - 86 µg/L (6/2021)
VC - 39 µg/L (4/2023)
PFOS - 110 ng/L (4/2023)
PFOA - 41 ng/L (4/2023)

PCE - 22,000 µg/kg (9/2002)
PCE - 11 JL µg/kg (6/2021)
TCE - ND (6/2021)
cis-1,2-DCE - ND (6/2021)
VC - ND (6/2021)
PFOS - ND (6/2021)
PFOA - ND (6/2021)
PCE - 1900 µg/L (6/2021)
PCE - 370 µg/L (4/2023)
TCE - 85 µg/L (6/2021)
TCE - 12 µg/L 4/2023)
cis-1,2-DCE - 680 µg/L (6/2021)
cis-1,2-DCE - 46 µg/L (4/2023)
VC - 48 (6/2021)
VC - ND (4/2023)
PFOS - 17 J ng/L (4/2023)
PFOA - 19 ng/L (4/2023)

PCE - 110 µg/L (4/2023)
TCE - 12 µg/L (4/2023)
cis-1,2-DCE - 56 µg/L (4/2023)
VC - ND (4/2023)
PFOS - 17 ng/L (4/2023)
PFOA - 31 ng/L (4/2023)

(Inferred from boring log)

PCE - 17 µg/L (3/2023)
TCE - 1.7 µg/L (3/2023)
cis-1,2-DCE - 11 µg/L (3/2023)
VC - ND (3/2023)
PFOS - 2.1 J ng/L (4/2023)
PFOA - 12 ng/L (4/2023)

Elevation (feet above mean sea level)

455 | 450 | 445 | 440 | 435 | 430 | 425 | 420

0 | 50 | 100 | 150 | 200 | 250 | 300 | 350

Distance Along Baseline (feet)

Cross Section Location

Site Map Scale:
1 inch equals 130 feet

GWS-5 | A' | SW-1 | MW-10 | MW-5/BS-11 | Site Boundary | BH-01 & BS-09 | MW-3/BS-07 | MW-2 | A | Approximate Building Outline | N

Lithologic Units

- Sand and Gravel
- Silt and Sand
- Clay
- Glacial Till

Well Construction Materials

- PVC Casing
- Well Screen

Water Level Elevation
Date: April 2023
Dashed Where Inferred

- Estimated Extent of VOC Contamination
- Estimated Extent of PFAS Contamination

Notes:

1. Groundwater results (pink) are micrograms per liter (µg/L) for VOCs and nanograms per liter (ng/L) for PFAS.
2. Soil results (green) are micrograms per kilogram (µg/kg) for VOCs.
3. Groundwater analytical data included from June 2021 and March/April 2023.
4. Soil analytical data included from May 1999, September 2002, and June 2021.
5. Lithology has been interpreted near MW-3 and MW-5 using soil observations at MW-3.
6. Estimated extent of PFAS contamination is based on concentrations greater than 10 ng/L.
7. ND - Not detected
8. J - Result is estimated
9. JL - Result is estimated and biased low.
10. cis-1,2-DCE - cis-1,2-dichloroethene
11. PCE - tetrachloroethene
12. TCE - trichloroethene
13. VC - vinyl chloride
14. VOC - volatile organic compound
15. PFAS - perfluoroalkyl substances
16. PFOS - perfluorooctane sulfonic acid
17. PFOA - perfluorooctanoic acid

Historical Data Sources:
NYSDEC. 2003. Final Preliminary Site Assessment Report, Speedy's Cleaners Site. September.

0 | 25
Horizontal Scale (feet)

0 | 6
Vertical Scale (feet)

Vertical Exaggeration: 4.5x

CDM Smith

Figure 5-1
Cross-Sectional Profile
Speedy's Cleaners Site
Pittsford, New York

STANDARD CROSS SECTION: MATLACK RPT SPEEDYS CLEANERS.GPJ STANDARD_ENVIRONMENTAL_PROJECT.GDT 8/17/23 REV.

- As historical groundwater VOC concentrations appear to be decreasing, discharge from the vadose zone source does not appear to be high enough to sustain an expansion of the plume. It is uncertain if contaminated soil is present below the building; however, the building would significantly reduce mass discharge from vadose zone to groundwater because the building prevents infiltration of precipitation.
- NAPL was not observed at the Speedy's Cleaners Site.
- PCE has not been detected in MW-2, the most hydraulically upgradient Site well, indicating there is no off-site contaminant source.
- Little lateral dispersion is occurring in the groundwater, which likely results in VOC contamination that migrates northeast towards the Oak Hill Country Club in the direction of groundwater flow.
- Historical and current data indicate that the lateral extent of the VOCs in groundwater is approximately 75 feet wide, with the southeastern boundary reaching the approximate midpoint of the northeastern wall of the building and the northwestern boundary reaching approximately 30 feet northwest of the northwestern Site boundary.
- PCE has been detected off-site at hydraulically downgradient locations on the Oak Hill Country Club property. Off-site VOC concentrations are substantially lower than those present on-site and are likely a result of advection processes. Although the downgradient extent of VOC contamination (to the northeast) cannot be fully delineated based on historical and current data, the VOC contaminant plume is long and narrow (a minimum of 200 feet in length) and runs on a southwest-northeast axis in the direction of groundwater flow.
- Contamination is migrating horizontally downgradient via advective transport in the lacustrine deposits where hydraulic conductivity ranges from 0.000283 ft/day to 5.669 ft/day (Domenico & Schwartz, 1990); limited penetration of groundwater and downgradient transport appears to be occurring in the glacial till due to the low hydraulic conductivity (0.000000283 ft/day to 0.567 ft/day [Domenico & Schwartz 1990]) in this matrix. The hydraulic conductivity for the glacial till at the Site is expected to be at the lower end of this range. During RI well installation, refusal was met between 17 and 19 feet bgs on-site and between 8 and 19 feet bgs off-site due to the physical characteristics of the glacial till. Soils at these depths were often dry on recovery, indicating groundwater impacts occur between the surface of the water table and approximately 19 feet bgs.
- Downward migration of contamination from the potential source areas near the north corner of the building and the former vent pipes is likely significant because the area is primarily covered by gravel where rainwater can easily percolate through the soil.
- There is evidence that PCE has degraded through biotic or abiotic pathways in Site groundwater within the extent of VOC contamination (i.e., presence of degradation products of PCE, decrease in PCE and degradation products between 2002 and 2023), but the rate at which degradation occurred is unknown. Given the decrease in VOC

concentrations over time, it is unlikely there is a continuing source of contamination at the Site.

- There is minimal evidence for sustained biotic or abiotic degradation of PCE in the subsurface at the Site, as organic carbon levels in most Site monitoring wells do not lend to sustained dechlorinating bacteria in the long term (with the exception of in MW-5). The elevated levels of VOCs at MW-5 provide an adequate source of organic carbon to sustain the breakdown of PCE into its degradation products.
- PCE in groundwater may volatilize and sorb to soils of the vadose zone (approximately 6 to 12 feet thick). Sub-surface soils have been found to release soil vapor into the Speedy's Cleaners building, requiring the need for the ASD to mitigate this contamination pathway. This pathway is likely insignificant in previously contaminated soils but may occur as contaminants travel with groundwater flow. Additionally, due to the moderate solubility of some Site-related compounds, it is possible contamination is leaching from the soils into the groundwater.
- Saturated soils contain little to no VOC contamination, with no exceedances of the NYSDEC Commercial Use criteria. Historically, shallow soils in the potential source areas contained very high levels of PCE and its degradation products (though PCE only exceeded the NYSDEC Commercial Use standard on one occasion), and concentrations decreased with depth. The current vertical and lateral extent of contamination in shallow soils is unknown due to limited sample data.
- PFAS compounds are not naturally occurring in area groundwater; however, sample results from MW-2, a monitoring well located hydraulically upgradient from potential influences of the Site, indicate the presence of low levels of PFAS compounds in area groundwater. Sources of these PFAS detections are unknown.
- PFAS compounds, especially PFOS and PFOA, were detected in groundwater at concentrations above their respective screening criteria adjacent to and hydraulically downgradient of the facility. Highest concentrations of PFAS are present in on-site well MW-3. The source of these release(s) is not known; however, these contaminants may have been released during the dry cleaning operations.
- Groundwater screening locations GWS-4 and GWS-5 have exhibited relatively low concentrations of PFAS and VOCs indicating they may represent the approximate downgradient extent of the contaminant plume. Detection of 12 ng/L of PFOA at GWS-5 indicates the leading edge of the PFAS plume has reached that location.
- PFOA was detected at low concentrations below the NYSDEC AWQS criteria at GWS-6, GWS-7, and GWS-8, three downgradient screening locations bounding the eastern edge of the plume.
- Ratios of PFOS to PFOA and the ratios of those two compounds to other PFAS compounds can be used to differentiate the site-related PFAS from background detections, however this could not be determined due to the lack of background data.

- Similar to the VOC plume, the PFAS plume has moved from southwest to northeast (with the general direction of groundwater flow) from the known release areas on the northwest corner of the Speedy's Cleaners building.
- It is not known if the PFAS plume is stable due to the limited number of sampling events, however concentrations decrease moving downgradient within the plume. Additional PFAS data may indicate that the plume is stable which is consistent with the known persistence of PFAS.

5.6.3 Receptors

The primary receptors that would be exposed to Site-related contamination are occupants of buildings situated above the regions of contaminated groundwater and soil. PCE vapor is likely migrating from the subsurface into the buildings. Based on the direction of groundwater flow, only the Speedy's Cleaners building, which has an operational ASD, will likely be affected. The Oak Hill Country Club is the building closest to the Site to the northeast and is approximately 0.6 miles away, likely well away from the northeastern extent of contamination based on current data.

The entire Site area is serviced by public water supply. The Oak Hill Country Club uses surface water to irrigate its golf course, and the irrigation supply intake is approximately 0.6 miles downstream of the Site. VOCs were not detected in surface water 0.2 miles upstream of this intake in 2002 (NYSDEC 2003). Shallow groundwater is expected to discharge to streams and other waterbodies near the Site. Regionally, groundwater discharges to Lake Ontario.

Section 6

Findings, Data Gaps, Conclusions, and Recommendations

6.1 Findings

Findings from the RI activities include the following:

- Soil contamination within the saturated zone is very limited, with few VOC detections, all of which were more than three orders of magnitude below the NYSDEC commercial use standards.
- Based on observations from the historical boring logs and reports and from lithologic data obtained during the RI, groundwater primarily flows through the lacustrine silts which are encountered to a depth of approximately 14 feet bgs. Refusal was encountered between 16 feet bgs and 19 feet bgs during the on-site well installation and between 8 and 19 feet bgs during off-site well installation. Due to the tightly compacted nature of the glacial till that lies below the lacustrine silts, little groundwater infiltrates and flows through this matrix. The water bearing zone at the Site has a fairly low hydraulic conductivity, based on average ranges for lacustrine silts and glacial till. Based on this geology, groundwater impacts would primarily occur between the surface of the water table and approximately 19 feet bgs.
- The current extent of the on-site VOCs in groundwater was documented based on a comprehensive round of groundwater sampling at all accessible monitoring wells on Site in 2021 and resampling of two on-site monitoring wells in 2023. Principal contaminants detected above the NYSDEC AWQS included PCE and its degradation products, TCE, *cis*-1,2-DCE, and vinyl chloride. Concentrations of these VOCs exceeded the NYSDEC AWQS by one to two orders of magnitude only in groundwater samples collected in the northern portion of the Site.
- Little to no VOC contamination was observed in groundwater samples collected from wells to the east, south, and southwest of the areas of potential release in the northern portion of the Site.
- The current extent of the off-site VOCs in groundwater was documented based on a round of groundwater sampling at eight groundwater screening locations and three off-site monitoring wells in 2023. Principal contaminants detected above the NYSDEC AWQS included PCE and its degradation products, TCE and *cis*-1,2-DCE. Vinyl chloride was not observed in any off-site monitoring well samples. Concentrations of PCE, TCE, and *cis*-1,2-DCE exceeded the NYSDEC AWQS by one to two orders of magnitude in two groundwater samples collected from hydraulically downgradient locations approximately 40 and 175 feet north of the Site. VOC concentrations were substantially lower at the sampling location approximately 175 feet north of the Site when compared to concentrations on-

and closer to the Site. Although the downgradient extent of VOC contamination (to the northeast) cannot be fully delineated based on historical and current data, the VOC contaminant plume can be inferred to be long and narrow, with a minimum length of 200 feet and a maximum width of 75 feet. The plume runs on a southwest-northeast axis in the direction of groundwater flow.

- VOC contamination in groundwater appears to be decreasing over time, as evidenced by the lower levels of contaminants Site-wide between 2002 and 2023. There is minimal evidence for sustained biotic or abiotic degradation of PCE in the subsurface at the Site, as organic carbon levels in most Site monitoring wells do not lend to sustained dechlorinating bacteria in the long term (with the exception of in MW-5). While biotic and abiotic degradation likely occurred in the past, as evidenced by the presence of degradation products in groundwater, the most likely contributor to the reduction of Site contamination is advection, with lower levels of dilution and dispersion.

- PFOS and/or PFOA were detected in groundwater collected from two on-site wells sampled during 2021 and in two on-site wells, three off-site wells, and eight groundwater screening locations sampled during 2023. In general, PFOS and PFOA concentrations exceeded their respective NYSDEC AWQS by one to two orders of magnitude, with the exception of three screening locations hydraulically downgradient of the Site where concentrations were below the screening criteria. Additionally, the highest concentrations of PFOS and PFOA generally coincided with the highest concentrations of VOCs. 1,4-dioxane was detected at only one well in 2021 and was not widespread throughout the Site.

6.2 Data Gaps

Data gaps illuminated through the RI activities include the following:

- Potential source areas of contamination include the area along the northeastern wall adjacent to the former vent pipes (see Figure A-1 in **Appendix A**) and the area by the north corner of the building, which may have been used for cleaning dry cleaning filters (NYSDEC 2003). Between 1998 and 2002, high PCE concentrations were observed from 2 to 4 feet bgs along the northeastern wall and north of the north corner of the Speedy's Cleaners building. Samples were not collected from these areas during this RI, and because of this, the extent of contamination in these potential source areas is unknown.

- MW-1B, located to the north of the former UST, contained PCE and TCE concentrations (64 B µg/L and 30 µg/L, respectively) above the NYSDEC AWQS in groundwater in 2005. While groundwater samples were not collected in this area in 2002, samples collected at MW-2 (southeast and hydraulically upgradient of MW-1B) contained a low concentration of *cis*-1,2-DCE (3 µg/L) only. In 2021, VOCs were not detected in MW-2. Furthermore, VOC detections were not present in MW-2B, a well located hydraulically downgradient of MW-1B, in 2005 or in 2021, indicating the former UST is not a substantial continuing source of contamination. In 1998, the UST was removed, and in 1999, soils were excavated around the former UST. Because the extent of this excavation is unknown, it is not possible to determine if soils surrounding MW-1B were affected by this remedial action. It is possible

that the presence of VOCs in MW-1B was related to the free product leaked by the UST prior to removal. MW-1B has been abandoned and no other monitoring wells exist in the vicinity; therefore, it is not currently possible to determine if localized VOC contamination in groundwater is present in this area.

- Soil samples were collected from the saturated zone only during the 2021 field investigation, and no soil samples were collected from the vadose zone. Historically, contamination was highest in samples collected closest to the ground surface (PCE concentrations of 748,000 µg/kg from 3 to 4 feet bgs in 1999 and 111,000 µg/kg from 3 to 4 feet bgs in 2002), with contamination decreasing with depth (PCE concentrations of 111,000 µg/kg at 3 to 4 feet bgs and 8,500 µg/kg from 6 to 6.5 feet bgs at the same location). Because samples were not collected from the shallow soils and from multiple depths at a single location, the vertical extent of soil contamination at the Site is unknown.

- PCE and its degradation products have decreased in Site groundwater between 2002 and 2023, indicating conditions for natural attenuation were favorable over this time period. MNA parameters were collected Site-wide during the 2021 field activities and in off-site wells during the 2023 field activities to assess the capacity for degradation of Site VOC contaminants via biotic and abiotic pathways. However, due to the limited nature of the temporally spaced data available, it is not possible to determine the degradation rate of PCE and its byproducts. Consequently, the amount of time required to reach VOC concentrations below the NYSDEC AWQS on- and off-site cannot be determined. PFAS was analyzed in samples collected at two of eight Site monitoring wells and one of four soil borings during 2021 field activities and at two on-site wells, three off-site wells, and eight groundwater screening locations during 2023 field activities. PFAS was not detected in soil in 2021. PFAS was detected in groundwater collected at two monitoring wells in 2021, MW-2 and MW-6, with concentrations of PFOS and PFOA above the NYSDEC AWQS. Additionally, PFAS was detected in groundwater collected at all sampling locations in 2023, with PFOS and/or PFOA above the NYSDEC AWQS at all but three screening locations. With limited Site-wide data, it is not possible to fully characterize the extent of these emerging contaminants at the Site.

- Groundwater samples collected in 2021 and 2023 indicate that the area of highest VOC and PFAS contamination remains north of the north corner of the building. PCE and its degradation products were detected above their respective NYSDEC AWQS at MW-5 and MW-3 only, with PCE concentrations below the NYSDEC AWQS at MW-3. PCE and its degradation products (with the exception of vinyl chloride) were detected above their respective NYSDEC AWQS off-site at hydraulically downgradient sampling locations MW-10 and GWS-5, indicating VOC contamination has migrated off-site in the direction of groundwater flow. The VOC plume has been delineated in all directions except to the northeast, and the leading edge is constrained by groundwater screening locations GWS-4 to the west and GWS-6 to the east. VOC concentrations decreased substantially between the source area and the most hydraulically downgradient sampling location, GWS-5. While this pattern indicates that the levels at which VOC concentrations would be below the NYSDEC AWQS is not likely to be much farther downgradient than GWS-5, the leading edge of the contaminant plume cannot be fully delineated based on current data.

6.3 Conclusions

Conclusions from the RI activities include:

- PCE and its degradation products, TCE, *cis*-1,2-DCE, and vinyl chloride, remain in groundwater in the northern portion of the Site at levels above the NYSDEC AWQS. These contaminants are traveling via advective transport with groundwater to the northeast, as evidenced by concentrations of PCE, TCE, and *cis*-1,2-DCE that exceed the NYSDCE AWQS in samples collected approximately 40 feet and 175 feet north of the northeastern Site boundary. This has resulted in a long, narrow plume (minimum length of 200 feet; maximum width of 75 feet) running on southwest-northeast axis. The northwestern boundary of the contaminant plume extends approximately 30 feet northwest of the northwestern Site boundary, with the southeastern boundary reaching the approximate midpoint of the northeastern wall of the building. VOC concentrations at GWS-5, the most hydraulically downgradient location, were substantially lower than VOC concentrations both on-site at MW-5 and off-site at MW-10. Although the northeastern extent of the leading edge of the plume is not delineated, based on this decreasing concentration pattern, the levels at which VOC concentrations would be below the NYSDEC AWQS or other actionable levels for active remediation is not likely to be much farther downgradient than GWS-5. Between 2002 and 2023, Site-related VOC concentrations have decreased significantly, likely due to degradation via biotic or abiotic processes and advective transport; this trend will presumably continue as there is no evidence of a continuing source of contamination. Due to limited temporally spaced data, it is not possible to determine the rate at which degradation occurs at the Site, or the amount of time required to reach VOC concentrations below the NYSDEC AWQS on- and off-site. Groundwater impacted by Site contamination ranges from the surface of the water table to approximately 19 feet bgs, where glacial till becomes too dense for groundwater to permeate. Groundwater does not pose a risk to human health or the environment because exposure pathways are either incomplete or addressed via mitigation measures (i.e., ASD for indoor air).

- Site-related contamination is not present at significant levels in saturated soils. Historically, the highest levels of soils contamination occurred within the vadose zone between 2 to 4 feet bgs and in the areas adjacent to the former vent pipes and to the north of the north corner of the Speedy's Cleaners building. VOC concentrations appeared to decrease with depth. Because samples were not collected within the vadose zone nor within the potential source areas during the 2021 and 2023 RI activities, the current lateral and vertical extent of contaminated soils is unknown. However, based on historic concentrations of Site-related contaminants in soil, it is possible that significant levels of contamination remain in soils within the vadose zone. The ASD continues to operate to mitigate any off-gassing of VOCs in subsurface soils to indoor air of the Speedy's Cleaners building.

6.4 Recommendations

Based on the results of this RI, sufficient characterization of groundwater contamination was completed to prepare an FS to address remedial activities for on-site groundwater. The

uncertainty surrounding VOC contamination in soils due to the limited data from the potential sources and within the vadose zone could be accommodated for in the FS, since it is assumed that a source exists in the area that will likely require remediation. During the pre-design phase of the remedial design, it is recommended that a series of soil samples be collected in the northern portion of the Site, particularly in the potential source areas of contamination (i.e., adjacent to the vent pipes and north of the north corner where dry cleaning filters may have been cleaned), that range in depth across the vadose zone. These samples will allow for characterization of the extent of Site soil contamination. CDM Smith recommends proceeding with preparation of the FS for groundwater remediation.

This page intentionally left blank.

Section 7
References

Agency for Toxic Substances & Disease Registry. 1999. Soil Adsorption Values.

CDM Smith. 2020 Generic Quality Assurance Project Plan. May.

Chapelle, F.H., 1993. Ground-Water Microbiology and Geochemistry: John Wily & Sons. Inc. New York. 424 p.

Domenico & F. W. Schwartz. 1990. Physical and Chemical Hydrogeology. xxii 824 pp. New York, Chichester, Brisbane, Toronto, Singapore: John Wiley & Sons. Geological Magazine. September.

He, Y.T., Wilson, J.T., and Wilkin, R.T. 2010. Impact of iron sulfide transformation on trichloroethylene degradation. *Geochimica Cosmochica* Acta, 74, 2025-2039.

HSW. 2021. Florida Statewide PFAS Pilot Study at Drycleaning Sites (White Paper). May.

ITRC. 2021. "PFAS – Per- and Polyfluoroalkyl Substance, 5 Environmental Fate and Transport Processes." https://pfas-1.itrcweb.org/5-environmental-fate-and-transport-processes/#5_5. Accessed October 6, 2023.

Lee, W. and Batchelor, B. 2004 Abiotic reductive dechlorination of chlorinated ethylenes by iron-bearing phyllosilicates. Chemosphere, 56, 999-1009.

Lee, W., Batchelor, B. 2002a. Abiotic reductive dechlorination of chlorinated ethylenes by iron bearing soil minerals. 2. Green rust. Environmental Science and Technology 36, 5348–5354.

Lee, W., Batchelor, B. 2002b. Abiotic reductive dechlorination of chlorinated ethylenes by iron bearing soil minerals. 1. Pyrite and magnetite. Environmental Science and Technology 36, 5147–5154.

Liebe, R. M. and Grasso, T. X. 1988. Geology of the Rochester Gorge, Rochester, New York: Northeast Geol. v. 10, pp. 13-18.

NYSDEC. 2021. Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS). January.

NYSDEC. 2010. *DER-10 Technical Guidance for Site Investigation and Remediation*. June

NYSDEC. December 2006. 6 New York Codes, Rules and Regulations (NYCRR) Part 375 (Environmental Remediation Programs) Subpart 375-6.

NYSDEC. 2003. Final Preliminary Site Assessment Report, Speedy's Cleaners Site. September.

NYSDEC Division of Environmental Remediation (DER). 2012. Decision Document – Speedy's Cleaners Brownfield Cleanup Program. December.

Passero Associates. 2012. Final Engineering Report. December 2012.

Passero Associates. 2006. Brownfield Cleanup Program (BCP) Time Critical Interim Remedial Measure (IRM) Work Plan. January.

USEPA. 2018. Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537. November.

USEPA. 2016. SOP Number HW-33A, Revision 1: Low/Medium Volatile Data Validation. September.

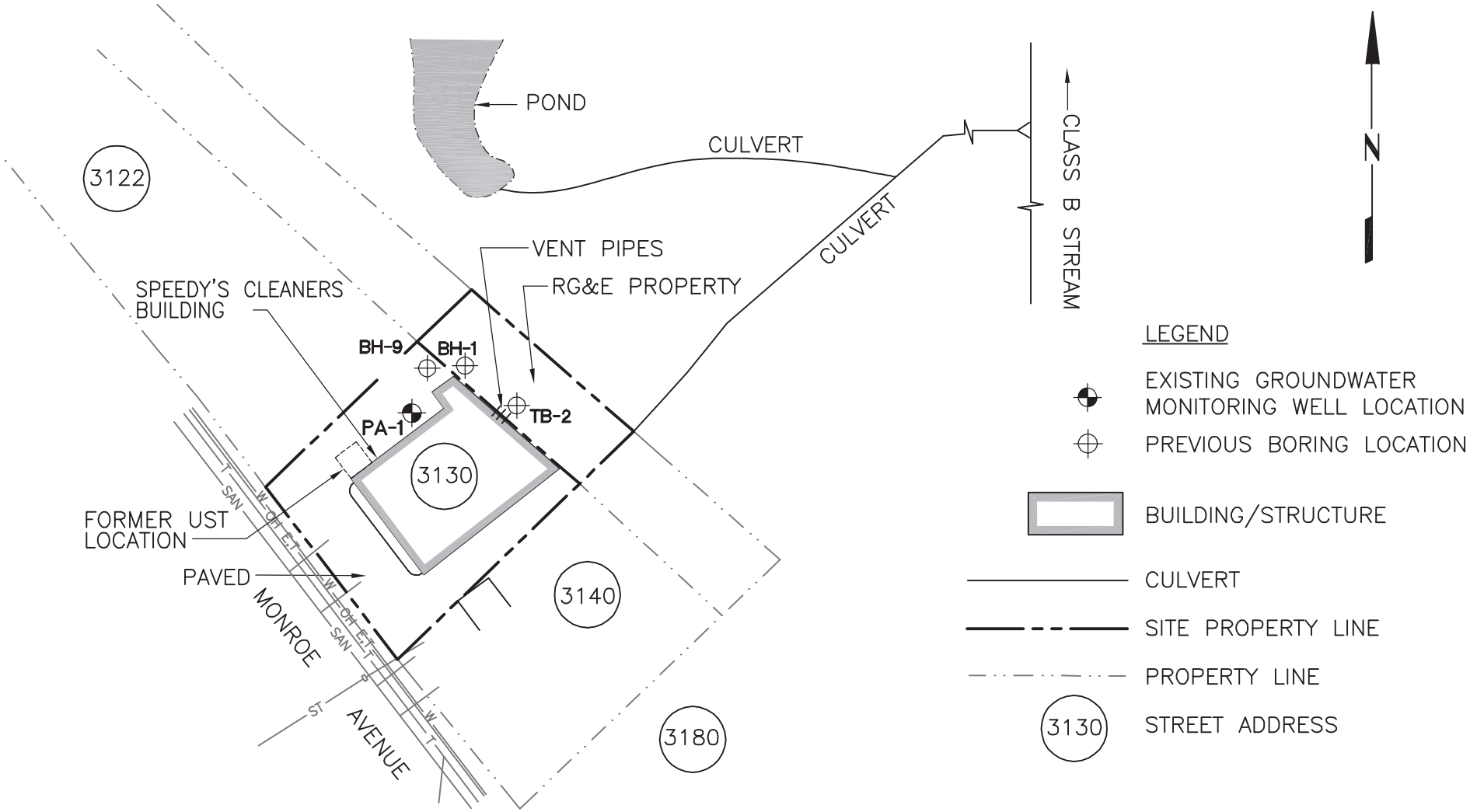
Wiedemeier, T.H., Rifai, H.S., Newell, C.J., and Wilson, J.T. 1998. Natural Attenuation of Fuels and Solvents in the Subsurface: John Wiley and Sons. New York.

Appendix A

Historic Report Reference Figures

- *Figure A-1 Site Map (NYSDEC 2003)*
- *Figure A-2 VOCs Detected in Groundwater (NYSDEC 2003)*
- *Figure A-3 Groundwater Elevation Contours and VOC Results (Passero 2012)*
- *Figure A-4 Soil Samples – Location & Results (Passero 2012)*

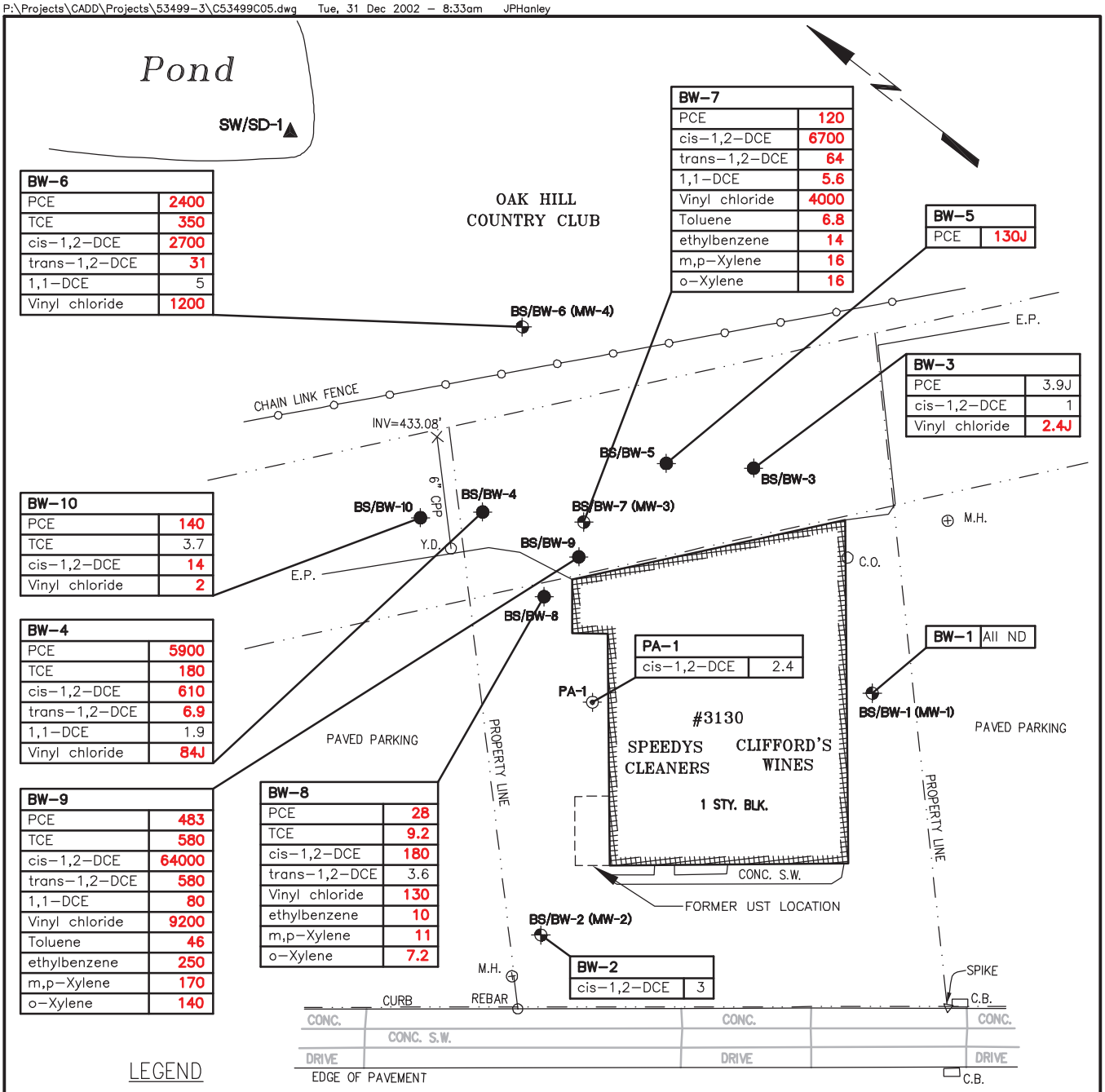
P:\Projects\CADD\Projects\53499-3\C53499C06.dwg Fri, 14 Mar 2003 - 10:00am jphanley



CDM SMITH FIGURE A-1

FIGURE 2-1
SITE MAP
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK
Harding Lawson Associates

P:\Projects\CADD\Projects\53499-3\C53499C05.dwg Tue, 31 Dec 2002 - 8:33am JPHanley



LEGEND

- PA-1 — 2 INCH MONITORING WELL
- BS/BW-1 (MW-1) — 1 INCH MICROWELL
- BS/BW-10 — BORING LOCATION
- SW/SD-1 — SURFACE WATER & SEDIMENT SAMPLE LOCATION
- M.H. — MAN HOLE
- Y.D. — YARD DRAIN
- BUILDING LINE
- C.B. — CATCH BASIN
- C.O. — CLEAN OUT
- CHAIN LINK FENCE
- PROPERTY LINE
- E.P. — EDGE OF PAVEMENT

NOTES:

SAMPLE RESULTS IN MICROGRAMS PER LITER. RESULTS ARE MAXIMUM ON-SITE RESULTS PER BORING.

2400 - RESULTS IN RED EXCEED NEW YORK STATE CLASS GA GROUNDWATER STANDARDS

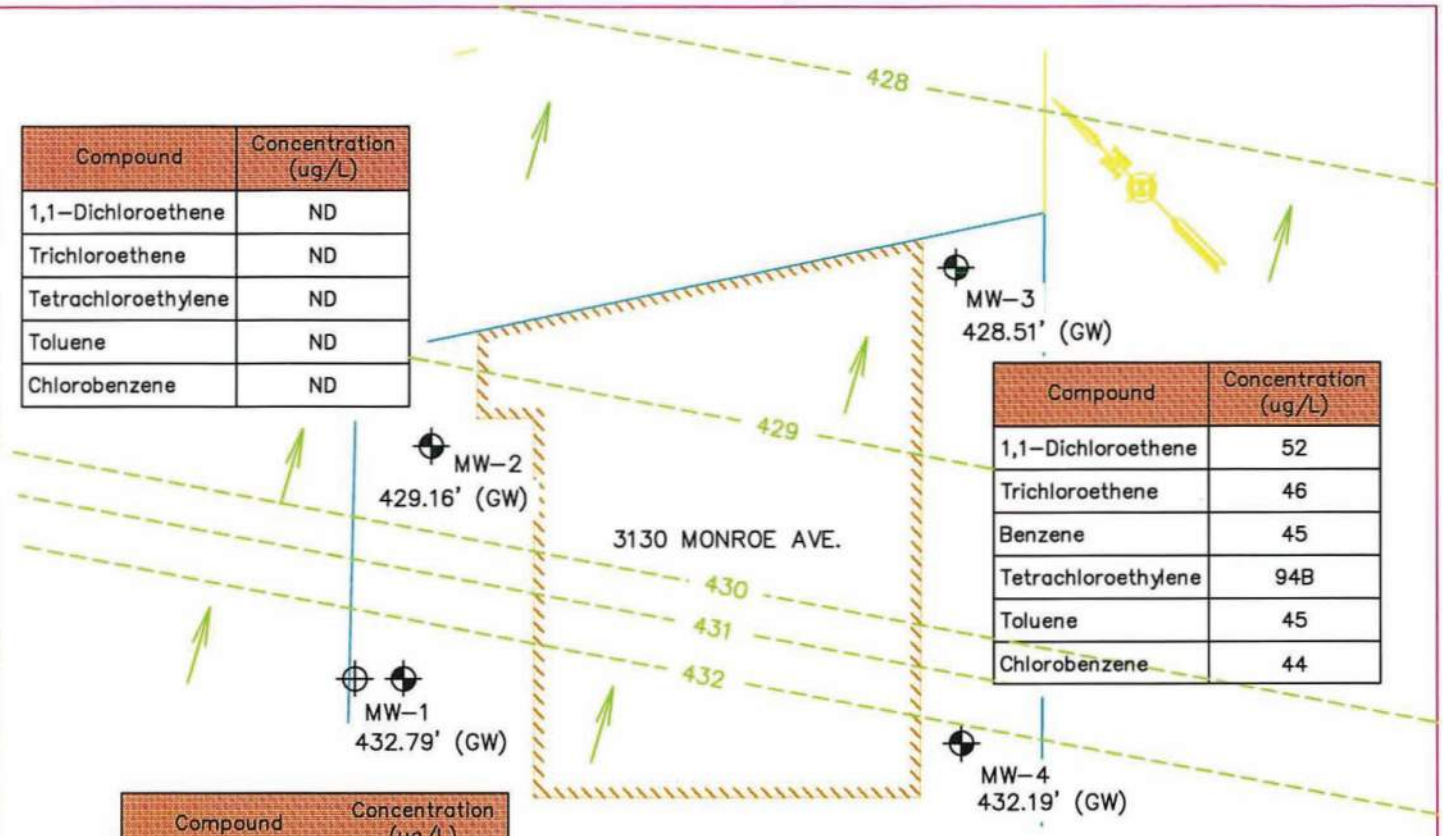
0 20 40

Scale in feet

CDM SMITH FIGURE A-2

FIGURE 4-1
VOCs DETECTED IN GROUNDWATER
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates



Compound	Concentration (ug/L)
1,1-Dichloroethene	ND
Trichloroethene	ND
Tetrachloroethylene	ND
Toluene	ND
Chlorobenzene	ND

Compound	Concentration (ug/L)
1,1-Dichloroethene	52
Trichloroethene	46
Benzene	45
Tetrachloroethylene	94B
Toluene	45
Chlorobenzene	44

Compound	Concentration (ug/L)
1,1-Dichloroethene	33
Trichloroethene	30
Tetrachloroethylene	64B
Toluene	29
Chlorobenzene	28
Benzene	29

Compound	Concentration (ug/L)
Ethylbenzene	130
Total Xylenes	1,000
Isopropylbenzene	680

(GW) = GROUND WATER ELEVATION MEASURED

Compound	SCGs (ug/L)
1,1-Dichloroethene	5
Trichloroethene	5
Tetrachloroethylene	5
Toluene	5
Chlorobenzene	5
Benzene	2
Ethylbenzene	5
Isopropylbenzene	5

CDM SMITH FIGURE A-3

Decision Document Figure 2

Passero Associates
100 Liberty Pole Way, Rochester, NY 14604
585-325-1000 FAX: 585-325-1691
www.passero.com
Engineering Surveying
Architecture Planning

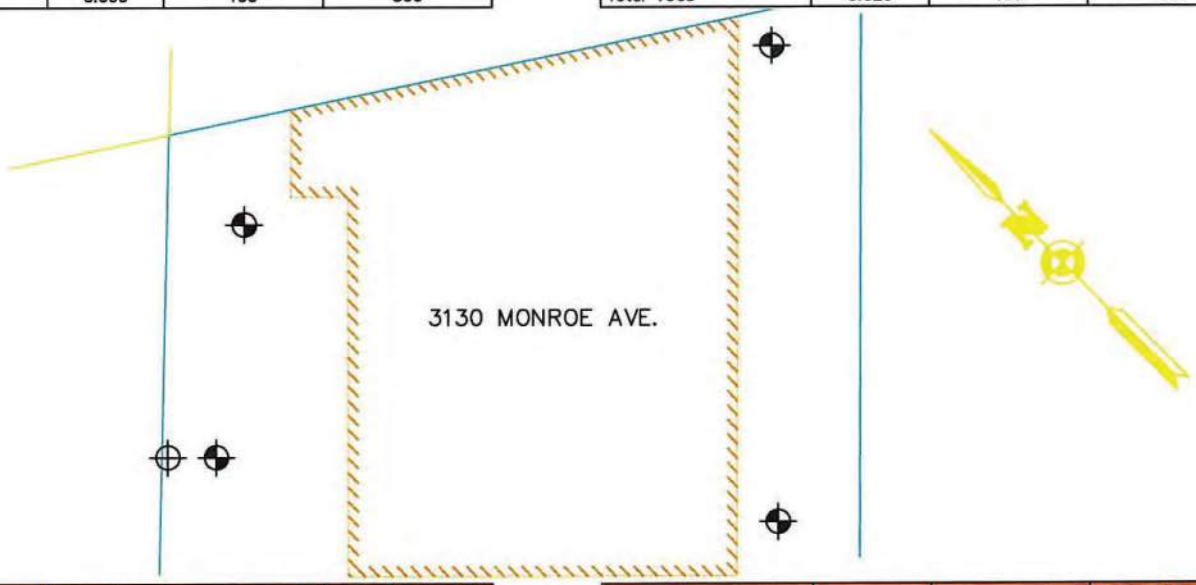
Project:	SPEEDY'S CLEANERS BCP FIGURE 6 GROUNDWATER ELEVATION CONTOURS AND VOC RESULTS SEPTEMBER 9, 2005
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109

Scale:	1" 30'
Date:	03-28-2012
PIC:	John Caruso, P.E.
PM:	Ed Freeman, P.L.S.
Designer:	R.D.C.
Project No.	99000018.0015

S:\ENVRO ESA TECH\45-12-043\CHRISTOPHER WILLIAMS AGENCY\99018.15\DRAWINGS\RAW FINAL MONROE AVE NO 3130 FIGURE 2.DWG 11/12/2012 10:59 AM Ryan Burke

Sample ID Sample Depth Sampling Date units	BH-2 2'-6' 7/13/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.016	0.05	500
Acetone	0.007 J	0.05	500
Carbon Disulfide	ND	NS	NS
2-Butanone	ND	NS	NS
Ethylbenzene	ND	1	1
Total Xylenes	ND	0.26	1.6
Cyclohexane	ND	NS	NS
Methylcyclohexane	ND	NS	NS
Isopropylbenzene	ND	NS	2.3
Trichloroethene	0.003 J	0.47	0.47
Tetrachloroethene	0.670 D	1.3	1.3
cis-1,2-Dichloroethene	0.003 J	0.25	500
Total TICs	0	NS	NS
Total VOCs	0.699	100	500

Sample ID Sample Depth Sampling Date units	BH-3 2'-6' 7/13/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.021	0.05	500
Acetone	ND	0.05	500
Carbon Disulfide	ND	NS	NS
2-Butanone	ND	NS	NS
Ethylbenzene	ND	1	1
Total Xylenes	ND	0.26	1.6
Cyclohexane	ND	NS	NS
Methylcyclohexane	ND	NS	NS
Isopropylbenzene	ND	NS	2.3
Trichloroethene	ND	0.47	0.47
Tetrachloroethene	0.005	1.3	1.3
cis-1,2-Dichloroethene	ND	0.25	500
Total TICs	0	NS	NS
Total VOCs	0.026	100	500



Sample ID Sample Depth Sampling Date units	BH-1 6'-8' 7/14/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.045	0.05	500
Acetone	0.310 E**	0.05	500
Carbon Disulfide	0.005 J	NS	NS
2-Butanone	0.120	NS	NS
Ethylbenzene	0.006	1	1
Total Xylenes	0.017	0.26	1.6
Cyclohexane	0.042 J	NS	NS
Methylcyclohexane	0.200	NS	NS
Isopropylbenzene	0.120	NS	2.3
Trichloroethene	ND	0.47	0.47
Tetrachloroethene	ND	1.3	1.3
cis-1,2-Dichloroethene	ND	0.25	500
Total TICs	6.480	NS	NS
Total VOCs	7.355	100	500

Sample ID Sample Depth Sampling Date units	BH-4 8'-10' 7/13/05 ppm	Part 375-6.8(a): Unrestricted Use SCO	* Part 375-6.8(b) Restricted Commercial Use SCO and CP-51 Soil Cleanup Guidance
Methylene chloride	0.025	0.05	500
Acetone	0.058	0.05	500
Carbon Disulfide	0.002 J	NS	NS
2-Butanone	0.010	NS	NS
Ethylbenzene	ND	1	1
Total Xylenes	ND	0.26	1.6
Cyclohexane	ND	NS	NS
Methylcyclohexane	ND	NS	NS
Isopropylbenzene	ND	NS	2.3
Trichloroethene	ND	0.47	0.47
Tetrachloroethene	0.004	1.3	1.3
cis-1,2-Dichloroethene	ND	0.25	500
Total TICs	0	NS	NS
Total VOCs	0.099	100	500

S:\ENVIRO ESA TECH\45-12-043\CHRISTOPHER WILLIAMS AGENCY\99018.15\DRAWINGS\RAW FIANL MONROE AVE NO 3130 FIGURE 2.DWG 11/12/2012 10:56 AM Ryan Burke

CDM SMITH FIGURE A-4

Passero Associates
100 Liberty Pole Way, Rochester, NY 14604
585-325-1000 FAX: 585-325-1691
www.passero.com
Engineering Surveying
Architecture Planning

Project:	SPEEDY'S CLEANERS BCP FIGURE 4 SOIL SAMPLES - LOCATION & RESULT JULY 13 & 14, 2005	Scale: 1" 30' Date: 03-28-2012 PIC: John Caruso, P.E. PM: Ed Freeman, P.L.S.
Client:	SPEEDY'S CLEANERS SITE PITTSFORD, NEW YORK SITE NO. 8-28-109	Designer: R.D.C. Project No. 99000018.0015

Appendix B

Soil Boring Logs and Well Construction Logs

- *2021 RI Soil Boring Logs and Well Construction Logs*
- *2023 RI Soil Boring Logs and Well Construction Logs*
- *Historical Soil Boring Logs (NYSDEC 2003)*

2021 RI Soil Boring Logs and Well Construction Logs

CDM Smith

Client: NYSDEC
Project Location: Pittsford, NY
Drilling Contractor: Parratt - Wolff
Drilling Method: DPT
Sample Method: Split Spoon
Drilling Date: 6/21/2021
North:
East:

Boring Name: BS-11 / MW-5
Project Name: Speedy Cleaners
Project Number:
Surface Elevation (ft amsl):
Total Depth: 18.5'
Depth to Initial Water Level (ft bgs): 12.21
Field Screening Instrument: PID
Logged by: E. Biancaniello

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			0-4	2.6/4.0	2.0 - 0.0 2.5 - 0.0 3.0 - 0.0 3.5 - 0.0 4.0 - 0.0		0 - 1.4: No recovery. 1.4 - 2.0: Dry, brown to dk brown, well graded fine to medium gravel, with fine to medium sand. 2.0 - 2.4: Dry, gray, well graded, subangular grava pieces, some fine to medium sand. 2.4 - 2.8: Dry, black, well graded, fine to medium sand, some fine to medium gravel 2.8 - 3.1: Dry to moist, orange to brown, poorly graded, fine to medium sand, little fine to med. gravel. 3.1 - 4.0: Dry to moist, orange to brown non plastic clay.
			4-8	2.5/4.0	6.5 - 0.0 6.0 - 0.0 6.5 - 0.0 7.0 - 0.0 7.5 - 0.0 8.0 - 0.0		4.0 - 5.4: No recovery. 5.4 - 8.0: moist, orange to brown, non plastic clay. - 5.0 - 5.8: Slite Black, dry to moist, fine to medium sand, poorly graded, little fine to medium gravel.
			8-12	3.0/4.0	9.0 - 0.0 9.5 - 0.0 10.0 - 0.0 10.5 - 0.0 11.5 - 0.0		8.0 - 9.0: No Recovery. 9.0 - 12.0: Dry to moist, sticky, slightly plastic, orange to brown clay - From 9.0 - 9.2: Black clay

Remarks: Water table started at 12'
Refusal at 18.5' bgs

Boring Completion Depth ft bgs 18.5'

CDM Smith

Boring Name: MW-5

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Speedy Cleaners
Project Number:

Drilling Contractor: Parratt-Wolff
Drilling Method: DPT
Sample Method: Split Spoon
Drilling Date: 6/21/2021
North:
East:

Surface Elevation (ft amsl):
Total Depth: 18.5'
Depth to Initial Water Level (ft bgs): 12.21'
Field Screening Instrument:
Logged by: E. Biancaniello

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			12-16	3.0/4.0	13.5 - 8.5		12.0 - 13.0: No recovery 13.0 - 13.6: moist to wet, dark brown, moderately plastic clay. 13.6 - 14.0: Dk brown to black, dry to moist, fine to medium well graded sand, some fine to coarse gravel. 14.0 - 14.8: moist, brown, slightly plastic clay, packed with medium to coarse gravel. 14.8 - 16.0: Dry to moist, gray/brown well graded, coarse gravel densly packed, some clay
			16-19		16.0 - 0.0 16.5 - 0.0 17.0 - 0.0 18.0 - 0.0 19.0 - 0.0		16.0 - 17.5: Wet, sticky, orange to dk brown, slightly plastic silty clay, some fine to medium gravel. * 17.5 - 19.0: Wet, Densly packed Till, subangular. 18.6 - 19.0: Dry

Remarks:

Boring Completion Depth ft bgs 19'

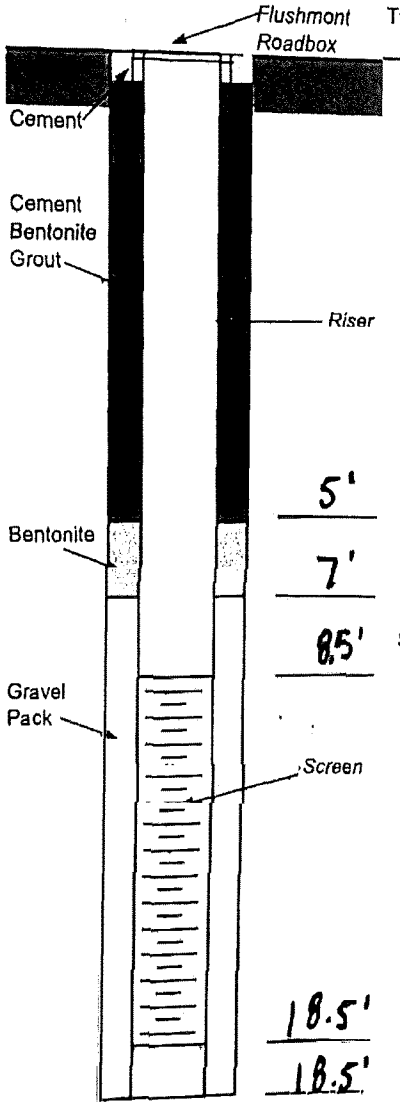
CDM Smith

WELL CONSTRUCTION SUMMARY

Project: Speedy Cleaners Location: Pittsford, NY Well No.: MW-5

Permit No.:

TOC elev.: ground surface Type: Flushmount



5'

7'

8.5'

18.5'

18.5'

DRILLING SUMMARY

Drilling Company: Parratt-Wolff Drillers:

Drill Rig/Model:

Borehole Diameters: Drilling Fluid: None

Bits/Depths:

Total Depth: 19' Depth To Water: 10.90'

Supervisor Geologist: E. Blancaniello

WELL DESIGN

Casing Material: Sch. 40 PVC Diameter: 2-inch

Screen Material: PVC Diameter: 2.5" OD

Slot Size: 0.010 inch Setting: 8' to 18'

Filter Material: #0.1 Filter Setting: 7' to 8'

Seals Material: Bentonite Pellets Setting: 5' to 7'

Grout: Type I/II Cement Setting: 0' to 5'

Surface Casing Material: Steel Setting: Ground Surface

TIME LOG

	Started	Completed
Drilling:	6/2/2021	6/2/2021
Installation:	6/2/2021	6/2/2021
Development:	6/3/2021	6/3/2021

WELL DEVELOPMENT

Method: Surge and pump

Static Depth to Water: 12.21'

Pumping Depth To Water: —

Pumping Rate: — Spec. Capacity: —

Volume Pumped: —

CDM Smith

Client: NYSDEC
Project Location: Pittsford, NY

Boring Name: BS-12/MW-6
Project Name: Speedys Cleaners
Project Number:

Drilling Contractor: Parratt-Wolff
Drilling Method: Direct push technology (DPT)
Sample Method: Split spoon
Drilling Date: 6/2/2021
North:
East:

Surface Elevation (ft amsl):
Total Depth: 18'
Depth to Initial Water Level (ft bgs): 11.57'
Field Screening Instrument: PID
Logged by: E. Biancaniello

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			0-4	4.0/4.0	1.0 - 0.0 1.5 - 0.0 2.0 - 0.0 3.0 - 0.0 3.5 - 0.0		0.0-1.7: Dry, loose, very fine to coarse, brown to dk brown, well graded gravel with f-m sand, organic material fill (Black) 1.7-2.9: Dk brown to black, dry to moist, poorly graded, fine to medium sand, little fine to medium gravel. 2.9-3.2: Light gray, dry, packed, poorly graded subangular gravel fill, little very fine to fine sand. 3.2-4.0: ~~moist~~, densely packed, light brown clay, dry to moist, non plastic.
			4-8	3.5/4.0	5.2 - 0.0 6.0 - 0.0 6.5 - 0.0 7.0 - 0.0 8.0 - 0.0		4.0-4.6: No recovery 4.6-5.0: Dry, loose, fine to medium, gray/brown, well graded gravel. 5.0-5.9: Dry, brown to black, well graded, fine to medium sand with coarse gravel. 5.9-6.0: ~~moist~~, Dry to moist, brown to black clayey sand, some medium to coarse gravel. 6.0-8.0: moist to ~~wet~~, Light brown, sticky, non plastic clay, Dry to moist

Remarks: water table at 11.0' bgs
Sample taken at highest PID reading at 14'-16' bgs
Refusal at 18' bgs.

Boring Completion Depth ft bgs 18'

CDM Smith

Client: NJDEP
Project Location: Pittsford, NY
Drilling Contractor: Parratt - Wolff
Drilling Method: Direct Push Technology (DPT)
Sample Method: Split Spoon
Drilling Date: 4/2/2025
North:
East:

Boring Name: BS-12 / MW-6
Project Name: Speedy Cleaners
Project Number:
Surface Elevation (ft amsl):
Total Depth: 18'
Depth to Initial Water Level (ft bgs): 11.57'
Field Screening Instrument: PID
Logged by: E. Blancarelli

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			8-12	3.5/4.0	8.0 - 0.0 8.5 - 0.0 9.0 - 0.0 9.5 - 0.0 10.5 - 0.0 11.5 - 0.0		8.0-8.5: NO recovery 8.5-9.5: Dry to moist, DK brown, well graded, fine to medium SAND, with medium to coarse gravel. 9.5-11.6: Wet, light brown / brown, moderately plastic clay. 11.6-12.0: wet, light gray, moderately plastic clay.
			12-16	2.4/4.0	14.0 - 0.2 15.6 - 9.9 15.0 - 11.2 14.5 - 13.7		12.0-13.6: NO RECOVERY 13.6-14.0: Reddish brown, moist, non plastic clay, with medium to fine gravel. 14.0-16.0: Dry to moist, Gray to brown, non plastic clay, some medium to coarse gravel / coarse rock. * TILL material causes refusal *
			16-18		16.0 - 0.0 16.5 - 0.0 17.5 - 0.0		16.0-17.0: Dry, brown, non plastic clay, with fine to medium, well graded gravel. *ODOR - FUEL* 17.0-18.0: Tightly packed, Dry, medium to coarse gravel pack (large gray pieces). @ encountered TILL - refusal *

Remarks:

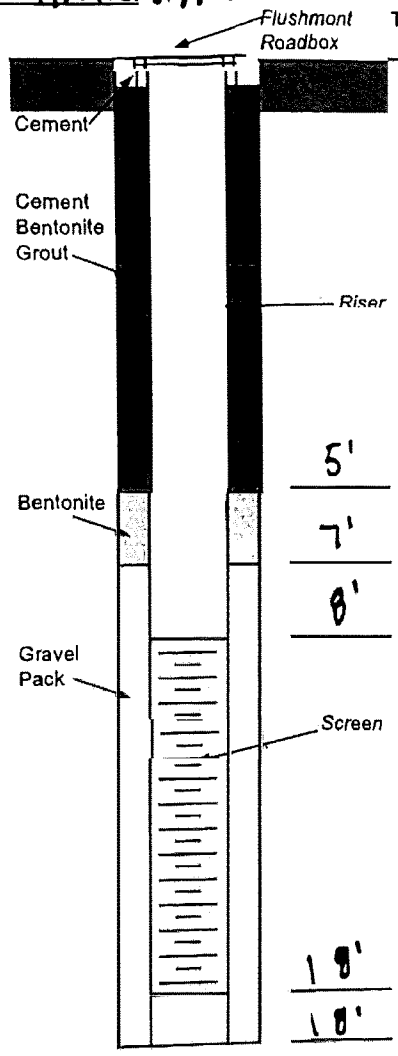
Boring Completion Depth ft bgs 18'

CDM Smith

WELL CONSTRUCTION SUMMARY

Project: Speedy Cleaners Location: Pittsford, NY Well No.: MW-6
Permit No.:

TOC elev.: Ground Surface



Type: Flush mount

DRILLING SUMMARY

Drilling Company: Parratt-Wolff Drillers:
Drill Rig/Model: 3822 DT
Borehole Diameters: Drilling Fluid: None
Bits/Depths:
Total Depth: 18' Depth To Water: 11.57'
Supervisor Geologist: E. Biancaniello

WELL DESIGN

Casing Material: Schedule 40 PVC Diameter: 2-inch
Screen Material: PVC Diameter: 2.0-inch OD
Slot Size: 0.010 inch Setting: 8' to 18'
Filter Material: No. 1 Filpro Setting: 5' to 7'
Seals Material: Bentonite Setting: 1' to 5'
Grout: Type 1/2 cement Setting: 0' to 1'
Surface Casing Material: Steel Setting: ft

TIME LOG

	Started	Completed
Drilling:	6/2/2021	6/2/2021
Installation:	6/2/2021	6/2/2021
Development:	6/2/2021	6/3/2021

WELL DEVELOPMENT

Method: Surge and pump
Static Depth to Water: 11.57' bgs
Pumping Depth To Water:
Pumping Rate: Spec. Capacity:
Volume Pumped:

Latitude: 43.1071
Longitude: -77.5420

CDM Smith

Client: NYSDEC
Project Location: Pittsford, NY
Drilling Contractor: Parratt-Wolff
Drilling Method: Direct Push Technology (DPT)
Sample Method: Split Spoon
Drilling Date: 6/11/2021
North:
East:

Boring Name: B5-13
Project Name: Speedys Cleaners
Project Number:
Surface Elevation (ft amsl):
Total Depth: 17'
Depth to Initial Water Level (ft bgs): 9.95'
Field Screening Instrument: PID
Logged by: E. Biancanello

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			0-4	4.0/4.0	1.0 - 0.0 2.0 - 0.0 2.5 - 0.0 3.0 - 0.0 3.5 - 0.0		0.0 - 1.0: Dry, loose, dk gray to black asphalt fill 1.0 - 1.8: moist, densly packed, poorly graded, black, fine-med SAND, little med-coarse gravel. 1.8 - 2.6: Dry, loose, well graded, light gray to black, fine to coarse gravel, some brown, poorly graded f-med SAND 2.6 - 4.0: moist, brown, non-plastic clay.
			4-8	2.0/4.0	6.5 - 0.0 7.5 - 0.0		4.0 - 6.0: NO RECOVERY 6.0 - 8.0: moist, brown, moderately plastic clay
			8-12	3.0/4.0	11.0 - 5.6 11.2 - 20.0		8.0 - 9.0: no recovery 9.0 - 9.4: moist, dk brown, non plastic clay, some medium to coarse sand, little fine-med gravel. 9.4 - 10.0: moist to wet, densly packed fine to coarse, black SAND, (PID) some non plastic clay. 10.0 - 10.5: wet, densly packed, brown/gray, moderately plastic clay. 10.5 - 12.0: wet, densly packed, dk gray, plastic clay.
			12-16	2.7/4.0	13.4 - 5.7 14.0 - 0.0		12.0 - 13.3: NO RECOVERY 13.3 - 14.0: moist to wet, densly packed, gray to brown, slightly plastic clay.

Remarks: water table at 10' bgs
Sample at highest PID at 10-12 ft bgs.
Refusal at 17' bgs.

Boring Completion Depth ft bgs 17'

CDM Smith

Boring Name: BS-13

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Specialty Cleaners
Project Number:

Drilling Contractor: Parratt-Wolff
Drilling Method: Direct Push Technology (DPT)
Sample Method: Split Spoon
Drilling Date: 6/1/2021
North:
East:

Surface Elevation (ft amsl):
Total Depth: 17'
Depth to Initial Water Level (ft bgs): 9.95'
Field Screening Instrument: PID
Logged by: E. Biancaniello

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
					15.5 -	0.0	14.0 - 16.0: Loose, wet, gray to tan, well graded TILL subangular, Red clay throughout
			16.0-18	20/4.0			16.0 - 16.5: moist to wet, tan, non plastic clay, little fine to medium gravel
							16.5 - 17.2: Dry to moist, brown/gray, Densly packed sand (fine to medium), some fine to coarse, well graded gravel, some clay.

Remarks:

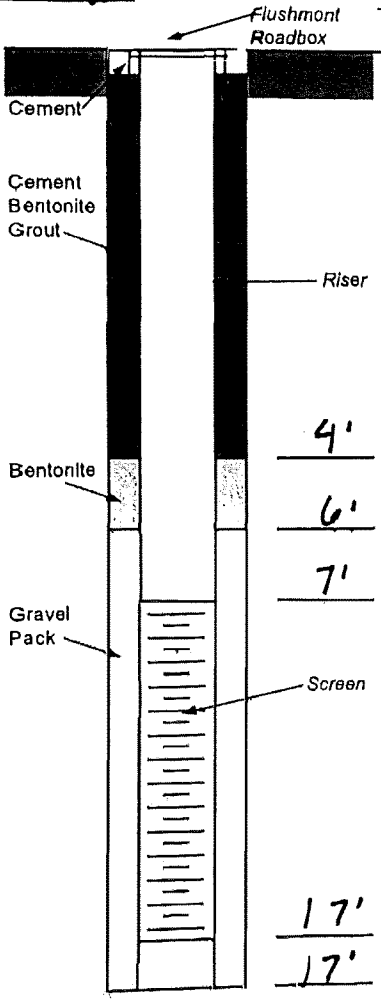
Boring Completion Depth ft bgs 17'

CDM Smith

WELL CONSTRUCTION SUMMARY

Project: Speedy Clean Location: Pittsford, NY Well No.: MW-7 Permit No.:

TOC elev.: Ground surface Type: Flushmount



DRILLING SUMMARY

Drilling Company: Parratt-Wolff Drillers:
Drill Rig/Model:
Borehole Diameters: Drilling Fluid: None
Bits/Depths:
Total Depth: 17' Depth To Water: 9.95'
Supervisor Geologist: E. Biancamello

WELL DESIGN

Casing Meteriel: Schedule 40 PVC Diameter: 2 inch
Screen Material: PVC Diameter: 2.8" OD
Slot Size: 0.010 inch Setting: 7' to 17'
Filter Material: No. 1 Filpro Setting: 4' to 6'
Seals Material: Bentonite Setting: 1' to 4'
Grout: Filpro 1/2 cement Setting: 0' to 1'
Surface Casing Meteriel: Steel Setting: Ground surface

TIME LOG

	Started	Completed
Drilling:	6/1/2021	6/1/2021
Installation:	6/1/2021	6/1/2021
Development:	6/2/2021	6/2/2021

WELL DEVELOPMENT

Method: Surge and pump
Static Depth to Water: 9.95' bgl.
Pumping Depth To Water:
Pumping Rate: - Spec. Capacity: -
Volume Pumped: -

Turbidity Final: 687 NTU
↓
590 NTU

Latitude: 43.1069
Longitude: -77.5417

CDM Smith

Client: NYSDEC
Project Location: Pittsford, NY
Drilling Contractor: Parratt - Wolff
Drilling Method: Direct Push Technology (DPT)
Sample Method: Dual Spoon
Drilling Date: 6/1/2021
North:
East:

Boring Name: BS - 4 / MW - 8
Project Name: Speedys Cleaners
Project Number:
Surface Elevation (ft amsl):
Total Depth: 17.7'
Depth to Initial Water Level (ft bgs): 10.90'
Field Screening Instrument: PID
Logged by: G. Blancaniello

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			0-4	3.0/4.0	1.7 - 0.0 2.0 - 0.0 3.0 - 0.0 3.5 - 0.0		0.0 - 1.0: No Recovery 1.0 - 1.2: Dry, loose, medium to coarse gravel, gray, organic gravel surface fill, some fine to medium sand, well graded. 1.2 - 1.5: Dry, loose, light brown, poorly graded, fine to medium sand, little medium gravel. 1.5 - 2.0: Loose, dry, black, well graded fine to coarse gravel, some fine to medium sand. 2.0 - 3.0: Dry, loose, DK brown to black, poorly graded, fine to coarse sand, some f-m gravel. 3.0 - 4.0: moist, light brown, non-plastic clay. 4.0 - 5.5: No Recovery 5.5 - 6.1: Dry to moist, brown to ~~black~~ clay, little fine to medium gravel. 6.1 - 6.3: Gray, Dry, loose, well graded, subangular gravel fill, coarse material, some very fine to fine sand 6.3 - 8.0: Light brown, moist to wet, non-plastic clay.
			4-8	2.5/4.0	6.5 - 0.0 7.0 - 0.0 7.7 - 0.0		

Remarks: water table at 10' bgs.
Boring Completion Depth ft bgs 17'
same pie at highest PID hit at 10'-11' bgs.
Refusal at 17.5' bgs.

CDM Smith

Boring Name: BS-14/MW-8

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Speedys Cleaners
Project Number:

Drilling Contractor: Parratt-Wolff
Drilling Method: Direct Push Technology (DPT)
Sample Method: Split Spoon
Drilling Date: 6/1/2021
North:
East:

Surface Elevation (ft amsl):
Total Depth: 17.7'
Depth to Initial Water Level (ft bgs): 10.90'
Field Screening Instrument: PID
Logged by: E. Blanchette

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			8-12	3.8/9.0			8.0-8.3: No recovery 8.3-8.8: Dry to moist, poorly graded, brown/black, med to coarse sand, some clay.
					11.5- 18.0 11.9- 3.5		8.8-10.5: ~~moist to~~ wet, light brown, moderately plastic clay.
							10.5-11.2: moist to wet, gray, highly plastic clay.
							11.2-12.0: Black, loose, organic material (mulch, branches, roots), dry to moist, well graded clay plug from 11.9-12.0, some f-m loose sand. #0000#
			12-16	2.1/4.0			12.0-12.9: No Recovery.
							12.9-13.0: moist, sticky, gray, non plastic clay.
					13.5- 5.4 14.0- 28.0 14.1- 5.0		13.0-13.3: Black, poorly graded, moist, fine to medium sand, some clay.
							13.3-14.0: Light gray, ~~poor~~ moderately plastic, moist clay
							14.0-14.1: Light gray, dry to moist, loose, poorly graded, med to coarse sand.
							14.1-16.0: Dry to moist, lt brown to gray, non plastic clay, some ~~med to coarse~~ rounded gravel.

Remarks:

Boring Completion Depth ft bgs 17'

CDM Smith

Boring Name: BS-14 / mw-8

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Specialty Cleaners
Project Number:

Drilling Contractor: Parratt-Wolff
Drilling Method: Direct Push Technology (DPT)
Sample Method: Split Spoon
Drilling Date: 6/1/2021
North: –
East: –

Surface Elevation (ft amsl): –
Total Depth: 17'
Depth to Initial Water Level (ft bgs): 10.90'
Field Screening Instrument: PID
Logged by: E. Blancanieves

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
			16-17	1.5/2	16.5 - 0.0 17 - 0.0 17.5 - 0.0		16.0-16.3: Gray to black, moist moderately plastic clay 16.3-17.0: Dry to moist, lt brown, non plastic clay, some fine to coarse gravel. 17.0-17.5: Wet, light gray to tan Till, densely packed.

Remarks:

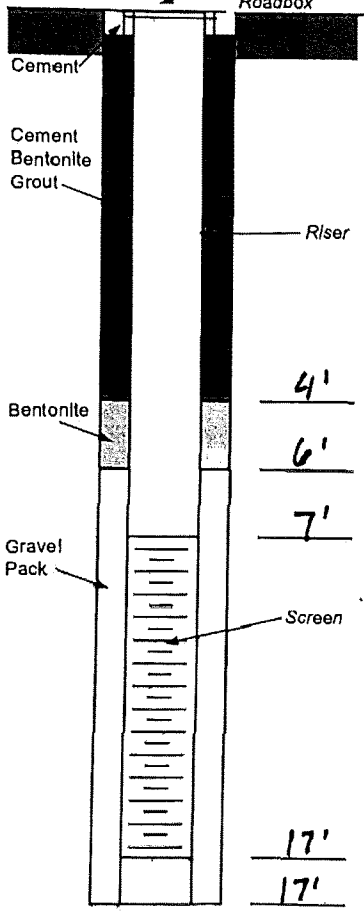
Boring Completion Depth ft bgs 17'

CDM Smith

WELL CONSTRUCTION SUMMARY

Project: Speedy Cleaners Location: Pittsford, NY Well No.: MW-8 Permit No.:

TOC elev.: Ground Surface



Type: Flushmount

DRILLING SUMMARY

Drilling Company: Parratt-Wolff Drillers:
Drill Rig/Model:
Borehole Diameters: Drilling Fluid: None
Bits/Depths:
Total Depth: 17' Depth To Water: 10.90' bgs
Supervisor Geologist: E. Blancaneaux

WELL DESIGN

Casing Material:	Sch. 40 PVC	Diameter:	2 inch
Screen Material:	PVC	Diameter:	2.8 inch OD
Slot Size:	0.010 inch	Setting:	7' to 17'
Filter Material:	No. 1 Filpro	Setting:	4' to 6'
Seals Material:	Bentonite	Setting:	1' to 6'
Grout:	Type II cement	Setting:	0' to 1'
Surface Casing Material:	Steel	Setting:	GS

TIME LOG

	Started	Completed
Drilling:	6/1/2021	6/1/2021
Installation:	6/1/2021	6/1/2021
Development:	6/2/2021	6/2/2021

WELL DEVELOPMENT

Method: Surge and pump
Static Depth to Water: 10.9' bgs
Pumping Depth To Water: 12.7' bgs
Pumping Rate: —
Volume Pumped: ~~50~~ 30 gal Spec. Capacity: —

Turbidity: 64 NTU
↓
58.8 NTU

Latitude: 43.1070
Longitude: -77.5[illegible]

2023 RI Soil Boring Logs and Well Construction Logs

CDM Smith

Page 1 of 1

Boring Name: GWS-1 / MW-9

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Speedy's Cleaners
Project Number:

Drilling Contractor: LaBella
Drilling Method: DPT 7822 DT
Sample Method: Macrocore
Drilling Date: 3/16/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 19.1
Depth to Initial Water Level (ft bgs): 5.5
Field Screening Instrument: PID
Logged by: M. Renko

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
0				0.5/5	0.0		0-0.5: Topsoil, gravel / stab-base.
							0.5-5': No Recovery.
5				4.5/5	0.0	GP	5-5.5: Black, wet, loose, rounded-angular gravel
						▽	5.5-7.5: Brown, wet, soft/loose, Fine SAND and SILT, poorly-graded, slightly cohesive, rapid dilatency.
						ML/SM	
10							7.5-10: no Recovery
				5/5	0.0	ML	10-12: light brown, moist, firm, SILT, little fine sand, trace sub-rounded gravel, non-cohesive.
						GM	12-13.5: light brown/tan, dense, dry, SILT and angular gravel >2mm,
15						TILL	13.5-15: light brown, dry, dense, TILL, SAND, SILT, large angular gravel mixture, tightly packed
							15-17: wet, loose, tan, SILTY SAND
							17-19.1: Dry, tan, dense TILL.
20							

Remarks:

Boring Completion Depth ft bgs 19.1

CDM Smith

Boring Name: ~~SB-8~~ GHS-2/MW-12

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Speedy's Cleaners
Project Number:

Drilling Contractor: LaBella
Drilling Method: DPT
Sample Method: Macrocore
Drilling Date: 3/13/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 8'
Depth to Initial Water Level (ft bgs): 6'
Field Screening Instrument: PID
Logged by: M. Rentsch

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				3/5	0.3		0-1.5: Brown, moist, soft, SILT, trace fine SAND. 1.5-3: Brown, moist, loose, fine SAND and SILT, little angular gravel. 3-5: No recovery
10						6' ▽	5-6.5: Brown, moist to wet, SILTY SAND, slightly cohesive, rapid dilatency. 6.5-8: Tan, dry, dense, TILL, tightly packed SILT, SAND and angular gravel. Refusal @ 8 ft.
15							
20							

Remarks:

Boring Completion Depth ft bgs 8'

CDM Smith

Boring Name: GWS-3 / MW-11

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Speedy's Cleaners
Project Number:

Drilling Contractor: LaBella
Drilling Method: DPT
Sample Method: Macrocore
Drilling Date: 3/13/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 13'
Depth to Initial Water Level (ft bgs): ~4'
Field Screening Instrument: PID
Logged by: M. Renko

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				4/5	0.0	ML / SM	0-1: Brown, moist, loose/soft, SILT, slightly cohesive, trace fine sand. 1-4: Light brown, wet, loose, SILT and fine SAND, cohesive. 4-5: No Recovery
10				4/5	0.0	SM	5-7: Brown, wet, loose/soft, SILT, little fine sand, slightly cohesive. 7-9: Tan, dry, loose, SILT and angular Gravel, trace fine SAND. 9-10: No recovery
15				3/3	0.0		10-11.5: Brown, wet, soft, SILT, some fine SAND, slightly cohesive 11.5-13: Brown, dry, dense, TILL, tightly packed SILT, SAND and angular gravel. Refusal @ 13 ft bgs.
20							

Remarks:

Boring Completion Depth ft bgs 13'

CDM Smith

Boring Name: GWS-4

Client: NYSDEC
Project Location: Ridgefield, NJ
Project Name: Speedy's Cleaners
Project Number:

Drilling Contractor: LABELLA
Drilling Method:
Sample Method:
Drilling Date: 3/13/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 10
Depth to Initial Water Level (ft bgs): 5'
Field Screening Instrument: PID
Logged by: M. Rambo

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				4/5	0.0		0-2: Brown, moist, soft, SILT and fine sand. 2-4: Brown, moist, loose, SILTY SAND, trace angular gravel 4-5 - No Recovery.
10				5/5	0.0	5' ▽	5-6.5: Brown, wet, loose/soft, SILT, some fine sand, trace clay, cohesive. 6.5-9: Brown, dry, dense, FILL, highly mixed, SILT, sand and angular gravel. 9-10: Brown, wet, ~~soft~~, SILT and weathered shale and angular gravel. 10' Refusal
15							
20							

Remarks:

Boring Completion Depth ft bgs 10

CDM Smith

Boring Name: GWS-5

Client: NYSDEC
Project Location: Pittsford, NY

Project Name: Speedy's Cleaners.
Project Number:

Drilling Contractor: LaBella
Drilling Method: DPT
Sample Method: Macrocore
Drilling Date: 3/13/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 9'
Depth to Initial Water Level (ft bgs): 6.5
Field Screening Instrument: PID
Logged by: M. Rinks

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				3.4/5	0.0		0-3.4': Brown, moist, soft/loose, SILT, some fine SAND, slightly cohesive.
							3.4-5: No Recovery.
				4/4	0.0	6.5 ▽	5-7: Brown, wet, dense, SILT, some fine sand.
10							7-8.5: Brown/tan, dry, dense, TILL, compacted, silt, sand and angular gravel.
							8.5-9: Brown, wet, loose, SILT and weathered shale - fissile.
15							Refusal @ 9ft bgs.
20							

Remarks:

Boring Completion Depth ft bgs 9'

CDM Smith

Boring Name: GWS - 6

Client: NYSDEC
Project Location: Pittsfield, NY

Project Name: Speedy's Cleaners
Project Number:

Drilling Contractor: LaBella
Drilling Method: DPT
Sample Method: Macrocore
Drilling Date: 3/13/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 11.1
Depth to Initial Water Level (ft bgs): ~5.0'
Field Screening Instrument: PID
Logged by: M. Renko

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				4/5	0.0		0-3: Brown, moist, stiff, silt, some fine sand 3-4: SAA, with angular gravel. 4-5: No recovery
10				5/5	0.0		▽ 5-8: Brown, wet, loose, sand-silt-gravel mixture, water-bearing zone. 8-9: Brown, wet, loose, poorly-graded fine sand, some silt.
15				1/1	0.0		9-10: Black, moist, loose, fine sand and silt, little angular gravel. 10-11.1: Brown, dry, firm/dense, TILL, sand, silt, angular gravel mixture,
20							

Remarks:

Boring Completion Depth ft bgs 11.1

CDM Smith

Boring Name: GWS-7

Client: NYSDEC

Project Location: Pittsford, NY

Project Name: Speedy's Cleaners

Project Number:

Drilling Contractor: LaBella
Drilling Method: DPT
Sample Method: Macrocore
Drilling Date: 3/13/23
North:
East:

Surface Elevation (ft amsl):
Total Depth: 10.2
Depth to Initial Water Level (ft bgs):
Field Screening Instrument: PID
Logged by: M Lunka

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
0				5/5	0.0	ML	0-2': Brown, moist, soft, SILT, non-cohesive.
5				3/5	0.0	5' ▽	2-5': Brown, moist to wet, soft, SILT and angular gravel, water-bearing near 5ft bgs.
10							5-7': Brown, moist, soft, SILT and fine sand; water-bearing.
15							7-8': Brown, dense, dry, TILL, tightly packed, SILT, ~~SAND~~ and angular GRAVEL
20							8-10: No Recovery.
							10.2 - Refusal

Remarks:

Boring Completion Depth ft bgs 10.2

CDM Smith

Boring Name: GW S- 8

Client: NYSDEC

Project Location: Pittsford, NY

Project Name: Speedy's Cleaners

Project Number:

Drilling Contractor: Cabella

Drilling Method: DPT

Sample Method: Macrocore

Drilling Date: 3/13/23

North:

East:

Surface Elevation (ft amsl):

Total Depth:

Depth to Initial Water Level (ft bgs): 6

Field Screening Instrument: PID

Logged by: M. Lamb

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				5/5	0.0		0-3: Brown, moist, soft, silt, trace fine sand. 3-5: tan, wet, soft/loose, poorly-graded fine sand, some silt.
10				5/6	0.0		5-6: SAA ▽ 6-8: Brown, wet, loose, silty SAND, trace angular gravel. 8-10: grey, wet, dense/stiff, fine SAND, some sub-angular gravel, trace silt.
15							
20							

Remarks:

Boring Completion Depth ft bgs _____

CDM Smith
listen. think. deliver.

Monitoring Well Construction Diagram

Client: NYSDEC
Site Name: Speedy's Cleaners
Project Location: Pittsford, NY
Drilling Contractor: LABELLA
Drill Rig: Geoprobe 7822 DT
Drilling Method: HSA

Well No.: MW-9
Date Started/Completed: 3/16/23 / 3/16/23
Date(s) Developed:
Geologist: M. Renko
North: East: Elevation (ft.amsl):
Total Well Depth (ft. bgs): 19.0 ft

Annular Space Details

Type of Annular Grout: Portland Cement
Type of Bentonite Seal: Bentonite Chips
Type of Sand Pack: #1 Sand (FilPro)

Well Construction Materials

	Diameter	Type of Material
Screen	2"	Sch. 40 PVC
Riser Casing	2"	Sch. 40 PVC

Measurements

Riser pipe length (ft)	9
Screen length (ft)	10
Screen slot size (in)	10-Slot
Depth to water (ft. bgs)	11.07
Depth to bedrock (ft. bgs)	n/e

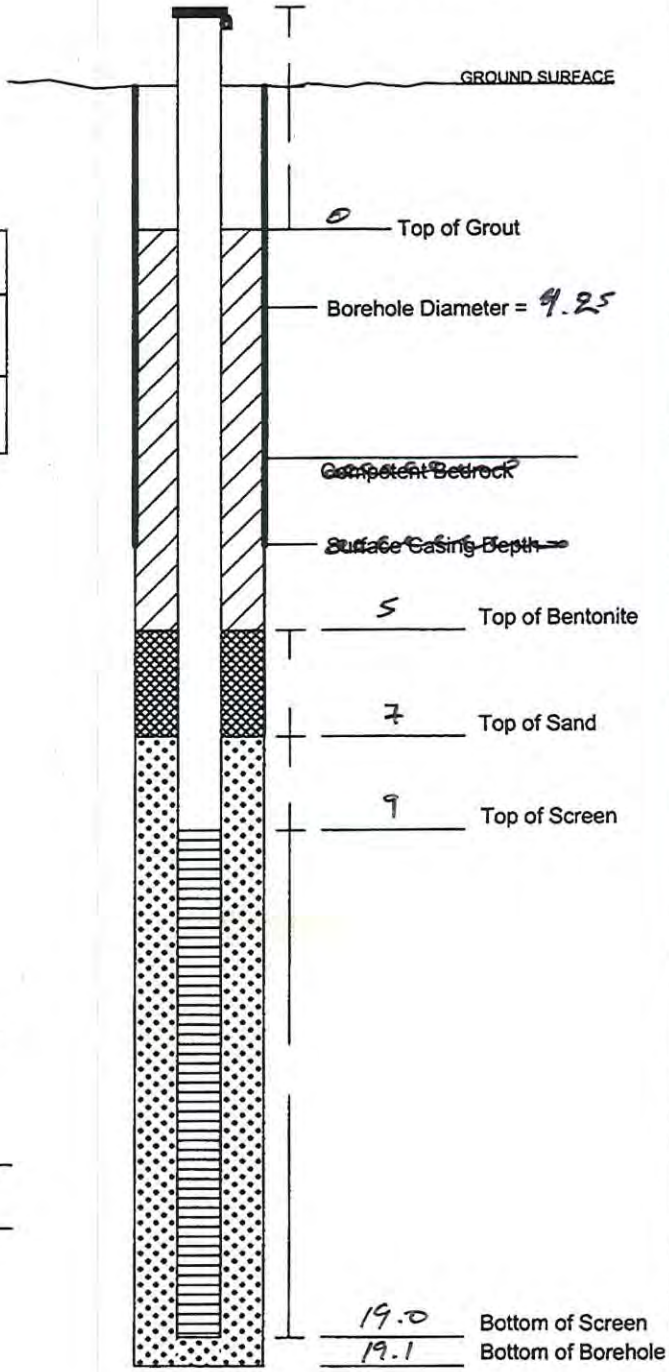
Key: Grout | Bentonite | Sand Pack

Plumbness/Alignment Testing Acceptance: _____

Reviewed by: _____

REMARKS:

DIAGRAM IS NOT TO SCALE



CDM Smith
listen. think. deliver.

Monitoring Well Construction Diagram

Client:	NYSDEC	Well No.:	MW-10
Site Name:	Speedy's Cleaners	Date Started/Completed:	3/16/23 / 3/16/23
Project Location:	Pittsford, NY	Date(s) Developed:	3/16/23
Drilling Contractor:	LaBella	Geologist:	M. Renko
Drill Rig:	Geoprobe 7822 DT	North: East:	Elevation (ft.amsl):
Drilling Method:	HSA	Total Well Depth (ft. bgs):	8 ft

Annular Space Details

Type of Annular Grout: Portland Cement Surface

Type of Bentonite Seal: Holeplug Pellets

Type of Sand Pack: F.I.Pro #1 SAND

Well Construction Materials

	Diameter	Type of Material
Screen	2"	Sch. 40 PVC
Riser Casing	2"	Sch. 40 PVC

Measurements

Riser pipe length (ft)	3
Screen length (ft)	5
Screen slot size (in)	10-slot
Depth to water (ft. bgs)	
Depth to bedrock (ft. bgs)	N/K

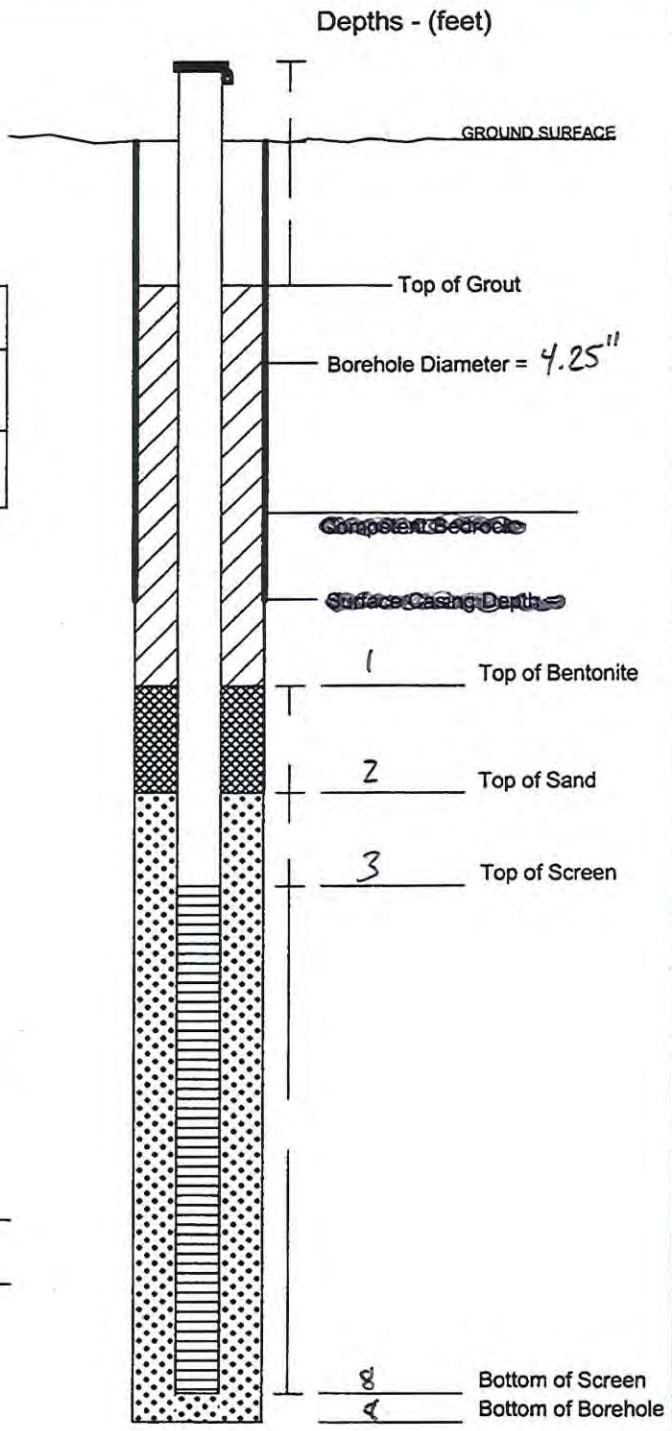
Key: Grout; Bentonite; Sand Pack

Plumbness/Alignment Testing Acceptance: _____

Reviewed by: _____

REMARKS:

DIAGRAM IS NOT TO SCALE



CDM Smith
listen. think. deliver.

Monitoring Well Construction Diagram

Client: NYSDEC
Site Name: Speedy's Cleaners
Project Location: Pittsford, NY
Drilling Contractor: LaBella
Drill Rig: Geoprobe 7822 DT
Drilling Method: HSA

Well No.: MW-11
Date Started/Completed: 3/14/23 / 3/14/23
Date(s) Developed: 3/16/23
Geologist: M. Renko
North: East: Elevation (ft.amsl):
Total Well Depth (ft. bgs): 13 ft

Annular Space Details

Type of Annular Grout: Portland Cement Surface
Type of Bentonite Seal: Hole Plug Pellets
Type of Sand Pack: FilPro #1 SAND

Well Construction Materials

	Diameter	Type of Material
Screen	2"	Sch. 40 PVC
Riser Casing	2"	Sch. 40 PVC

Measurements

Riser pipe length (ft)	3
Screen length (ft)	10
Screen slot size (in)	10-slot
Depth to water (ft. bgs)	
Depth to bedrock (ft. bgs)	u/k

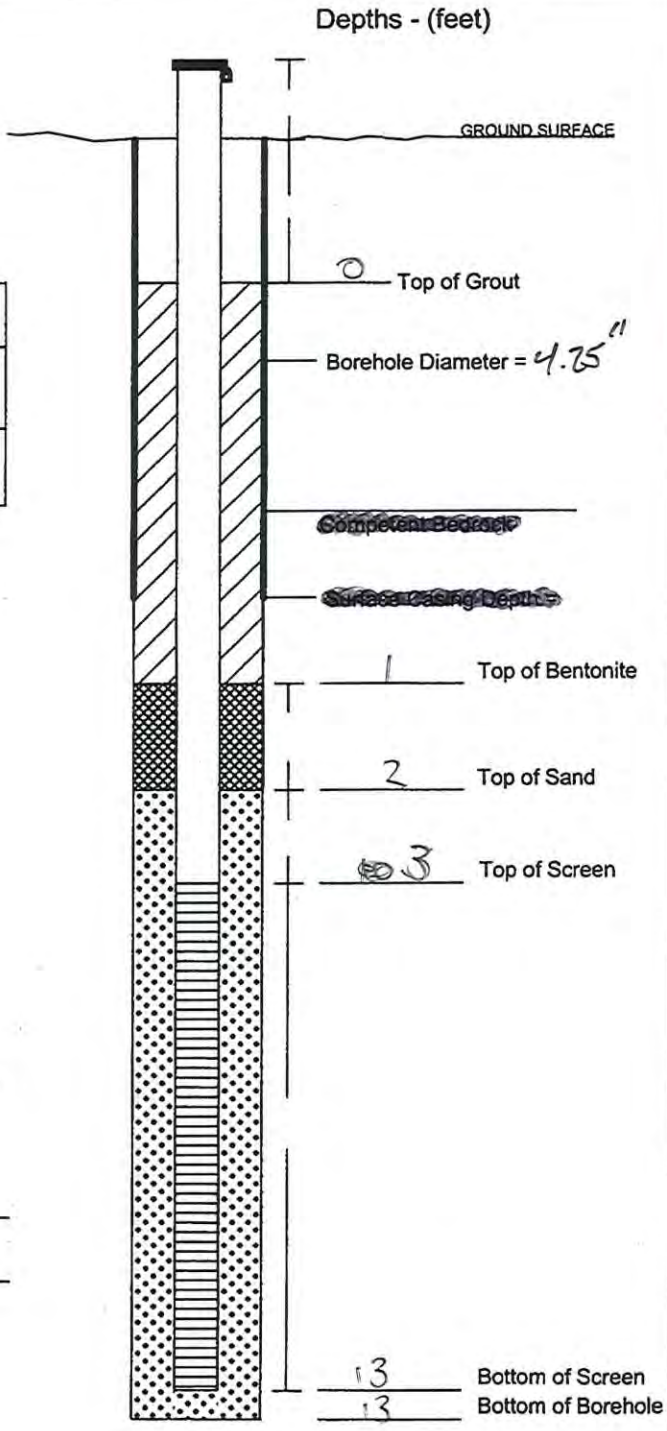
Key: Grout Bentonite Sand Pack

Plumbness/Alignment Testing Acceptance: _____

Reviewed by: _____

REMARKS:

DIAGRAM IS NOT TO SCALE



Historical Soil Boring Logs (NYSDEC 2003)

TEST BORING LOG

Project: NYSDEC - PSA-6	Boring/Well No.: BS/BW-002 MW-2	Project No.: 53499	
Client: NYSDEC	Site: SPEEDYS	Sheet No.: 1 of 1	
Logged By: C. STAPLES	Ground Elevation:	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): SBOB ium	Casing Size: 2" / Auger Size: —
Soil Drilled: 14'	Rock Drilled: —	Total Depth: 14'	Depth to Groundwater/Date: 7.5' 9/25/02

Piez ☐ Well ☒ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space		Lab Tests
1	S1 0-4' 1.0/4.0			-		Brown sand + asphalt - fill refusal on cement @ 4' bgs - move 6"	SW		0.0			
5	S2 0-4' 2.5/4.0					0-1.0 Reddish brown to gray M to C. SAND, trace gravel, trace bricks, well graded, loose, dry to 1.5, grades to more silt 1.0-2.5 Dark brown grades to reddish brown silty fine SAND, trace gravel, slight plasticity, moist	SW SM		0.0			
9	S3 8-12' 4.0/4.0					0-0.5 Brown F. SANDY SILT, little gravel, bits brick, slight plasticity, moist - saturated 0.5-4.0 Olive gray V. Fine SAND and SILT, some gravel, trace cobble - dense, massive well graded, dry - Till	SM SM GM - Till	-9' collect SPBS002009DUP @ 1150	0.0			
13	S4 12-14' 2.0/2.0					Olive gray F. SAND, and S. gravel some silt, well graded, massive dense - till	SM GM					
17												

Refusal in Till @ 14' BGS

MICRO.

MW-2

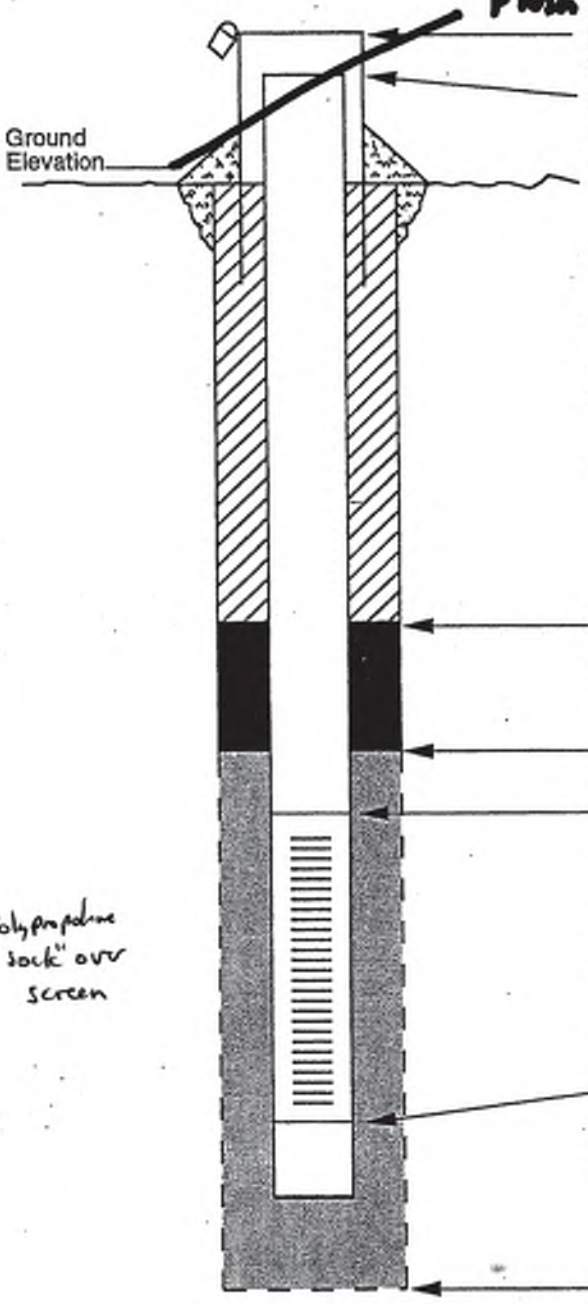
OVERBURDEN **WELL CONSTRUCTION DIAGRAM**

Project: NYSDEC PSA-6 Site Area: SPEEDYS Driller: J. Powell - Geologic

Project No.: 53499 Boring No.: BS002-MW-2 Drilling Method: Direct Push

Date Installed: 9/25/02 Development Method: geopump pump to attain conductivity

Field Geologist: C. STAPLES



Elevation of Top of Surface Casing: 440.47

Stick-up of Casing Above Ground Surface: Flush Mount

Elevation of Top of Riser Pipe: 440.23

Type of Surface Seal: Cement

Type of Surface Casing: plastic

ID of Surface Casing: 4"

Diameter of Borehole: 2"

Riser Pipe ID: 1" PVC

Type of Riser Pipe: PVC

Type of Backfill: Native Material

Elevation of Top of Seal: 439.5

Depth of Top of Seal: 1'

Type of Seal: Bentonite pellets

Elevation of Top of Sand: 437.5

Depth of Top of Sand: 3.0

Elevation of Top of Screen: 436.6

Depth of Top of Screen: 3.9

Type of Screen: PVC

Slot Size x Length: 0.02 X10'

ID of Screen: 1"

Type of Sandpack: #0

Elevation of Bottom of Screen: 426.6

Depth of Bottom of Screen: 13.9

Depth of Sediment Sump with Plug: 13.9

Elevation of Bottom of Borehole: 426.5

Depth of Bottom of Borehole: 14

Harding Lawson Associates

TEST BORING LOG

Project: NYSDEC-PSA-6		Boring/Well No.: SB/SW-003	Project No.: 53499
Client: NYSDEC	Site: SPEEDYS		Sheet No.: 1 of 1
Logged By: C. STAPLES	Ground Elevation:	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name:		Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): SB0B-OVM	Casing Size: 2" / Auger Size:
Soil Drilled: 16'	Rock Drilled: -	Total Depth: 16'	Depth to Groundwater/Date: 11' BGS 9/25/02

Piez ☐ Well ☐ Boring ☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space		Lab Tests
1	S1 0-4' 3.2/4.0					0-1' Dark Brown F-M SAND, little gravel, well-graded, dry	SW		0.0	-		
2						1.0-3.2 Light Brown Very Fine SAND little modeling - massive, damp	SW					
3												
4												
5	S2 4-8' 2.0/4.0					0-3.0 light brown very fine SAND, little layering, trace modeling - moist - moist - slight odor - solvent?	SW/SM		0.0	0.0		
6												
7												
8												
9	S3 8-12' 3.0/4.0					0-2.2 olive brown silty fine SAND, little modeling - brown, black, slight plasticity in sections - moist	SM		40	21		
10								- collect SPBS0030802FX @ 1400				
11						2.2-3.0 Dark brown v. Fine SAND, organic layer on top- trace gravel - solvent odor	SM		89	19		
12								- collect SPBS0030802FX @ 1410				
13	S4 12-16' 3.1/4.0					Grayish brown fine sandy silt, little gravel, little plasticity, grades to brown v. fine SAND, some gravel, little silt, till Moist	SM/ML/TILL		62			
14												
15												
16												

BOB @ 16' bgs

TEST BORING LOG

Project: NYSDEC PSA-6	Boring/Well No.: BS-001 MW-1	Project No.: 53499	
Client: NYSDEC	Site: SPEEDY J	Sheet No.: 1 of 2	
Logged By: C. STARLES	Ground Elevation:	Start Date: 7/25/02	Finish Date: 7/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 5800 ppm	Casing Size: 2" / Auger Size: -
Soil Drilled: 19'	Rock Drilled: -	Total Depth: 19'	Depth to Groundwater/Date: 13.6' @ 5/25/02 — Piez ☐ Well ☒ Boring ☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space		Lab Tests
1	S1 0-4' 3.0/4.0					0-1' Black & Brown Med. SAND - trace gravel well graded, dry	SW		0.0			
2						1.0-2.1 Tan Fine SAND, well graded, dry	SW					
3						2.1-4.0 Tan to gray very fine SAND, little silt, well graded, dry	SW/SM					
4												
5	S2 4-8' 4.0/4.0					0-3.8 Reddish Brown very fine SAND, little silt, slight layering, well graded, Damp	SW		0.0			
6												
7						3.8-4.0 Grayish Brown very fine SAND and SILT, slight plasticity Moist, trace organics	SM	- collect sample SP BS001007 02 Ft @ 0850		- not analyzed		
8												
9	S3 8-12' 4.0/4.0					0-0.8 Reddish brown very fine SAND, little silt, slight layering, damp						
10						0.8-1.5 Blackish brown Med SAND, some silt, little gravel, bits brick & coal	Fill					
11						1.5-3.5 Olive brown V. Fine SAND, some SILT, little organic fibers, Moist		collect	SP BS001011 02 Ft @ 0905			
12						3.5-4.0 - Grayish brown V. Fine SAND little organics, Moist - Petroleum odor			17	57		
13												
14	Next page											
15												
16												

TEST BORING LOG

Project: NYSDEC - PSA-6	Boring/Well No.: BS/BW 001, MW-1	Project No.: 53499	
Client: NYSDEC	Site: SPEEDYS CLEANERS	Sheet No. 2 of 2	
Logged By: C. STAPLES	Ground Elevation:	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 580B-OVM	Casing Size: 2" / Auger Size: -
Soil Drilled: 19'	Rock Drilled: -	Total Depth: 20'	Depth to Groundwater/Date: 13.6' bgs 9/25/02

Piez ☐ Well ☒ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space		Lab Tests
12	S4 12-16' 4.0/4.0					0-1.0 Reddish brown very fine SAND and silt, slight plasticity - Moist 1.0-2.5 Reddish brown m. SAND and cobble, well graded, dry. 2.5-4.0 Reddish brown fine SAND, little silt, little gravel, well graded, Massive	SW/SM SW/SM		0.0			
16	S5 16-19' 4.0/3.0					0-1.0 Reddish brown fine sandy SILT, trace gravel, slight plasticity, little fine silty gravel lenses - Moist 1.0-4.0 Brown fine sandy gravel, little silt - Well graded, Moist w/one saturated zone	SM GM		0.0			
20						Refusal @ 19' bgs						

9910003(e) L 33

Harding Lawson Associates

MICRO.

MW-1

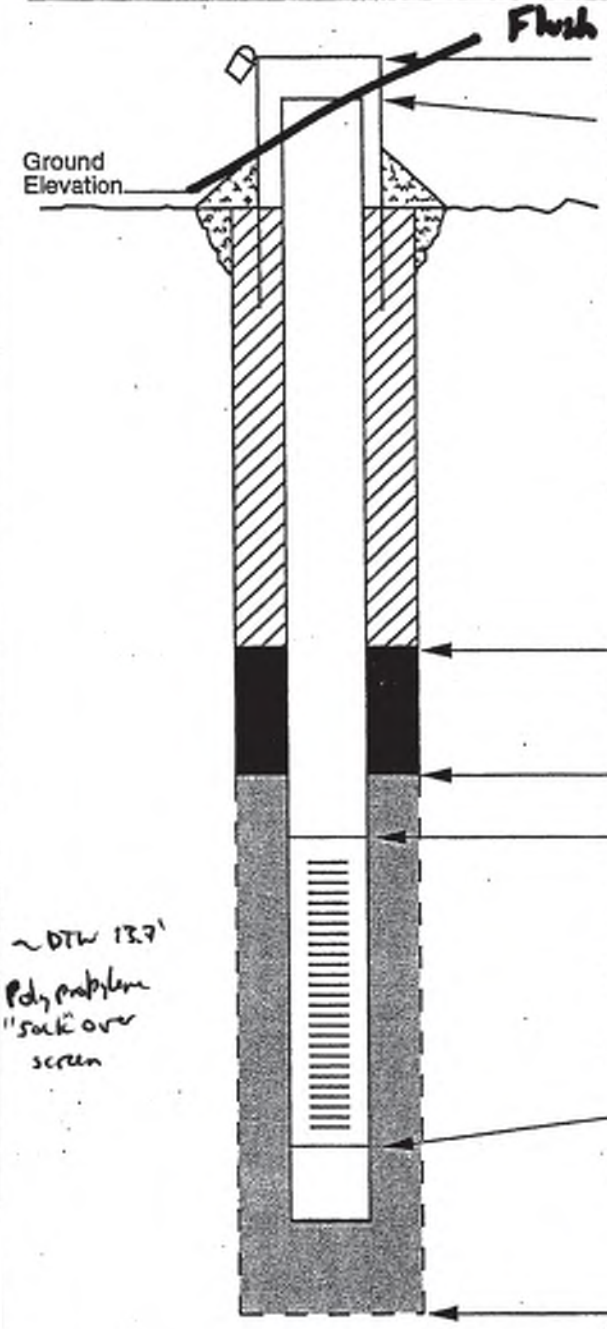
OVERBURDEN **WELL CONSTRUCTION DIAGRAM**

Project: NYSDEC - PSA-6 Site Area: SPEEDYS Driller: J. Powell

Project No.: 53499 Boring No.: 53499-2 BS/OW-01 MW-1 Drilling Method: Geoprobe

Date Installed: 9/25/02 Development Method: 9 casing purges to ensure conductivity

Field Geologist: C. STAPLES



Elevation of Top of Surface Casing:	441.07
Stick-up of Casing Above Ground Surface:	Flush Mount
Elevation of Top of Riser Pipe:	440.92
Type of Surface Seal:	cement
Type of Surface Casing:	Plastic
ID of Surface Casing:	4"
Diameter of Borehole:	2"
Riser Pipe ID:	1"
Type of Riser Pipe:	PVC
Type of Backfill:	Native Material
Elevation of Top of Seal:	440.1
Depth of Top of Seal:	1.0
Type of Seal:	Bentonite Powder
Elevation of Top of Sand:	~~4.0~~ 447.1
Depth of Top of Sand:	4.0'
Elevation of Top of Screen:	432.2
Depth of Top of Screen:	8.9
Type of Screen:	PVC
Slot Size x Length:	0.02 x 10'
ID of Screen:	2"
Type of Sandpack:	#0
Elevation of Bottom of Screen:	422.2
Depth of Bottom of Screen:	18.9
Depth of Sediment Sump with Plug:	19.0
Elevation of Bottom of Borehole:	432.1
Depth of Bottom of Borehole:	19.0

Harding Lawson Associates

TEST BORING LOG

Project: NYSDEC - PSA-6		Boring/Well No.: BS/RW-004	Project No.: 53499.2
Client: NYSDEC	Site: SPEEDYS		Sheet No. 1 of 1
Logged By: C. STAPLES	Ground Elevation:	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell		Rig Type: Geoprobe
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 5000 ppm	Casing Size: 2"	Auger Size:
Soil Drilled: 12	Rock Drilled: -	Total Depth: 12	Depth to Groundwater/Date: 13.2' bgs 9/25/02	Piez ☐ Well ☐ Boring ☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space		Lab Tests
1	S1 0-4 2.8/4.0					0-2' Black grades to brown MFC SAND, some gravel, well graded, dry.	SW					
2						2.0-2.8 Brown V. Fine SAND, some silt, trace modeling, damp, soft,	SM/SW					
3												
4												
5	S2 4-8 3.0/4.0					0-3.0 light brown V Fine SAND, little silt, little modeling (dark brown) moist, soft, massive	SW					
6												
7												
8								CR1 9/27/02				
9	S3 8-12' 2.1/4.0					0-2.1 Light brown Fine ~~Silty SAND~~ Sandy SILT grades to silty fine SAND, trace gravel (more like till) Moist - little block modeling	SM	collect sample SPBS004010002FA @ 1530	11	NA		
10												
11												
12												
						BOD @ 12' BGS						

Water @ 13.2' BGS (from screened auger

TEST BORING LOG

Project: NYSDEC PSA-6	Boring/Well No.: BS/BW-005	Project No.: 53499	
Client: NYSDEC	Site: SPEEDYS	Sheet No.: 1 of 1	
Logged By: C. STARES	Ground Elevation:	Start Date: 9/25/02	Finish Date: 9/25/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 580B OVM	Casing Size: 2" / Auger Size: -
Soil Drilled: 16	Rock Drilled: -	Total Depth: 16	Depth to Groundwater/Date: 11.3' BGS 7/25/02 — Piez ☐ Well ☐ Boring ☒

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	Monitoring (ppm): PI Meter Head Space	Monitoring (ppm):	Lab Tests
1–4	S1 0-4' 3.0/4.0					0-1.5 Black MOC SAND grades to light brown MOC SAND, well graded, dry. 1.5-3.0 light brown V. fine SAND, some silt, stratified Dense	SM		0.0	-		
5–8	S2 4-8' 3.0/4.0					0-3.0 Light brown V. fine SAND, some silt, slight stratification slight brown modeling, moist, saturated @ 3.0	SM		0.0	-		
9–12	S3 8-12' 3.1/4.0					0-2.0 Same as S2	SM		0.0			
						2.0-2.4 Gray ~~silty fine SAND~~ CRS fine sand SILT, moist, little plasticity						
						2.4-2.6 Black organic peat	PT		0.0			
11.3'						2.6-3.1 gray silty fine SAND, slight plasticity, trace organics, - strong chlorinated odor	SM	- collect SP BS005011102FX	94 ppm		@ 1645	
13–16	S4 12-16' 2.5/4.0					0-1.0 gray silty fine SAND slight plasticity, little modeling - strong odor	SM		65			
						1.0-2.5 Brown silty fine SAND, little gravel, grades to olive green silty fine SAND, some gravel. dense till	SM / TILL	- 25 ppm - 4 in tip	little to No odor			

Dry at 16' - drill to 16.5 - water rises to 11.3' bgs

BOB @ 16' BGS

9910003(e) L 33

Harding Lawson Associates

TEST BORING LOG

Project: NYSDEC- PSA-6	Boring/Well No.: BS/BW006 MW-4	Project No.: 53499-2	
Client: NYSDEC	Site: SPEEDYS	Sheet No.: 1 of 1	
Logged By: C. STAPLES	Ground Elevation: -	Start Date: 9/26/02	Finish Date: 9/26/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 5008 -OVM	Casing Size: 2" / Auger Size:
Soil Drilled: 8.5'	Rock Drilled: -	Total Depth: 8.5'	Depth to Groundwater/Date: 9/26/02 - 3.0' bgs

Piez ☐ Well ☒ Boring ☐

Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space		Lab Tests
1	S1 0-4' 3.5/4.0					0-0.5 sandy organic topsoil 0.5-2.5 light brown silty fine SAND, loose slight stratification, dry 2.5-3.5 Dark reddish brown fine SAND and SILT, little gravel, trace cobble- till-like but med dense	SM		0.0			
2												
3												
4												
5	S2 4-8' 3.0/4.0					0-1.5 Reddish brown fine SANDY SILT, little to some gravel, trace organics, slight plasticity, Moist, 1.5-10 Olive brown fine SAND, some silt, little gravel- till, Moist, well graded - tip has more angular rock- saturated	SM SM	collect SPBS006 00702FX @ 0800	0.0 11			
6												
7												
8												
9	S3 8-8.5 0.5/0.5					- Olive gray fine sandy silt and angular rock - dry - well graded	Till					
10						BOB @ 8.5' BGS						
11												
12												

▽ 3'

Harding Lawson Associates

MICRO.

MW-4

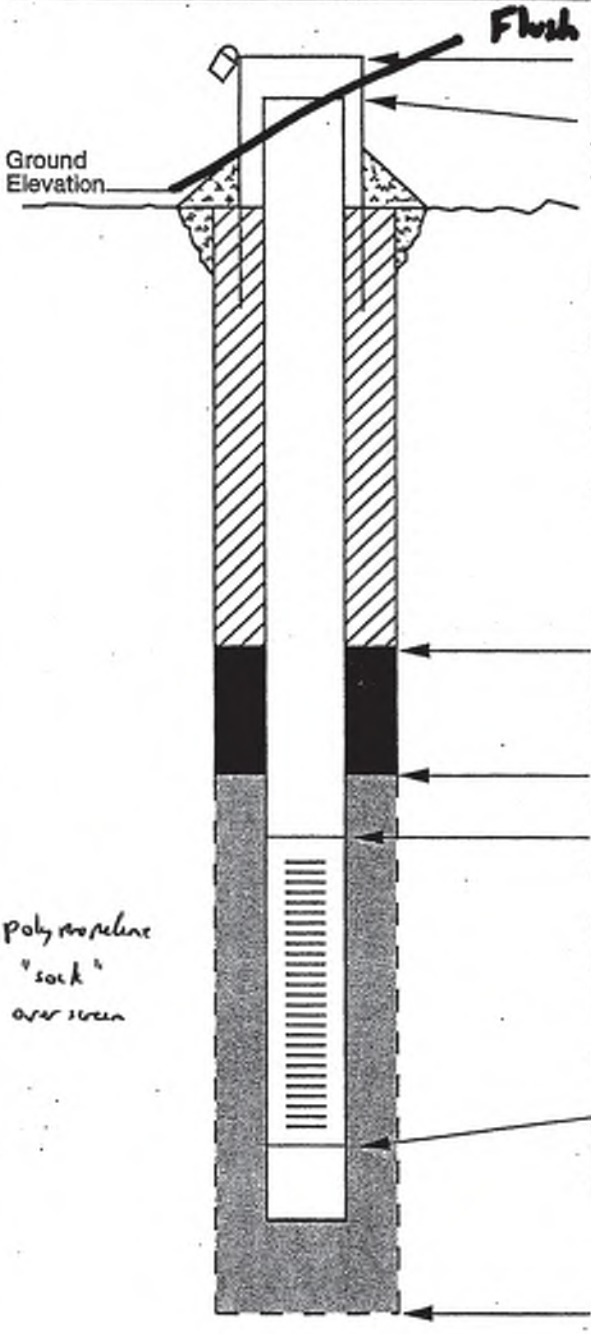
OVERBURDEN **WELL CONSTRUCTION DIAGRAM**

Project: NYSDEC - PSA-6 Site Area: SPEEDWAY Driller: J. Powell - Geologic, NY

Project No.: 53499-2 Boring No.: SS-006 MW-4 Drilling Method: Direct Push

Date Installed: 9/26/02 Development Method: Geopump purge for conductivity

Field Geologist: C. STAPLES



Elevation of Top of Surface Casing:	430.1
Stick-up of Casing Above Ground Surface:	Flush Mount
Elevation of Top of Riser Pipe:	429.87
Type of Surface Seal:	cement
Type of Surface Casing:	Plastic
ID of Surface Casing:	4"
Diameter of Borehole:	2"
Riser Pipe ID:	1"
Type of Riser Pipe:	PVC
Type of Backfill:	Native material
Elevation of Top of Seal:	429.1
Depth of Top of Seal:	1.0
Type of Seal:	Bentonite
Elevation of Top of Sand:	428.6
Depth of Top of Sand:	1.5
Elevation of Top of Screen:	427.7
Depth of Top of Screen:	2.4
Type of Screen:	PVC
Slot Size x Length:	0.02 x 6'
ID of Screen:	1"
Type of Sandpack:	#0
Elevation of Bottom of Screen:	421.7
Depth of Bottom of Screen:	8.4
Depth of Sediment Sump with Plug:	8.5
Elevation of Bottom of Borehole:	421.6
Depth of Bottom of Borehole:	8.5

TEST BORING LOG

Project: NYSDEC. PSA-6	Boring/Well No.: BS/MW-007 MW-3	Project No.: 53499-2	
Client: NYSDEC	Site: SPEEDYS	Sheet No. 1 of 1	
Logged By: C. STAPLES	Ground Elevation: -	Start Date: 7/26/02	Finish Date: 9/26/02
Drilling Contractor: Geologx, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 5800 ppm	Casing Size: 2" / Auger Size: -
Soil Drilled: 19 ft	Rock Drilled: -	Total Depth: 19'	Depth to Groundwater/Date: Piez ☐ Well ☒ Boring ☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm): PI Meter Field Scan	PI Meter Head Space		Lab Tests
1–4	S1 0-4' 2.5/4.0					0-1.0 F-M Brown SAND, trace gravel, dry 1.0-1.5 Black M-C SAND, trace gravel, dry 1.5-2.0 Brown M. SAND, little gravel, trace cobble, loose, dry 2.0-2.5 Olive gray silty gravel, Dry	SW GM		75 25 10			
5–8	S2 4-8' 2.7/4.0					0-0.6 Olive gray silty gravel, dry 0.6-2.7 Brown fine sandy SILT and silty fine SAND, well graded, little sections of plasticity, little mottling	GM SP SM	BS007006027 @ 1625	11	- odor in MW/MD		
9–12	S3 8-12' 2.3/4.0					0-1.2 Reddish brown grades to olive brown silty fine SAND, little stratification - moist to saturated - fine sand lenses possible 1.2-1.4 Olive brown with black lenses, saturated 1.4-2.3 Dark brown grades to brown fine clayey SANDY SILT. - strong odor Moist	SM SP SM	75 BS007011027 @ 1630 275		- odor in MW/MD		
13–16	S4 12-16 2.5/4.0					0-1.6 Brown silty fine SAND, little gravel, well graded, M. dense Moist 1.6-2.5 Olive brown grades to greenish gray SILT + SAND, little gravel Moist, dense	SM SM	80 375 25				
17–19	S5 16-19 ?					Refusal @ 19' - sleeve stuck in tube - brown gravely silt						

178 V

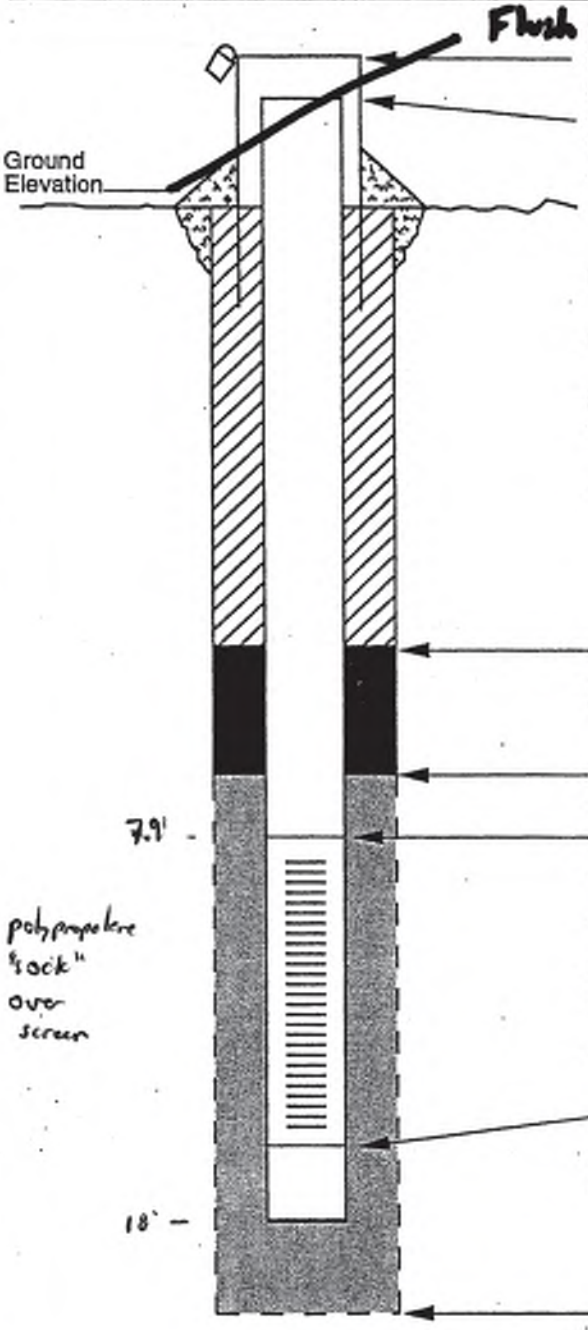
Harding Lawson Associates

MICRO.

MW-3

OVERBURDEN **WELL CONSTRUCTION DIAGRAM**

Project: NYSDEC-PIAG
Site Area: SPEEDYS
Driller: J. Powell, Geologic
Project No.: 53499-2
Boring No.: BS/SW-007 MW-3
Drilling Method: Direct Push
Date Installed: 9/26/02
Development Method: 90 gpm over pump
Field Geologist: C. STAPLES



Elevation of Top of Surface Casing:	440.4
Stick-up of Casing Above Ground Surface:	Flush Mount
Elevation of Top of Riser Pipe:	440.27
Type of Surface Seal:	Cement
Type of Surface Casing:	Plastic
ID of Surface Casing:	4"
Diameter of Borehole:	2"
Riser Pipe ID:	1"
Type of Riser Pipe:	PVC
Type of Backfill:	native (gravel)
Elevation of Top of Seal:	438.4
Depth of Top of Seal:	2.0
Type of Seal:	bentonite
Elevation of Top of Sand:	436.4
Depth of Top of Sand:	4.0'
Elevation of Top of Screen:	432.5
Depth of Top of Screen:	7.9
Type of Screen:	PVC
Slot Size x Length:	0.02" x 10'
ID of Screen:	1"
Type of Sandpack:	#0
Elevation of Bottom of Screen:	422.5
Depth of Bottom of Screen:	17.9
Depth of Sediment Sump with Plug:	18.0
Elevation of Bottom of Borehole:	422.4
Depth of Bottom of Borehole:	18.0

Harding Lawson Associates

TEST BORING LOG

Project: NYSDEC - PSA-6	Boring/Well No.: BS/BW 008	Project No.: 53499	
Client: NYS DEC	Site: SPEEDYS	Sheet No.: 1 of 1	
Logged By: C. STAPLES	Ground Elevation:	Start Date: 9/27/02	Finish Date: 9/27/02
Drilling Contractor: Geologic, NY	Driller's Name: J. Powell	Rig Type: Geoprobe	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 5008 ovm 11.8 b-lo	Casing Size: 2" / Auger Size:
Soil Drilled: 16'	Rock Drilled: -	Total Depth: 16'	Depth to Groundwater/Date: 12.5' 9/27/02

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space		Lab Tests
0	S1					0-1' Gray Asphalt to SBM						
1	0-4					SAND, little gravel, Moist	SW		26	-		
2	3.0/4.0					1.0-3.0 Brown F. SAND grades to olive brown						
3						silty fine SAND, slight layering, Damp.	SM					
4								- refusal @ 6' - move boring 2'				
5	S2					0-0.6 Black dark brown fine						
	4-8'					sandy SILT, moist, mod plasticity.	SM		5			
6	2.2/4.0					0.6-1.2 Olive brown and gray						
7						silty fine SAND, bits brick,	SM					
8						slight weathered petroleum odor.						
						1.2-2.2 Olive F. SAND, some	SM		5			
9	S3					silt, trace gravel, moist						
	8-12'					0-0.2 same as 1.2-2.2						
10	2.5/4.0					0.2-0.8 Black fine silty SAND	SM					
						trace organics, Moist		collect	SP8S008011 0228 @ 0815			
11						0.8-2.5 Olive brown SAND,			280			
12						trace-little gravel, little brown	SW					
						mottling - fuel odor						
13	S4					0-2.2 Olive brown to brown						
	12-16'					silty fine sand, little gravel,	SM		32		No odor	
14	3.0/4.0					well graded, moderate moist			8			
15						2.2-3.0 Olive gray fine SAND,	SM		6			
16						some silt, little gravel, very dense			3			
						- till						

BOB @ 16' bgs - dry

- drive screened auger to 16.5 - refusal - water to 12.5

Harding Lawson Associates

TEST BORING LOG

Project	Boring/~~Well No.~~	Project No.
NYSDEC - PJA-1	BS/BW-009	53499-2

Client	Site	Sheet No.
NYSDEC	SPEEDYS	1 of 1

Logged By	Ground Elevation	Start Date	Finish Date
C. STAPLES	-	9/27/02	9/27/02

Drilling Contractor	Driller's Name	Rig Type
Geologic, NY	J. Powell	Geoprobe

Drilling Method	Protection Level	P.I.D. (eV)	Casing Size	Auger Size
Direct Push	D	580 B-out	2"	

Soil Drilled	Rock Drilled	Total Depth	Depth to Groundwater/Date	Piez	Well	Boring
16'		16	14' 9/27/02	☐	☐	☐

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Monitoring (ppm)	Lab Tests
0	S1					0-1.0 Black brown F-M SAND little gravel. Damp						
1	0-4'					1.0-1.6 Brown F-M SAND to Brown F. SAND, little fine.			1100			
2	2.6/4.0					1.5-2.0 - F SAND + gravel, moist						
3						2.0-2.6 Redish brown to brown silty fine SAND, slight stratification - 1 .5" black lense.		Collect SPBS009003022FA @ 0850	900			
4												
5	S2					0-1.5 Redish brown f. Sandy SILT, little modeling, Moist	SM		1400			
6	4-8'					1.5-3.0 Brown silty fine SAND, trace gravel, trace brick, little black bitt.	SM	Collect SPBS009006022FA @ 0905				
7	5.0/4.0						Fill		600			
8												
9	S3					0-1.2 Olive brown F. Sandy silt + silty fine SAND, little red modeling + bits stratified, some plasticity in sections Moist.	SM					
10	8-12'					1.2-1.4 Black silty F. SAND, moist	SP/SM	Collect		SPBS009011022FA @ 0930		
11	2.2/4.0					1.4-2.2 Grayish brown silty fine SAND, trace gravel			1800	odor		
12							SM					
13	S4					0-2.0 black and brown			390			
14	12-16' 3.0/4.0					grades to brown silty fine SAND, trace stratification, trace gravel, strong fuel odor	SM		210			
15						2.0-3.0 Olive green silty fine SAND, little gravel, Moist, dense TILL	SM		60			
16												

↓ will only analyze one soil

Harding Lawson Associates

9910003(e) L 33

BOB @ 16' bgs

Appendix C
Field Notes

- *2021 RI Soil Sampling, Well Installation, and Groundwater Sampling Logbook*
- *2021 RI Soil and Groundwater Sampling Chains-of-Custody*
- *2023 RI Groundwater Screening, Well Installation, and Groundwater Sampling Logbook*
- *2023 RI Groundwater Sampling Chains-of-Custody*

2021 RI Soil Sampling, Well Installation, and Groundwater Sampling Logbook

CONTENTS

PAGE	REFERENCE	DATE

Location 3130 MONROE AVE Date 6/1/21

Project / Client SPEEDY'S CLEANERS NYSDEC

WEATHER: CLOUDY, 70'S

OBJECTIVE: ADVANCE AND SAMPLE SOIL SOIL BORINGS AT FOUR(4) PROPOSED LOCATIONS VIA DPT DRILLING AND SUBSEQUENTLY INSTALL FOUR(4) MONITORING WELLS.

PERSONNEL: LDM SMITH:
- S. MARCIANO
- E. BIANCANIELLO

PARRATT-WOLFF:
- IAN GRASSIE
- COREY BROWN

PPE: MODIFIED LEVEL D

1000 ALL PARTIES ONSITE
SIGN N.Y.S.D.E.C COVID ENTRY LOG
TOOLBOX TALK

1015 MOBILIZE TO BS-13/MW-7
COMMENCE DPT DRILLING

1215 SAMPLE 824109-BS-13-10-12-060121 COLLECTED AT HIGH PID READING FOR VOCs AND 1,4-DIOXANE

1300 SOIL BORING COMPLETE. MATERIAL DESCRIPTION FOLLOWS:

6/1/21 (Rain on the Rainier)

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/1/21

Project / Client SPEEDY'S CLEANERS NYSDEC

00-1.0	DRY, LOOSE, DK GRAY TO BLACK ASPHALT FILL
1.0-1.4	MOIST, DENSELY PACKED POORLY GRADED BLACK F/M SAND, LITTLE M/C GRAVEL
1.4-2.6	DRY, LOOSE, WELL GRADED, LT GRAY TO BLACK, F/C GRAVEL, SOME BRN, POORLY GRADED F/M SAND
2.6-4.0	MOIST, BRN, NON-PLASTIC CLAY
4.0-6.0	NO RECOVERY
6.0-8.0	MOIST, BRN, MODERATELY PLASTIC CLAY
8.0-9.0	NO RECOVERY
9.0-9.4	MOIST DK BRN, NON-PLASTIC CLAY, SOME M/C SAND, LITTLE F/M GRAVEL
9.4-10.0	MOIST TO WET, DENSELY PACKED F/C BLACK SAND, SOME NON-PLASTIC CLAY
10.0-10.5	WET, DENSLY PACKED BRN/GRAY MODERATELY PLASTIC CLAY
10.5-12.0	WET, DENSELY PACKED DK GRAY PLASTIC CLY
12.0-13.3	NO RECOVERY
13.3-14.0	MOIST TO WET DENSELY PACKED GRAY TO BRN SLIGHTLY PLASTIC CLAY
14.0-16.0	LOOSE, WET, GRAY TO TAN WELL GRADED TILL ~~SUBGRANULAR~~ SUBANGULAR, RED CLAY STREAK

6/1/21

Location 3130 MONROE AVE Date 6/1/21

Project / Client SPEEDY'S CLEANERS NYSDEC

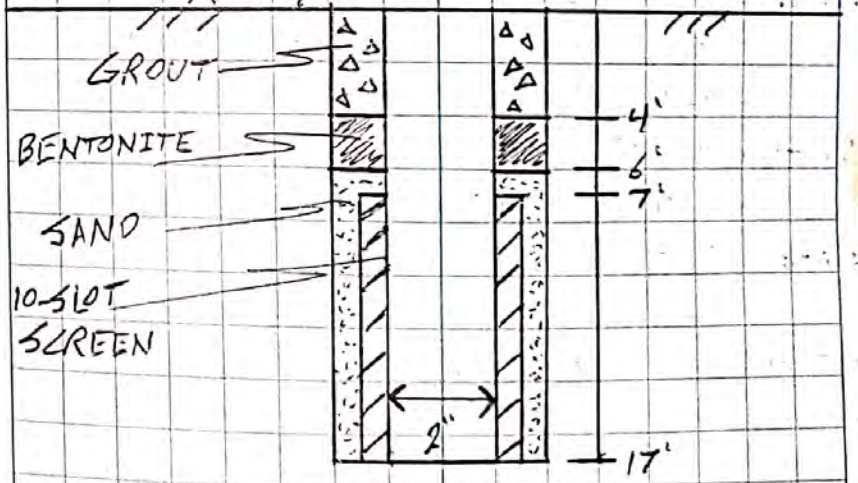
16.0-16.5	MOIST TO WET, GRAY NON-PLASTIC CLAY, LITTLE F/M GRAVEL
16.5-17.2	DRY TO MOIST, BRN/GRAY DENSELY PACKED SAND F/M, SOME F/C WELL GRADED GRAVEL, SOME CLAY
17.2	REFUSAL

1315 COMMENCE MW-7 INSTALLATION

1400 COMPLETE MW-7 INSTALLATION

WELL CONSTRUCTION FOLLOWS:

MW-7



1410 MOBILIE TO BS-14/MW-8

COMMENCE DPT DRILLING

DECON AUGERS WHILE DPT SAMPLING

1540 SAMPLE 628109-BS-14-10-11-060121 COLLECTED AT HIGH PID READING FOR VOCs AND 1,4-DIOXANE.

6/1/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/1/21

Project / Client SPEEDY'S CLEANERS NYSDEC

1600 SOIL BORING COMPLETE. MATERIAL DESCRIPTION FOLLOWS:

0.0-1.0 NO RECOVERY

1.0-1.2 DRY, LOOSE, M/C GRAVEL GRAY, ORGANIC FILL, SOME F/M SAND, WELL GRADED

1.2-1.5 DRY, LOOSE, LT BRN POORLY GRADED F/M SAND, LITTLE MED GRAVEL

1.5-2.0 LOOSE, DRY, BLACK WELL GRADED F/C GRAVEL, SOME F/M SAND

2.0-3.0 ~~MOIST, LT BRN~~ DRY, LOOSE, DK BRN TO BLACK POORLY GRADED F/C SAND, SOME F/M GRAVEL

3.0-4.0 MOIST, LT BRN, NON-PLASTIC CLAY

4.0-5.5 NO RECOVERY

5.5-6.1 DRY TO MOIST, BRN CLAY, LITTLE F/M GRAVEL

6.1-6.3 GRAY, DRY, LOOSE, WELL-GRADED, SUBANGULAR GRAVEL FILL, COARSE MATERIAL, SOME V. FINE/FINE SAND

6.3-8.0 LT BRN, MOIST TO WET, NON-PLASTIC CLAY

8.0-8.3 NO RECOVERY

8.3-8.8 DRY TO MOIST, POORLY GRADED, BRN/BLACK M/C SAND, SOME CLAY

6/1/21

Location 3130 MONROE AVE Date 6/1/21

Project / Client SPEEDY'S CLEANERS NYSDEC

8.8-10.5 WET, LT BRN, MODERATELY PLASTIC CLAY

10.5-11.2 MOIST TO WET, GRAY, HIGHLY PLASTIC CLAY

11.2-12.0 BLACK, LOOSE, ORGANIC MATERIAL, DRY TO MOIST WELL-GRADED CLAY, SOME F/M LOOSE SAND. * ODOR *

12.0-12.9 NO RECOVERY

12.9-13.0 MOIST, STICKY, GRAY, NON-PLASTIC CLAY

13.0-13.3 BLACK, POORLY GRADED MOIST F/M SAND, SOME CLAY

13.3-14.0 LT GRAY, MODERATELY PLASTIC MOIST CLAY

14.0-14.1 LT GRAY, DRY TO MOIST, LOOSE, POORLY GRADED, M/C SAND

14.1-16.0 DRY TO MOIST, LT BRN TO GRAY, NON-PLASTIC CLAY, M/C ROUNDED GRAVEL

16.0-16.3 ~~DRY TO MOIST, LT BRN NON-PLASTIC CLAY, SOME F/C GRAVEL~~ GRAY TO BLACK, MOIST, MODERATELY PLASTIC CLAY

16.3-17.0 DRY TO MOIST, LT BRN, NON-PLASTIC CLAY, SOME F/C GRAVEL

17.0-17.5 WET, LT GRAY TO TAN TILL, DENSELY PACKED

6/1/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/1/21

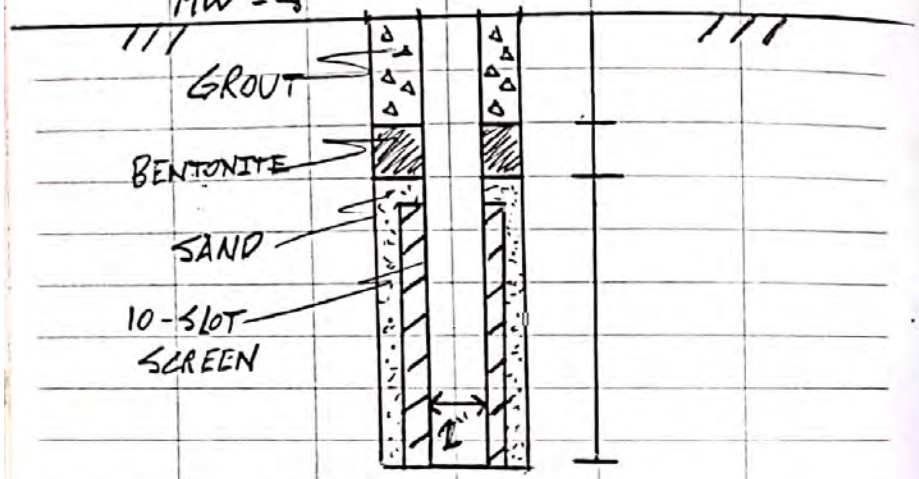
Project / Client SPEEDY'S CLEANERS NYSDEC

1615 MW-4 INSTALLATION COMMENCES

1700 MW-4 INSTALLATION COMPLETE

MW CONSTRUCTION FOLLOWS:

MW-4



1715 ALL PARTIES DEPART SITE

6/1/21

Location 3130 MONROE AVE Date 6/1/21

Project / Client SPEEDY'S CLEANERS NYSDEC

6/1/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/2/21

Project / Client SPEEDY'S CLEANERS NYSDEC

WEATHER: MOSTLY CLOUDY, 70'S

OBJECTIVE: ADVANCE AND SAMPLE SOIL BORINGS AT FOUR(4) PROPOSED LOCATIONS VIA DPT DRILLING AND SUBSEQUENTLY INSTALL FOUR(4) MONITORING WELLS.

PERSONNEL: COM SMITH:
- S. MARCIANO
- E. BIANCANIELLO

PARRATT-WOLFF:
- IAN GRASSIE
- COREY BROWN

PPE: MODIFIED LEVEL D

0700 ALL PARTIES ONSITE
SIGN NYSDEC COVID ENTRY LOG
TOOL BOX TALK

0715 MOBILIZE TO BS-12/MW-6
COMMENCE DPT SAMPLING

0830 SAMPLE 828109-BS-12-14-15-060221 COLLECTED AT HIGH PID READING FOR VOCs AND 1,4-DIOXANE

0915 SOIL BORING COMPLETE. MATERIAL DESCRIPTION FOLLOWS:

6/2/21

Location 3130 MONROE AVE Date 6/2/21

Project / Client SPEEDY'S CLEANERS NYSDEC

0.0-1.7	DRY, LOOSE, V. FINE/COARSE, BRN TO DK BROWN, WELL-GRADED GRAVEL WITH F/M SAND, ORGANIC MATERIAL FILL
1.7-2.9	DK BRN TO BLACK, DRY TO MOIST, POORLY GRADED F/M SAND, LITTLE F/M GRAVEL
2.9-3.2	LT GRAY, DRY, PACKED, POORLY GRADED SUBANGULAR GRAVEL FILL, LITTLE V. FINE/FINE SAND
3.2-4.0	DENSELY PACKED, LT BRN CLAY, DRY TO MOIST, NON-PLASTIC
4.0-4.6	NO RECOVERY
4.6-5.0	DRY, LOOSE, F/M, GRAY/BRN WELL-GRADED GRAVEL
5.0-5.9	DRY, BRN TO BLACK, WELL GRADED, F/M SAND W/COARSE GRAVEL
5.9-6.0	DRY TO MOIST BRN TO BLACK CLAYEY SAND, SOME M/C GRAVEL
6.0-8.0	MOIST TO DRY, LT BRN STICKY, NON-PLASTIC CLAY, DRY TO MOIST
8.0-8.5	NO RECOVERY
8.5-9.5	~~WET, LT BRN~~ DRY TO MOIST, DK BRN, WELL GRADED, F/M SAND WITH M/C GRAVEL

6/2/21

Scanned with CamScanner

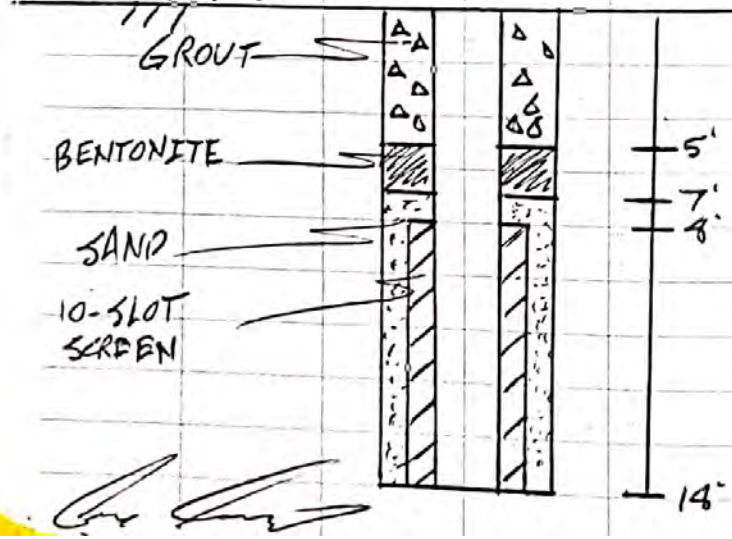
Location 3130 MONROE AVE Date 6/2/21

Project / Client SPEEDY'S CLEANERS NYSDEC

9.5-11.6	WET, LT BRN/BRN MODERATELY PLASTIC CLAY
11.6-12.0	WET, LT GRAY MODERATELY PLASTIC CLAY
12.0-13.6	NO RECOVERY
13.6-14.0	REDDISH BRN, MOIST, NON-PLASTIC CLAY WITH M/C GRAVEL
14.0-16.0	DRY TO MOIST, GRAY TO BROWN. NON-PLASTIC CLAY, SOME M/C GRAVEL/COARSE ROCK
16.0-17.0	DRY, BRN, NON-PLASTIC CLAY WITH F/M WELL GRADED GRAVEL
17.0-18.0	TIGHTLY PACKED, DRY, M/C GRAVEL PACK
18.0	REFUSAL. TILL

1000	COMMENCE MW-6 INSTALLATION
1045	MW-6 INSTALLATION COMPLETE
	MW CONSTRUCTION FOLLOWS:

MW-6



6/2/21

Location 3130 MONROE AVE Date 6/2/21

Project / Client SPEEDY'S CLEANERS NYSDEC

1100	MOBILIZE TO BS-11/MW-5 COMMENCE DPT SAMPLING. SM SEARCHES FOR MW-4. PARRATT-WOLFF COMMENCES WELL DEVELOPMENT ON MW-7.
1300	UNABLE TO LOCATE MW-4. RECOMMEND UTILIZING METAL DETECTOR. PARRATT-WOLFF COMMENCES WELL DEVELOPMENT ON MW-8
1415	SAMPLE 624109-BS-11-13-14-060221 COLLECTED AT HIGH PID READING FOR VOCs, 1,4-DIOXANE, PFAS, SVOCs, PESTICIDES, PCBS, INORGANICS
1420	MATRIX SPIKE SAMPLE COLLECTED
1425	MATRIX SPIKE DUPLICATE SAMPLE COLLECTED
1430	DUPLICATE SAMPLE COLLECTED.
1500	SOIL BORING COMPLETE. MATERIAL DESCRIPTION FOLLOWS
0.0-1.4	NO RECOVERY
1.4-2.0	DRY, BRN TO DK BRN, WELL-GRADED F/M GRAVEL WITH F/M SAND
2.0-2.4	DRY, GRAY WELL GRADED SUBANGULAR GRAVEL PACKED, SOME F/M SAND
2.4-2.8	DRY, BLACK, WELL GRADED F/M SAND SOME F/M GRAVEL

6/2/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/2/21

Project / Client SPEEDY'S CLEANERS NYSDEC

2.8-3.1	DRY TO MOIST, ORANGE TO BRN, POORLY GRADED F/M SAND, LITTLE F/M GRAVEL
3.1-4.0	DRY TO MOIST ORANGE TO BROWN NON-PLASTIC CLAY
4.0-5.4	NO RECOVERY
5.4-8.0	MOIST, ORANGE TO BRN NON-PLASTIC CLAY
8.0-9.0	NO RECOVERY
9.0-12.0	DRY TO MOIST, STICKY SLIGHTLY PLASTIC, ORANGE TO BRN CLAY
12.0-13.0	NO RECOVERY
13.0-13.6	MOIST TO WET, DK BRN, MODERATELY PLASTIC CLAY
13.6-14.0	DK BRN TO BLACK, DRY, TO MOIST, F/M WELL GRADED SAND, SOME F/C GRAVEL
14.0-14.6	MOIST, BRN, SLIGHTLY PLASTIC CLAY, PACKED WITH M/C GRAVEL
14.4-16.0	DRY TO MOIST, GRAY/BRN WELL GRADED COARSE GRAVEL, DENSELY PACKED. SOME CLAY
16.0-17.5	WET, STICKY, ORANGE TO DK BROWN SLIGHTLY PLASTIC SILTY CLAY. SOME F/M GRAVEL
17.5-19.0	WET, DENSELY PACKED TILL, SUBANGULAR

6/2/21

Location 3130 MONROE AVE Date 6/2/21

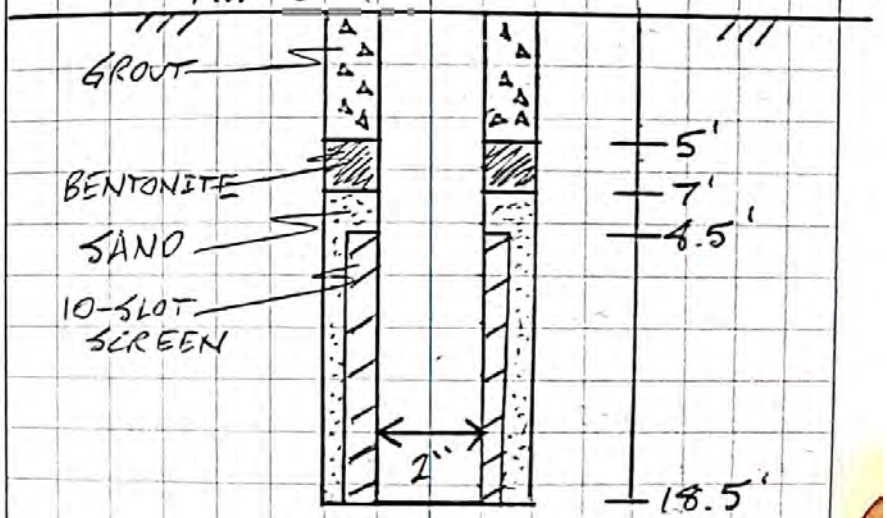
Project / Client SPEEDY'S CLEANERS NYSDEC

1515 COMMENCE MW-5 INSTALLATION

1600 COMPLETE MW-5 INSTALLATION

WELL CONSTRUCTION FOLLOWS:

MW-5



1700 ALL PARTIES DEPART SITE.

6/2/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/3/21

Project / Client SPEEDY'S CLEANERS NYSDEC

WEATHER: RAIN, 60'S

OBJECTIVE: COMPLETE DEVELOPMENT OF NEWLY INSTALLED MWs. STAGE, LABEL, LOCK ALL DRUMS ONSITE. DEMOBILIZE.

PERSONNEL: COM SMITH:
- S. MARCIANO
- E. BIANCANIELLO

PARRATT-WOLFF:
- I. GRASSIE
- C. BROWN

PPE: MODIFIED LEVEL D

0700 ALL PARTIES ONSITE. SIGN NYSDEC COVID ENTRY LOG TOOLBOX TALK

0715 MOBILIZE TO MW-6 TO DEVELOP. WILL PURGE ATLEAST EIGHT WELL VOLUMES.

0900 COMPLETE DEVELOPMENT OF MW-6 PARRATT-WOLFF COMMENCES DEMOBILIZATION OF DRILL RIG. DECONSTRUCTS AND DRUMS DECON PAD MOBILIZE TO MW-5 TO DEVELOP

6/3/21

Location 3130 MONROE AVE Date 6/3/21

Project / Client SPEEDY'S CLEANERS NYSDEC

1100 C. BROWN DEPARTS SITE W/DRILL RIG ALL DRUMS STAGED, LABELED, LOCKED

1200 COMPLETE MW-5 DEVELOPMENT ALL PARTIES DEPART SITE.

6/3/21

Rite in the Rain

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/21/21

Project / Client SPEEDY'S CLEANERS NYSDEC

WEATHER: CLOUDY, 60'S

OBJECTIVE: SAMPLE EXISTING AND NEWLY-INSTALLED MONITORING WELLS VIA LOW-FLOW SAMPLING. LOCATE AND SAMPLE MW-4.

PERSONNEL: COM SMITH:
- S. MARCIANO
- E. BIANCANIELLO

PPE: MODIFIED LEVEL D

0900 COM SMITH ONSITE
SIGN NYSDEC COVID ENTRY LOG
TOOLBOX TALK
EB COMMENCES SYNOPTIC ROUND
SM ATTEMPTS TO LOCATE MW-4
SYNOPTIC ROUND IS AS FOLLOWS:

TIME	WELL	DTW	TOTAL DEPTH	PID	NOTES:
910	MW-2	6.93	12.57		
930	MW-3	12.04	17.75		
1005	MW-3B	10.75	14.85		
1300	MW-4B	8.38	14.64		
925	MW-5	~~14.30~~ 12.01	14.30		
940	MW-6	11.59	17.10		
950	MW-7	10.55	17.10		
1000	MW-8	10.80	17.25		
1500	MW-1	6.39	10.00		
1504	MW-2B	11.60	14.44		

Location 3130 MONROE AVE Date 6/21/21

Project / Client SPEEDY'S CLEANERS NYSDEC

1200 EB MOBILIZES TO MONITORING WELL BELIEVED TO BE MW-1. AFTER SAMPLING COM SMITH DISCOVERS THAT THIS IS AN UNIDENTIFIED MW AND THAT MW-1 HAS BEEN DECOMMISSIONED. THIS WELL IS LABELED AS MW-3B HENCEFORTH.

1300 SM IS UNABLE TO LOCATE MW-4 AND RECIEVES INSTRUCTION FROM W. WERT OF COM SMITH TO PROCEED WITH LOW FLOW SAMPLING
SAMPLE 828109-GW-MW-3B-062121 COLLECTED AT MW-3B FOR VOCs, MNA, AND 1,4-DIOXANE. LOW FLOW PARAMETERS FOLLOW:

6/21/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/21/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (°C)	pH	ORP (mV)	SPEC COND. (mS/cm)	DO (mg/L)	TURB (NTU)
1200	17.7	6.95	-76.1	0.772	1.99	10.11
1205	17.5	6.94	-72.9	0.786	1.30	14.31
1210	17.4	6.92	-54.9	0.799	1.14	8.74
1215	18.9	6.92	-83.5	0.839	1.15	24.34
1220	17.7	6.92	-84.3	0.842	1.13	26.67
1225	17.7	6.93	-82.7	0.841	1.13	27.95
1230	16.2	6.93	-82.7	0.867	0.87	6.09
1235	16.5	6.92	-87.4	0.871	0.80	5.13
1240	17.8	6.93	-97.1	0.886	0.77	4.65
1245	17.8	6.94	-98.9	0.899	0.76	4.51
1250	17.7	6.93	-98.9	0.906	0.76	3.89
1255	17.8	6.93	-99.1	0.909	0.76	4.99

1310 SM MOBILIZES TO MW-2 AND COMMENCES LOW FLOW SAMPLING

1340 EB MOBILIZES TO MW-7 AND COMMENCES LOW FLOW SAMPLING

1410 HALT ALL SAMPLING DUE TO SEVERE WEATHER

1430 RESUME SAMPLING. SAMPLE 824109-GW-MW-2-062121 COLLECTED AT MW-2. FOR VOCs, SVOCs, MNA, 1,4-DIOXANE, PCBs, ~~PFAS~~, PESTICIDES AND METALS.

6/21/21

Location 3130 MONROE AVE Date 6/21/21

Project / Client SPEEDY'S CLEANERS NYSDEC

1435 SAMPLE 824109-GW-MW-2-062121-MS COLLECTED

1440 SAMPLE 824109-GW-MW-2-062121-MSD COLLECTED. LOW FLOW PARAMETERS FOLLOW:

TIME	TEMP (°C)	pH	ORP (mV)	SPEC COND (mS/cm)	DO (mg/L)	TURB (NTU)
1325	17.5	6.79	55.9	2.154	1.46	7.62
1330	17.3	6.81	57.3	1.947	1.03	2.29
1335	17.1	6.83	54.2	1.927	0.89	1.44
1340	17.2	6.84	53.1	1.908	0.81	2.06
1345	17.3	6.83	54.1	1.897	0.76	3.45
1350	17.3	6.84	55.3	1.892	0.72	5.15
1355	17.2	6.84	55.3	1.888	0.69	7.04
1400	17.2	6.84	54.9	1.884	0.66	9.44
1405	17.2	6.85	55.5	1.883	0.65	10.05

1450 SAMPLE 824109-GW-MW-7-062121 COLLECTED AT MW-7 FOR VOCs, MNA, AND 1,4-DIOXANE. LOW FLOW PARAMETERS FOLLOW:

6/21/21

Rite in the Rain

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/21/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	DO (mg/L)	TURB (NTU)
1340	15.9	6.76	-69.8	1.541	0.63	206.77
1345	16.0	6.75	-61.8	2.609	0.55	223.58
1350	15.4	6.75	-55.0	4.260	0.47	137.59
1355	15.3	6.75	-51.4	5.071	0.46	102.57
1400	15.4	6.78	-43.8	6.036	0.42	39.39
1405	15.2	6.78	-38.8	6.589	0.40	26.67
1410	15.3	6.75	-38.3	6.623	0.44	26.47
1415	15.3	6.76	-35.7	6.827	0.36	24.24
1420	15.3	6.77	-34.5	6.941	0.38	17.69
1425	15.1	6.84	-21.0	5.897	0.53	9.41
1430	15.1	6.81	-18.9	3.203	0.52	9.74
1435	14.9	6.80	-19.8	7.189	0.44	9.34
1440	14.9	6.82	-23.2	7.436	0.40	9.17
1445	14.9	6.81	-23.1	7.787	0.40	9.27

1615 EB MOBILIZES TO MW-8 AND COMMENCES LOW FLOW SAMPLING

1715 SAMPLE 824109-GW-MW-8-062121 COLLECTED AT MW-8. ~~LOW~~ FOR VOCs, MNA, AND 1,4-DIOXANE

LOW FLOW SAMPLING PARMETERS FOLLOW

6/21/21

Location 3130 MONROE AVE Date 6/21/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (°C)	pH	ORP (mV)	SPEC COND (mS/cm)	DO (mg/L)	TURBIDITY (NTU)
1635	13.5	6.97	66.5	6.900	0.84	90.93
1640	14.3	6.93	45.6	6.950	0.68	38.56
1645	14.3	6.93	38.8	6.938	0.56	27.45
1650	14.3	6.93	35.4	6.950	0.52	24.62
1655	14.3	6.92	35.3	6.947	0.52	25.93
1700	14.3	6.92	34.2	6.949	0.51	23.28
1705	14.3	6.92	33.7	6.960	0.49	24.20
1710	14.3	6.92	31.7	6.961	0.49	24.20
1715	14.3	6.92	31.6	6.962	0.49	23.98

1800 COM SMITH OFF SITE.

6/21/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/22/21

Project / Client SPEEDY'S CLEANERS NYSDEC

WEATHER: CLOUDY, 60'S

OBJECTIVE: SAMPLE EXISTING AND NEWLY INSTALLED MONITORING WELLS VIA LOW-FLOW SAMPLING.

PERSONNEL: CDM SMITH:
- S. MARCIANO
- E. BIANCANIELLO

PPE: MODIFIED LEVEL D

0730 CDM SMITH ONSITE
SIGN NYSDEC COVID ENTRY LOG
TOOLBOX TALK
UPON CHECKING HOLD TIMES, FERROUS IRON FOUND TO BE A 24 HR HOLD TIME. CDM SMITH CONTACTS TESTAMERICA TO SET UP COURRIER.
0800 NO COURRIER AVAILABLE.
0900 SM DEPARTS SITE TO DROP OFF SAMPLES AT TESTAMERICA BUFFALO LAB
EB LOW FLOW SAMPLES MW-6
0905 SAMPLE 828109-GW-MW-6-062221 COLLECTED AT MW-6 FOR VOCs, SVOCs, MNA, 1,4-DIOXANE, PCBs, PESTICIDES, METALS, PFAS.
0910 DUPLICATE 828109-GW-MW-906-062221 COLLECTED. LOW FLOW PARAMETERS FOLLOW

Location 3130 MONROE AVE Date 6/22/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (°C)	pH	ORP (mV)	SPEC COND (mS/cm)	DO (mg/L)	TURBIDITY (NTU)
815	12.8	6.99	8.0	1.684	0.97	30.86
820	12.8	6.97	-33.9	1.687	0.76	21.13
825	12.9	6.97	-41.1	1.681	0.68	38.79
830	12.8	6.96	-43.2	1.682	0.68	36.76
835	12.8	6.96	-47.6	1.682	0.63	33.97
840	12.9	6.95	-51.7	1.687	0.60	15.67
845	12.8	6.95	-53.9	1.687	0.60	14.37
850	12.9	6.94	-55.2	1.686	0.58	14.45
855	12.9	6.93	-56.2	1.681	0.58	14.31
900	12.9	6.93	-57.1	1.688	0.56	14.76

1055 SM DROPS OFF SAMPLES AT TESTAMERICA BUFFALO LABORATORY

1100 EB COMMENCES LOW FLOW SAMPLING AT MW-5.

1215 SAMPLE 828109-GW-MW-5-062221 COLLECTED AT MW-5 FOR VOCs, MNA, 1,4-DIOXANE LOW FLOW PARAMETERS FOLLOW

6/22/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/22/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (C)	pH	ORP (mv)	SPEC.COND. (mS/cm)	DO (mg/L)	TURB (NTU)
1100	12.7	7.25	87.9	2.060	6.25	127.14
1105	12.8	7.23	92.4	2.074	6.10	74.28
1110	12.7	7.17	97.2	2.172	5.56	41.40
1115	12.6	7.11	103.5	2.200	4.64	37.41
1120	12.6	7.11	103.7	2.203	4.60	36.96
1125	12.6	7.10	104.9	2.212	4.43	37.03
1130	12.8	7.11	103.2	2.200	4.51	36.93
1135	12.7	7.15	108.3	2.272	4.48	34.92
1140	12.9	7.12	120.1	2.277	3.25	27.67
1145	12.8	7.10	123.3	2.227	2.94	28.25
1150	12.7	7.10	124.6	2.313	2.66	25.72
1155	12.7	7.10	125.0	2.310	2.63	24.50
1200	12.7	6.97	126.9	2.308	2.64	9.90
1205	12.7	6.97	127.0	2.305	2.64	9.77
1210	12.8	6.97	127.1	2.304	2.65	9.23

1230 SM, ONSITE

[redacted] MOBILIZE TO MW-3. COMMENCE LOW FLOW SAMPLING

1355 SAMPLE 828109-GW-MW-3-062221 COLLECTED AT MW-3 FOR VOCs, MNA, 1,4-DIOXANE. SAMPLING PARAMETERS FOLLOW

6/22/21

Location 3130 MONROE AVE Date 6/22/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (C)	pH	ORP (mv)	SPEC COND (mS/cm)	DO (mg/L)	TURBIDITY (NTU)
1255	13.9	6.87	-61.6	2.350	1.02	162.73
1300	13.6	6.78	-60.3	2.582	0.69	51.92
1305	13.6	6.80	-62.4	2.771	0.56	18.01
1310	13.5	6.81	-62.9	2.808	0.55	14.32
1315	13.2	6.81	-63.6	2.862	0.50	11.59
1320	13.3	6.81	-63.7	2.[illegible]	0.49	11.62
1325	13.6	6.81	-64.1	2.915	0.48	11.40
1330	13.4	6.82	-64.5	2.937	0.46	10.83
1335	13.5	6.82	-64.7	2.940	0.47	4.31
1340	13.5	6.82	-65.0	2.978	0.47	4.03
1345	13.5	6.82	-65.0	2.980	0.47	4.29
1350	13.5	6.82	-64.9	2.940	0.47	4.13

1530 MOBILIZE TO MW-2B. PREVIOUSLY UNIDENTIFIED MW ON NW CORNER OF BUILDING. PRODUCT DISCOVERED DURING SYNOPTIC ROUND. COMMENCE LOW FLOW SAMPLING

1640 MW-2B STABILIZES AND THEN RUNS DRY. COM SMITH WILL ALLOW TO RECHARGE OVERNIGHT AND SAMPLE 6/23/21. SAMPLE PARAMETERS FOLLOW

6/22/21

Scanned with CamScanner

Location 3130 MONROE AVE Date 6/22/21

Project / Client SPEEDY'S CLEANERS NYSDEC

TIME	TEMP (°C)	pH	ORP (mv)	SPEC. COND. (mS/cm)	DO (mg/L)	TURB (NTU)
1550	15.0	6.74	-71.5	2.882	0.88	54.84
1555	16.3	6.77	-74.8	3.054	0.21	42.87
1600	17.1	6.79	-67.6	3.154	2.95	32.67
1605	15.5	6.77	-66.7	3.256	2.05	17.41
1610	15.5	6.81	-66.1	3.422	2.83	27.70
1615	15.5	6.83	-66.7	3.529	2.01	20.20
1620	15.5	6.85	-66.9	3.529	2.03	19.85
1625	15.6	6.84	-66.9	3.574	2.08	19.72
1630	15.6	6.85	-67.2	3.581	2.09	18.96
1635	15.6	6.85	-69.1	3.586	2.09	18.72

1730 COM SMITH DEPARTS SITE
SM TO DELIVER SAMPLES TO TESTAMERICA BUFFALO LABORATORY

1915 SAMPLES DELIVERED

6/22/21

Location 3130 MONROE AVE Date 6/23/21

Project / Client SPEEDY'S CLEANERS NYSDEC

WEATHER: SUNNY, 60°S

OBJECTIVE: SAMPLE MW-2B AND RUN EQUIPMENT BLANK. STAGE, LOCK, LABEL ALL DRUMS

PERSONNEL: COM SMITH
- S. MARCIANO

PPE: MODIFIED LEVEL D

0900 COM SMITH ONSITE

1000 SAMPLE 828109-GW-MW-2B-062321 COLLECTED AT MW-2B FOR VOCs, MNA, 1,4-DIOXANE

1015 EQUIPMENT BLANK EB-01 COLLECTED ON TANDEM LENGTH OF RIGID AND FLEX TUBING FOR VOCs, SVOCs, MNA, 1,4-DIOXANE, PFAS, PCBs, METALS, PESTICIDES.

1100 SM STAGES, LABELS, LOCKS ALL DRUMS AND SECURES ALL MWs

1200 COM SMITH DEPARTS SITE.

1325 ALL SAMPLES DELIVERED TO TESTAMERICA SYRACUSE SERVICE CENTER

6/23/21 Rain

Scanned with CamScanner

2021 RI Soil and Groundwater Sampling
Chains-of-Custody

Address:

Chain of Custody Record 422374

eurofins | Environment Testing TestAmerica

TAL-8210

Client Contact	Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:	Site Contact:	Date:	COC No:
Company Name: CDM Smith, INC	Project Manager: William Wert	Lab Contact:	Carrier:	___ of ___ COCs
Address: 11 British American Blvd Ste 200	Tel/Email: WertWA@CDMSmith.com			Sampler:
City/State/Zip: Latham, NY 12110	Analysis Turnaround Time			For Lab Use Only:
Phone: 610-263-2607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
Fax:	TAT if different from Below ___			Lab Sampling:
Project Name: Speedy's Cleaners # 828109	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No.:
Site: Callout ID: 140047				
PO#				Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOAs (8260D)	PFCs (537 Modified)	1,4-Dioxane (8270D)	TCL SVOAs (8270E)	TCL Pesticides (8081B)	TCL PCBs (8082A)	TAL Inorganics (6010D)	
828109-BS-13-10-12-060121	6/1/21	1215	G	S	2	N		X		X					
828109-BS-14-10-11-060121	6/1/21	1540	G	S	2	N		X		X					
828109-BS-12-14-15-060221	6/2/21	830	G	S	2	N		X		X					
828109-BS-11-13-14-060221	6/2/21	1415	G	S	7	N		X	X	X	X	X	X	X	
828109-BS-11-13-14-060221-MS	6/2/21	1420	G	S	7	Y		X	X	X	X	X	X	X	Parent sample: 828109-BS-11-13-14-060221
828109-BS-11-13-14-060221-MSD	6/2/21	1425	G	S	7	Y		X	X	X	X	X	X	X	
828109-BS-911-13-14-060221	6/2/21	1430	G	S	7	N		X	X	X	X	X	X	X	
TB-01	—	—	—	W	2			X							Trip Blank

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ___

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Cooler Temp. (°C): Obs'd: ___ Corr'd: ___ Therm ID No.: ___

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:				
Relinquished by:	Company: CDM Smith	Date/Time: 6/3/21 1440	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Charles Gregory	CDM Smith	Johnson, Orlette S		480-162178-35622.1
Company: New York State D.E.C.	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Address: 625 Broadway Division of Environmental Remediation	PWSID:	Due Date Requested:		Job #:
City: Albany		TAT Requested (days):		
State, Zip: NY, 12233-7014		Compliance Project: Δ Yes Δ No		
Phone:		PO #: CallOut ID 140047		
Email: charles.gregory@dec.ny.gov		WO #:		
Project Name: Speedy's Cleaners #828109		Project #: 48023897		
Site:		SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4-Dioxane	SM4500_S2_F - Sulfide, Total	353.2_Nitrite, D516, Nitrate_Calc, SM4500_Cl_E	2320B - Alkalinity	3500_FE_D - Ferrous Iron	PFC_IDA - PFAS, Standard List (21 analytes)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	CB	N	N	N	N	N	N	N	D		
828109-GW-MW-2-062121	6/21/21	1430	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	21	
828109-GW-MW-2-062121-MS	6/21/21	1435	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	21	
828109 GW-MW-2-062121-MSD	6/21/21	1440	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	21	
828109-GW-MW-3B-062121	6/21/21	1300	G	Water			X	X	X	X	X	X	X						12	
828109-GW-MW-7-062121	6/21/21	1450	G	Water			X	X	X	X	X	X	X						12	
828109-GW-MW-8-062121	6/21/21	1715	G	Water			X	X	X	X	X	X	X						12	
				Water																
				Water																
				Water																
				Water																
				Water																

6/22/21

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

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/22/21 1055	CDM Smith			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Chain of Custody Record

eurofins | Environment Testing America

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Sampler: COM Smith
Phone: 518-694-5448
PWSID:

Lab PM: Johnson, Orlette S
E-Mail: Orlette.Johnson@Eurofinset.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-162178-35622.2
Page: Page 1 of 1
Job #:

Client Information
Client Contact: Charles Gregory
Company: New York State D.E.C.
Address: 625 Broadway Division of Environmental Remediation
City: Albany
State, Zip: NY, 12233-7014
Phone:
Email: charles.gregory@dec.ny.gov
Project Name: Speedy's Cleaners #828109
Site:

Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: CallOut ID 140047
WO #:
Project #: 48023897
SSOW#:

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4-Dioxane	SM4500_S2_F - Sulfide, Total	353.2_Nitrite, D516, Nitrate_Calc, SM4500_Cl_E	2320B - Alkalinity	3500_FE_D - Ferrous Iron	PFC_IDA - PFAS, Standard List (21 analytes)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	CB	N	N	N	N	N	N	N	D		
828109-GW-MW-6-062221	6/22/21	905	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	11	19
828109-GW-MW-906-062221	6/22/21	910	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	21	19
828109-GW-MW-5-062221	6/22/21	1215	G	Water			X	X	X	X	X	X	X						12	
828109-GW-MW-3-062221	6/22/21	1355	G	Water			X	X	X	X	X	X	X						12	
TB-02	—	—	—	Water			X												1	TRIP Blank
				Water																
				Water																

6/22/21

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6/22/21 1915	Company COM Smith	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: CDM Smith	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-162178-35622.2
Client Contact: Charles Gregory	Phone: 518-698-5446	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: New York State D.E.C.	PWSID:			Job #:
Address: 625 Broadway Division of Environmental Remediation	Due Date Requested:			
City: Albany	TAT Requested (days): STD			
State, Zip: NY, 12233-7014	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID 140047			
Email: charles.gregory@dec.ny.gov	WO #:			
Project Name: Speedy's Cleaners #828109	Project #: 48023897			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4-Dioxane	SM4500_S2_F - Sulfide, Total	353.2_Nitrite, D516, Nitrate_Calc, SM4500_Cl_E	2320B - Alkalinity	3500_FE_D - Ferrous Iron	PFC_IDA - PFAS, Standard List (21 analytes)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	CB	N	N	N	N	N	N	N	D		
828109-GW-MW-2B-062321	6/23/21	1000	G	Water			X	X	X	X	X	X	X						12	
828109-GW-MW-6-062221	6/22/21	905	G	Water										X					2	
828109-GW-MW-906-062221	6/22/21	910	G	Water										X					2	
828109-GW-MW-2-062121	6/21/21	1430	G	Water										X					2	
828109-GW-MW-2-062121-MS	6/21/21	1435	G	Water		X								X					2	
828109-GW-MW-2-062121-MSD	6/21/21	1440	G	Water		X								X					2	
EB-01	6/23/21	1015	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	21	

6/23/21

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

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

Special Instructions/QC Requirements:

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

Method of Shipment:

Empty Kit Relinquished by:	Date:	Time:			
Relinquished by:	Date/Time: 6/23/21 1325	Company: CDM Smith	Received by:	Date/Time: 6-23-21, 1325	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

2023 RI Groundwater Screening, Well Installation, and Groundwater Sampling Logbook

Location 3130 MONROE AVE ROCHESTER, NY Date 3/3/23

Project / Client SPEEDY'S CLEANERS / NYSDEC

OAK HILL CC OFF-SITE INVESTIGATION

WEATHER: CLOUDY, 35°F

OBJECTIVE: CONDUCT GPR CLEARANCE OF PROPOSED GROUNDWATER SCREENING LOCATIONS. OPEN SECTION OF FENCE TO ALLOW ACCESS FOR DRILLING OPERATIONS ON OAK HILL COUNTRY CLUB PROPERTY.

PPE: MODIFIED LEVEL D

PERSONNEL: S. MARCIANO - CDM SMITH
KEVEN CARPENTER - OAK HILL CC
MIKE MESAROS - EAST COAST
MIKE PEPE - LABELLA

0830 CDM SMITH ONSITE
EAST COAST GEOPHYSICS ONSITE
TOOLBOX TALK
EQUIPMENT CALIBRATION

0900 OAK HILL CC ONSITE
SITE WALK/ORIENTATION

0930 LABELLA ONSITE
GPR SURVEY COMMENCES.

1000 FENCE DISASSEMBLY COMMENCES

1030 FENCE DISSASSEMBLY COMPLETE
LABELLA DEPARTS SITE

1200 GPR SURVEY COMPLETE. ALL UTILITIES MARKED. ALL PARTIES DEPART

Location 3130 MONROE AVE ROCHESTER, NY Date 3/13/23

Project / Client SPEEDY'S CLEANERS/NYSDEC

OAK HILL CC OFFSITE INVESTIGATION

WEATHER: SNOW, 35°F

OBJECTIVE: ADVANCE EIGHT (8) GROUNDWATER SCREENING BORINGS VIA DPT, RECORD CONTINUOUS LITHOLOGY, AND INSTALL THREE (3) PERMANENT GROUNDWATER MONITORING WELLS

PPE: MODIFIED LEVEL D

PERSONNEL: CDM SMITH
LABELLA - DRILLERS
OAK HILL COUNTRY CLUB
KRIS KREMAR - NYSDEC

0815 CDM SMITH ONSITE
OAK HILL COUNTRY CLUB ONSITE
BEGIN EQUIPMENT CALIBRATION

0845 LABELLA ONSITE
TOOLBOX TALK

0915 BEGIN MOBILIZATION TO OAK HILL CC PROPERTY

0945 SETUP CAMP + MOB TO GWS-3 / MW-11

1000 COMMENCE DRILLING VIA DIRECT PUSH TECHNOLOGY (DPT)

3/13/23

Rite in the Rain

Location 3130 MONROE AVE ROCHESTER, NY Date 3/13/23

Project / Client SPEEDYS CLEANERS / NYSDEC

OAK HILL COUNTRY CLUB OFFSITE INVESTIGATION

1015	REFUSAL AT 13 FT BGS (GLACIAL TILL). SET SP-16 SAMPLER
1030	DEPTH TO WATER - 6.13' BGS
	GWS-3-GW-03132023 COLLECTED
1045	PULL SP-16. MOB TO GWS-2
1100	COMMENCE DRILLING AT GWS-2 VIA DPT
1105	REFUSAL AT ~~4~~ 6' BGS (GLACIAL TILL)
	DTW - 2.00' BGS
1120	GWS-2-GW-03132023
1125	~~GWS-2-G~~ GWS-902-GW-03132023 COLLECTED
	MOB TO GWS-4
	ADVANCE VIA DPT
1140	REFUSAL AT 10' BGS (GLACIAL TILL)
	DTW - 2.92' BGS
1200	GWS-4-GW-03132023 COLLECTED
1215	BREAK FOR LUNCH
1315	REMOB TO GWS-5
1325	REFUSAL AT 9' BGS
1330	GWS-5-GW-03132023
1335	GWS-5-GW-03132023-MS
1340	GWS-5-GW-03132023-MSD

3/13/23

Location 3130 MONROE AVE ROCHESTER, NY Date 3/13/23

Project / Client SPEEDYS CLEANERS / NYSDEC

1400	MOB TO GWS-6. COMMENCE DRILLING VIA DPT
1405	REFUSAL AT 11.1' BGS (TILL)
1415	DTW - 4.31' BGS
	GWS-6-GW-03132023 COLLECTED
1420	MOB TO GWS-7. COMMENCE DRILLING
1440	GWS-7-GW-03132023 COLLECTED
	REFUSAL AT 10' BGS (GLACIAL TILL)
	DTW - 1.41' BGS
1445	MOB TO GWS-8. COMMENCE DRILLING
1455	REFUSAL 10' BGS (GLACIAL TILL)
	DTW - 1.22' BGS
1500	GWS-8-GW-03132023 COLLECTED
1515	ALL PARTIES DEPART SITE

3/13/23

Rite in the Rain

Location 3130 MONROE AVE ROCHESTER, NY Date 3/14/23

Project / Client SPEEDY'S CLEANERS / NYSDEC

OAK HILL CC OFFSITE INVESTIGATION

WEATHER: SNOW, 26°F (WINDY)

OBJECTIVE: ADVANCE ONE REMAINING GROUNDWATER SCREENING BORING. INSTALL THREE PERMANENT GROUNDWATER MONITORING WELLS

PPE: MODIFIED LEVEL D

PERSONNEL: COM SMITH
LABELLA
OAK HILL CC

0800 ALL PARTIES ONSITE
TOOLBOX TALK
PREP DRILL RIG FOR HOLLOW STEM AUGERING AT MW-11

1000 AUGER REFUSAL AT 13' BGS
LABELLA PREPS FOR MW INSTALL BUT ONLY STOCKED #00 SAND FILTER MATERIAL.
COM SMITH DETERMINES THAT #1 SAND WOULD BE MORE APPROPRIATE FILTER MATERIAL

1030 LABELLA DEPARTS TO ROCHESTER SHOP TO STOCK #1 SAND

1130 LABELLA REMOBS TO MW-11

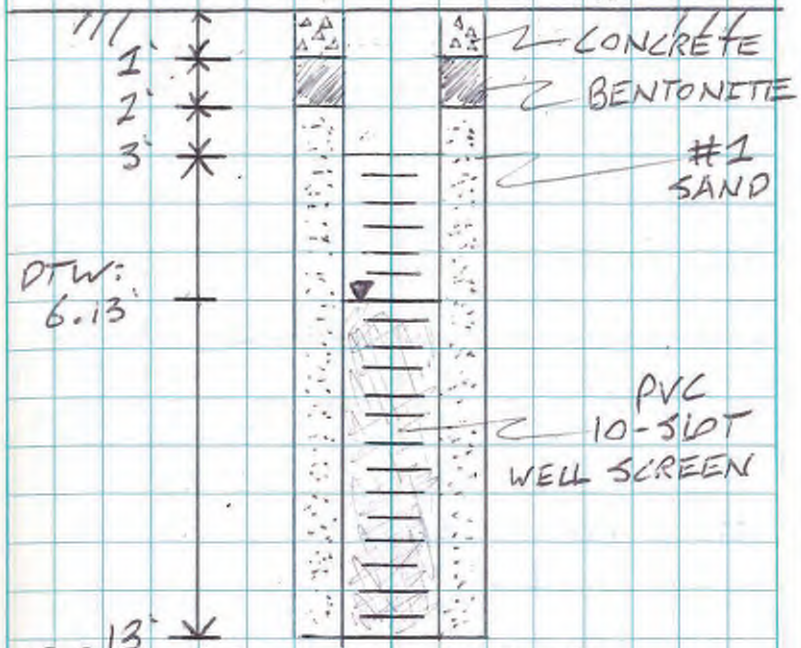
3/14/23

Location 3130 MONROE AVE Date 3/14/23

Project / Client SPEEDY'S CLEANERS

1140 BEGIN CONSTRUCTION OF MW-11

MW-11



1300 BENTONITE HYDRATED.
LABELLA DEMOBILIZES DUE TO DETERIORATING WEATHER CONDITIONS. RIG STAGED AT MW-11 OVERNIGHT.
COM SMITH DEPARTS SITE

3/14/23

Location 3130 MONROE AVE ROCHESTER, NY Date 3/16/23

Project / Client SPEEDY'S CLEANERS / NYSDEC

OAK HILL CC OFFSITE INVESTIGATION

WEATHER: 50'S, SUNNY (WINDY)

OBJECTIVE: ADVANCE ONE REMAINING GROUNDWATER SCREENING BORING AND ~~2 REM~~ INSTALL TWO REMAINING PERMANENT GROUNDWATER MONITORING WELLS

PPE: MODIFIED LEVEL D

PERSONNEL: COM SMITH
LABELLA
OAK HILL CC

NOTE: LABELLA DID NOT MOB TO SITE ON 3/15/23 DUE TO WEATHER CONDITIONS.

0800 ALL PARTIES ONSITE
TOOLBOX TALK

0815 MOB DRILL RIG TO MW-10
COMMENCE HOLLOW STEM AUGERING

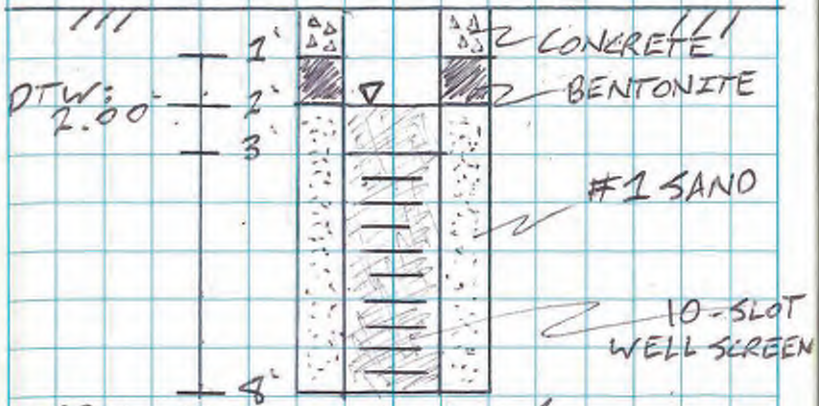
0900 AUGER REFUSAL AT 8' BGS
COMMENCE INSTALL OF MW-10

3/16/23

Location 3130 MONROE AVE Date 3/16/23

Project / Client SPEEDY'S CLEANERS

MW-10



0930 MOB TO GWS-1/MW-9

1000 ADVANCE GWS-1 VIA DPT

1130 GWS-1-03162023 COLLECTED

1230 INSTALL MW-9. DPT REFUSAL AT 19' BGS (GLACIAL TILL). LABELLA COMMENCES DEVELOPMENT OF MW-10 + MW-11.

1300 AUGER REFUSAL AT 19' BGS
COMMENCE MW-9 CONSTRUCTION

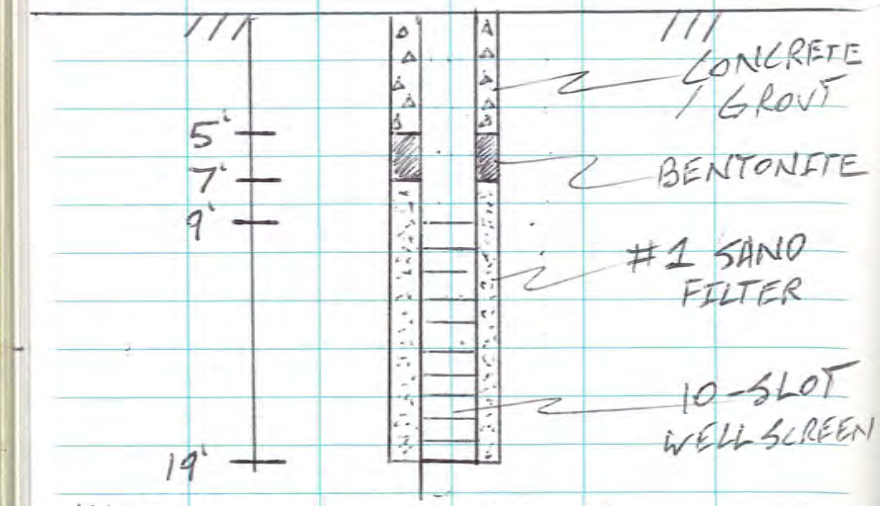
3/16/23

Rite in the Rain

Location 3130 MONROE AVE Date 3/16/23

Project / Client SPEEDYS CLEANERS

MW-9



1400 WELL DEVELOPMENT CONTINUES AS SURFACE CONSTRUCTION OF MW-9 COMMENCES

1600 ALL THREE MONITORING WELLS DEVELOPED:

WELL	GALLONS PURGED	NTU
MW-11	18	48
MW-10	20	41
MW-9	22	11

1700 ALL PURGE WATER DRUMMED IDW STAGED IMMEDIATELY BEHIND SPEEDYS CLEANERS. ALL PARTIES DEMOBILIZE FROM SITE

Location 3130 Monroe Ave Date 4/3/23

Project / Client Speedy's Cleaners / NYSDEC

Weather. AM: 36°F, Wind - 8mph SSW, Clear
PM: 61°F, Wind - 15mph WNW, Sunny
Purpose: Ground water sampling at MW-9, MW-10, MW-11, MW-5, MW-3, IDW characterization, Water level synoptic.
Personnel: Michael Hoffman (COM Smith) and Joshua Glosenger (COM Smith)
PPE: Mod. Level D.
07:00 - Hoffman and Glosenger on site began scouting wells on site.
07:10 - Safety talk complete, HASP signed.
07:19 - Began clearing off wells - doing prep work.
07:24 - Starting water level synoptic at MW-9.
07:50 - Unable to located MW-3 and MW-6 took picture.
08:30 - Glosenger starting equipment calibration Hoffman to finish synoptic, No IDW drum delivery yet.
09:00 - Hoffman to MW-10 & MW-11 for synoptic.
09:33 - Synoptic done except for MW-3 and MW-6 watch are missing.

Rite in the Rain

Location 3130 Monroe Avenue Date 4/3/23

Project / Client Speedy's Cleaners - NYSD EC

Hoffman to start calibrating equipment.
10:03 - YSIs and HACH 2100Q calibrated. Working on ferrous iron kit and doing prep work.
11:00 - Hoffman to MW-10, Blosenger to MW-11
12:08 - MW-11 stabilized for all parameters except DO - probe on Blosengers YSI crashed. stuck at 0 - tried to make it work but couldn't fix it.
12:45 - all samples collected at MW-10 and MW-11. MW-10 stabilized at 11:56 - sampled at 12:05. MW-11 - sampled at 12:08. MW-10-828109-MW-10-3-F-040323 sampled for PFAS, VOCs and MNA. Ferrous Iron at MW-10 was 0.04 mg/L - used HACH IR 900 kit. MW-11 - 828109-MW-11-3-F-040323 sampled for PFAS, VOCs and MNA. Ferrous Iron at MW-11 was 1.28 mg/L - used HACH IR 900 kit.
13:10 - Hoffman and Blosenger packing up and moving to MW-9 and MW-5
14:22 - All MW-10 and MW-11 samples labeled and accounted for.
14:35 - starting to purge MW-9.
14:58 - starting to purge MW-5

Location 3130 Monroe Avenue Date 4/3/23

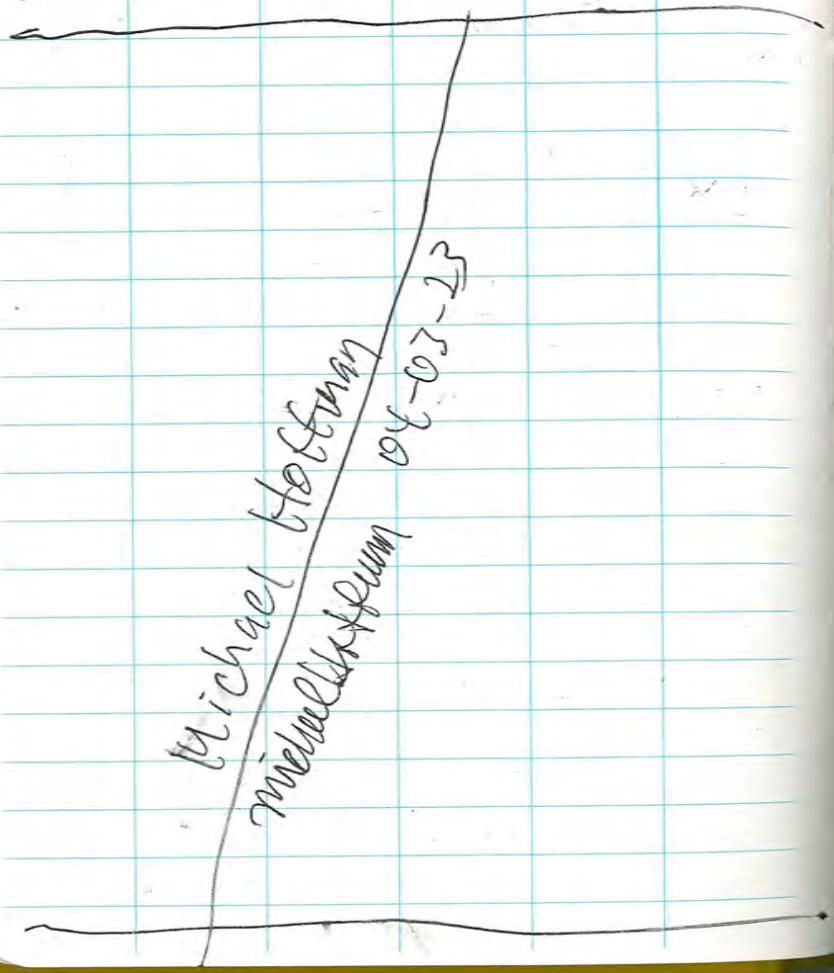
Project / Client Speedy's Cleaners - NYSD EC

15:20 - MW-9 stabilized
15:23 - MW-5 stabilized.
16:00 - all samples at MW-9 and MW-5 collected. MW-9: samples taken at 15:25, MS/MSD for PFAS & VOCs taken here - 828109-MW-9-9-19-040323. Samples taken for VOCs, PFAS and MNA. Ferrous Iron was 0.00 mg/L - taken using HACH IR-900. MW-5: samples taken at 15:57. Duplicate for PFAS & VOCs taken here - 828109-MW-5-8.5-16.5-040323. Samples taken for PFAS and VOCs - NO MNA at this well.
16:30 - Equipment blank for PFAS taken off of tubing - 828109-EB-01-040323
17:00 - Prepping coolers & packing equipment.
17:30 - shipping out MNA samples today due to hold time concerns. COC filled out.
18:00 - Blosenger off site to drop off cooler at Eurofins Service Center in Rochester
18:28 - Hoffman off site to buy lunch tickets as no IDW Drum drop off today. Measuring purge water in 5 gal buckets

Rite in the Rain

Location 3130 Monroe Avenue Date 4-3-23
Project / Client Speedy's Cleaners - NYSDEC

With lid and Non Hazardous Waste Stickers near existing IDW Drums.
14:02 - Hoffman on site to secure buckets with purge water.
14:07 - Hoffman off site



Location 3130 Monroe Avenue Date 4-4-23
Project / Client Speedy's Cleaners - NYSDEC

Weather: AM: 46°F, Wind - 5mph SSE, Rain
PM: 48°F, Wind - 16mph NE, Overcast
Purpose: IDW Characterization, Location of MW-3 and MW-6, MW survey, Lock gate, sample MW-3 if possible
Personnel: Michael Hoffman (CDM Smith), Joshua Glosenger (CDM Smith), Tom Smith (CT Male Associates)
07:00 - Hoffman and Glosenger on site
07:25 - Lock set at code 5104 - Glosenger to go to homedepot to get a chain as the gate latch is too large for any combination lock
07:30 - Hoffman prepping IDW soil composite - decanned 5 gallon bucket with Alkanox and DI H2O free water.
07:38 - La Bella shows up - drops off 2 - 55 gallon drums.
07:55 - For soil, soil is scooped out of IDW drums with stainless steel trowel. Trowel was decanned with Alkanox and DI H2O free water between drums.
08:00 - Start collection of IDW soil characterization - 82104-IDW-Soil-040423

Rite in the Rain

Location 3130 Monroe Avenue Date 4-4-23

Project / Client Speedy's Cleaners - NYSDEC

08:15 - All IDW soil samples taken - PFAS, VOCs, and TCLP parameters. Blosenger on site to lock gate.

08:30 - IDW soil drums closed up, labeling,

09:09 - IDW soil samples labeled, prepping aqueous ~~drum~~ composite.

09:15 - Surveyor Tom Smith on site.

09:25 - Blosenger and Smith found MW-6 with metal detector. Looking for MW-3

09:48 - Composite for aqueous with bailer in 5 gallon bucket.

10:00 - Blosenger and Smith ~~found~~ MW-3.

10:14 - Aqueous composite ~~ready~~.

10:19 - Start collecting IDW samples #2 & 104-IDW-WW-040423. WW = Waste water.

10:45 - MW and BWS survey completed & Smith off site

11:00 - All IDW samples collected PFAS, VOCs and TCLP parameters.

11:11 - All IDW samples Labeled. Blosenger ~~re~~ bring ~~s~~ synoptic to ~~re~~ locate MW-3 and MW-6

11:55 - Hoffman setting up equipment at MW-3

12:22 - ~~Synoptic~~ Synoptic completed. All equipment calibrated.

Location 3130 Monroe Avenue Date 4-4-23

Project / Client Speedy's Cleaners - NYSDEC

13:00 - MW-3 start of ~~pump~~ pump.

13:40 - MW-3 stabilized

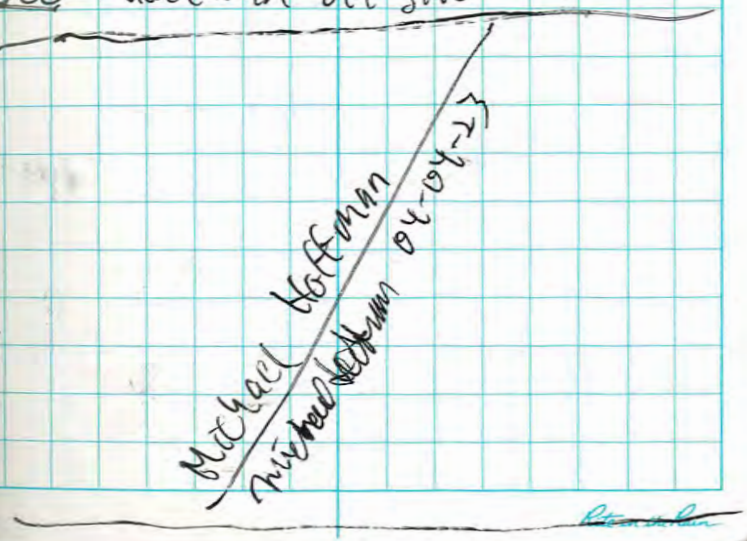
13:50 - Samples collected at MW-3, Blosenger prepping coolers and COC for shipment during ~~pumping~~ of MW-3.

14:05 - packing up equipment

14:30 - Beginning QA/QC Check of Coolers. Equipment Blank for PFAS taken ~~at~~ of gloves at 13:45 - 82409-EB-02-040423.

15:30 - Blosenger off site. All coolers ready to drop off at Eurofins Service Center in Rochester NY.

16:00 - Hoffman off site



2023 RI Groundwater Sampling
Chains-of-Custody

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins Environment Testing

Client Information	Sampler: CDM SMITH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-182725-38797.3
Client Contact: Lia Estrada	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: ~~Page 3 of 5~~ 1 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STANDARD			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: estradal@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, ecify)

480-207038 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	1633 - List of 40 (EPA 1633 Draft Method)	Tot	Special Instructions/Note:
Preservation Code:							A	N		
TB-03132023	3/13	1000		Water			X		3	
GWS-3-03132023	3/13	1030	G	Water			X	X	5	
GWS-2-03132023	3/13	1120	G	Water			X	X	5	
GWS-902-03132023	3/13	1125	G	Water			X	X	5	
GWS-4-03132023	3/13	1200	G	Water			X	X	5	
EB-03132023	3/13	1230	G	Water			X	X	5	
GWS-5-03132023	3/13	1330	G	Water			X	X	5	
GWS-5-03132023-MS	3/13	1335	G	Water		X	X	X	5	
GWS-5-03132023-MSD	3/13	1340	G	Water		X	X	X	5	
GWS-6-03132023	3/13	1415	G	Water			X	X	5	
GWS-7-03132023	3/13	1440	G	Water			X	X	5	

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)
NYSDEC CATEGORY A + B REPORTS REQUESTED

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 3/16/23 1810	Company: CDM Smith	Received by:	Date/Time: 3-16-23 1810	Company: EETW	
Relinquished by:	Date/Time: 3-17-23 1700	Company: EETW	Received by:	Date/Time: 3/18/23 0900	Company: TAB	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.0, 3.3

Ver: 06/08/2021

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins Environment Testing

Client Information	Sampler: COM SMITH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-182725-38797.5
Client Contact: Lia Estrada	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: ~~Page 5 of 5~~ 2 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STANDARD			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: estradal@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	1633 - List of 40 (EPA 1633 Draft Method)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	X	
GW5-8-03132023	3/13	1500	G	Water			X	X	5	
GW5-1-03162023	3/16	1130	G				X	X	5	
EB-03162023	3/16	1200	G					X	2	

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

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

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC CATEGORY A + B REPORT REQUESTED

Special Instructions/QC Requirements:

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

	Date/Time	Company		Date/Time	Company
Relinquished by:	3/16/23 1810	COM Smith	Received by:	3-16-23 1810	EETN
Relinquished by:	3-17-23 1700	EETN	Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79227.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207038-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/6/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GWS-3-03132023 (480-207038-2)	3/13/23	10:30 Eastern		Water			X	X	2	
GWS-2-03132023 (480-207038-3)	3/13/23	11:20 Eastern		Water			X	X	2	
GWS-902-03132023 (480-207038-4)	3/13/23	11:25 Eastern		Water			X	X	2	
GWS-4-03132023 (480-207038-5)	3/13/23	12:00 Eastern		Water			X	X	2	
EB-03132023 (480-207038-6)	3/13/23	12:30 Eastern		Water			X	X	2	
GWS-5-03132023 (480-207038-7)	3/13/23	13:30 Eastern		Water			X	X	2	
GWS-5-03132023 (480-207038-7MS)	3/13/23	13:30 Eastern	MS	Water			X	X	2	
GWS-5-03132023 (480-207038-7MSD)	3/13/23	13:30 Eastern	MSD	Water			X	X	2	
GWS-6-03132023 (480-207038-8)	3/13/23	14:15 Eastern		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-20-23 1600	TAB			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	3/21/23 0940	

Custody Seals Intact: Δ Yes Δ No — Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79227.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207038-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/6/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GWS-7-03132023 (480-207038-9)	3/13/23	14:40 Eastern		Water			X	X	2	
GWS-8-03132023 (480-207038-10)	3/13/23	15:00 Eastern		Water			X	X	2	
GWS-1-03162023 (480-207038-11)	3/16/23	11:30 Eastern		Water			X	X	2	
EB-03162023 (480-207038-12)	3/16/23	12:00 Eastern		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-20-23 1600	TAL			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	3/21/23 0910	

Custody Seals Intact: Δ Yes Δ No (5) | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: JLG/MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.1
Client Contact: William Wert	Phone: (607) 239-3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: CDM Smith Inc	PWSID:			Job #:

Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23	Analysis Requested
City: Latham	TAT Requested (days): 10	
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 110645	
Email: wertwa@cdmsmith.com	WO #:	
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213	
Site:	SSOW#:	

Preservation Codes: A - HCL, B - NaOH, M - Hexane, N - None, O - AsNaO2

480-207520 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS - Local Method	300.0_28D - Cl/SO4	5310C - TOC	SM4500_S2_F - Sulfide	353.2 - Nitrate/nitrite	2320B - Alk	8260C - TCL VOCs	1010A, 8082A, 9012B, 9045C	1633 -	6010C, 7470A, 8081B, 8151A, 8270D	8082A -	8081B, 8270D	Total Number of cont	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A	CB	N	N	MA	N	N	N	N	N	X	Other:
828109-MW-5-8.5-18.5-040323	4/3/23	15:35	G	Water										X						3	
828109-MW-9-9-19-040323	4/3/23	15:25	G	Water										X						3	
828109-MW-9-9-19-040323-MS	4/3/23	15:25	G	Water										X						3	
828109-MW-9-9-19-040323-MSD	4/3/23	15:25	G	Water										X						3	
828109-MW-10-3-8-040323	4/3/23	12:05	G	Water										X						3	
828109-MW-11-3-13-040323	4/3/23	12:08	G	~~Solid~~ Water										X						3	
828109-MW-905-8.5-18.5-040323	4/3/23	15:35	G	Water										X						3	
828109-MW-3-8-18-040423	4/4/23	13:50	G	water										X						3	
Trip Blank	3/30/23			water										X						~~2~~ 2	lot# Fisher 219209

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: All vials have HCL except Page 2

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jason Flaherty	4/4/23 16:45	CDM Smith	Chris Wiew Civ.016	4/5/23 945	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.9 #1 ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: JCL/MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.2
Client Contact: William Wert	Phone: (607)239 3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23			
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A -	6010C, 7470A	9012B -	9040B - pH	1010A - Ignitability, Pensky-Martens Closed-Cup Method	8260C	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	B	N	N	N		
828109-IDW-WW-040423	4/4/23	10:15	C	Water								X	3	
				~~Water~~										
				~~Water~~										
				~~Water~~										
				~~Water~~										
828109-IDW-Soil-040423	4/4/23	8:00	C	Solid								X	1	
				~~Water~~										
Trip Blank	3/30/23			Water								X	2	lot # Fischer 218207

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

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

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

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

Special Instructions/QC Requirements: NP HCL

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Josh Bloom	4/4/23 16:45	CDM Smith	[illegible]	4/5/23 945	FA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: JCG / MJH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928 1
Client Contact: William Wert	Phone: (607) 239-3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: CDM Smith Inc	PWSID:	Analysis Requested		Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23			Preservation Codes:
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

480-207597 Chain of Custody

K - EDTA
L - EDA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS - Local Method	300.0_28D - Cl/SO4	5310C - TOC	SM4500_S2_F - Sulfide	353.2 - Nitrate/nitrite	2320B - Alk	8260C -	1010A, 8082A, 9012B, 9045C	1633 -	6010C, 7470A, 8081B, 8151A, 8270D	8082A -	8081B, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code				N	N	N	A	CB	N	N	N	N	N	N	N	N		
828109-MW-9-9-19-040323	4/3/23	15:25	G	Water			X	X						*						3	PFAS only
828109-MW-9-9-19-040323-MS	4/3/23	15:25	G	Water			X	X						*						3	
828109-MW-9-9-19-040323-MSD	4/3/23	15:25	G	Water			X	X						*						3	
828109-MW-10-3-8-040323	4/3/23	12:05	G	Water			X	X												3	
828109-MW-11-3-13-040323	4/3/23	12:04	G	Water			X	X												3	
828109-MW-5-8.5-18.5-040323	4/3/23	15:35	G	Water			X	X												3	Sample time 15:35
828109-MW-905-8.5-18.5-040323	4/3/23	15:35	G	Water			X	X												3	
828109-EB-01-040323	4/3/23	16:30	G	water			X	X												3	
828109-IDW-WW-040423	4/4/23	10:15	GC	water			X	X												3	
828109-MW-3-8-18-040423	4/4/23	13:50	G	water			X	X												3	
828109-IDW-Soil-040423	4/4/23	8:00	GC	soil			X													1	

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

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

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

Special Instructions/QC Requirements: Do Not Run 8260C

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4/4/23 16:45	CDMSmith	[signature]	4/5/23 930	TA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4.0# ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JG/MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.2
Client Contact: William Wert	Phone: (607) 239-3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23			
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A -	6010C, 7470A	9012B -	9040B - pH	1010A - Ignitability, Pensky-Martens Closed-Cup Method	8260C	1633 (List of 40)	1633 - Draft TSS - Local						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	B	N	N										
828109 - EB - 02 - 040423	4/4/23	13:15	G	Water									X	X						3	
				~~Water~~																	
				~~Water~~																	
				~~Water~~																	
				~~Water~~																	
				~~Solid~~																	
				~~Water~~																	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/4/23 16:45	CDM Smith	[signature]	4/5/23 938	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79620.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207597-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/25/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	1633/1633_Biosol_P List of 40 (EPA 1633 Draft Method)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
828109-MW-9-9-19-040323 (480-207597-1)	4/3/23	15:25 Eastern		Water			X	X		3	
828109-MW-9-9-19-040323 (480-207597-1MS)	4/3/23	15:25 Eastern	MS	Water			X	X		3	
828109-MW-9-9-19-040323 (480-207597-1MSD)	4/3/23	15:25 Eastern	MSD	Water			X	X		3	
828109-MW-10-3-8-040323 (480-207597-2)	4/3/23	12:05 Eastern		Water			X	X		3	
828109-MW-11-3-13-040323 (480-207597-3)	4/3/23	12:08 Eastern		Water			X	X		3	
828109-MW-5-8 5-18 5-040323 (480-207597-4)	4/3/23	15:35 Eastern		Water			X	X		3	
828109-MW-905-8 5-18 5-040323 (480-207597-5)	4/3/23	15:35 Eastern		Water			X	X		3	
828109-MW-EB-01-040323 (480-207597-6)	4/3/23	16:30 Eastern		Water			X	X		3	
828109-IDW-WW-040423 (480-207597-7)	4/4/23	10:15 Eastern		Water			X	X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	4-6-23 1800				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 4/10/23 0840	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 12.0/0.5

HC

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79620 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207597-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/25/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601	PO #			
Phone: 717-656-2300(Tel)	WO #			
Email:				
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#			

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	1633/1633_Biosol_P List of 40 (EPA 1633 Draft Method)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
828109-MW-3-8-18-040423 (480-207597-8)	4/4/23	13:50 Eastern		Water			X	X		3	
828109-IDW-SOIL-040423 (480-207597-9)	4/4/23	08:00 Eastern		Solid					X	1	
828109-EB-02-040423 (480-207597-10)	4/4/23	13:15 Eastern		Water			X	X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4-6-23 1800	TAB			
2						
3					4/10/23 0940	

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 12.0 / 0.5

Ver: 06/08/2021

HC.

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information
Client Contact: William Wert
Company: CDM Smith Inc
Address: 11 British American Blvd Suite 200
City: Latham
State, Zip: NY, 12110
Phone: (607) 239-3964
Email: wertwa@cdmsmith.com
Project Name: CDM Smith - Speedy's Cleaners
Site:

Sampler: JCB / MTH
Phone:
Lab PM: Fischer, Brian J
E-Mail: Brian.Fischer@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:
COC No: 480-183685-38928.1
Page: Page 1 of 1
Job #:
PWSID:
Due Date Requested: 4/14/23
TAT Requested (days): 10
Compliance Project: Δ Yes Δ No
PO #: 110645
WO #:
Project #: 48026213
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None
Z - other (specify)
Other:

480-207489 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSB - Local Method	300.0_28D - Cl/SO4	5310C - TOC	SM4500_S2_F - Sulfide	353.2 - Nitrate/nitrite	2320B - Alk	8260C - TCL VOCs	1010A, 8082A, 3012B, 9045C	1633 -	6010C, 7470A, 9081B, 91	9052A -	9056B, 8270D	Total Number of cont	Special Instructions/Note:
			Preservation Code:				N	N	N	A	CB	N	N		N	N	N	N	N		
828109-MW-9-9-19-040323	4/3/23	15:25	G	Water					X	X	X	X	X							6	Short hold
~~828109-MW-9-9-19-040323-MS~~	~~4/3/23~~	~~15:25~~		~~Water~~																	
~~828109-MW-9-9-19-040323-MSD~~	~~4/3/23~~	~~15:25~~		~~Water~~																	
828109-MW-10-3-8-040323	4/3/23	12:05	G	Water					X	X	X	X	X							6	Short hold
828109-MW-11-3-13-040323	4/3/23	12:08	G	Water					X	X	X	X	X							6	Short hold
				Solid																	
				Water																	

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

Deliverable Requested: I, II, III, IV, Other (specify) Cat B - NYSDEC EDD

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/3/23 18:43	CDM Smith	[signature]	4/4/23 1100	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.1

Ver: 06/08/2021

Appendix D

Low Flow Purge Forms

- *2021 Low Flow Purge Forms*
- *2023 Low Flow Purge Forms*

2021 Low Flow Purge Forms

LOW FLOW SAMPLING SHEETS

SITE NAME: Sleedy's Cleaners

DATE: 6/21/21 WELL #: MW-2

SAMPLE TIME: 1430, MS-1435, MSD-1435 DEPTH OF PUMP:

WEATHER CONDITIONS: Cloudy, 80°F SAMPLERS: SM

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
1325					17.5	6.79	55.9	2.154	1.46	7.62
1330					17.3	6.81	57.3	1.947	1.03	2.29
1335					17.2	6.83	54.2	1.927	0.89	1.44
1840					17.2	6.84	53.1	1.908	0.81	2.06
1345					17.3	6.83	54.1	1.897	0.76	3.45
1350					17.3	6.84	55.3	1.892	0.72	5.15
1355					17.2	6.84	55.3	1.888	0.69	7.04
1400					17.2	6.84	54.9	1.884	0.66	9.44
1405					17.2	6.85	55.5	1.883	0.65	10.05
*				Sample @ 1430						
				MS sample @ 1435						
				MSD sample @ 1440						

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

* sampling delayed due to severe weather

LOW FLOW SAMPLING SHEETS

SITE NAME: _____

DATE: 6/22/21 **WELL #:** MW-2B

SAMPLE TIME: 16:40 **DEPTH OF PUMP:** 13' BGS approx.

WEATHER CONDITIONS: Sunny, 64°F **SAMPLERS:** E. Biancamello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
15:50		12.59'		—	15.0	6.74	-71.5	2.882	0.88	54.84
15:55		12.99'	0.40	0.40'	16.3	6.77	-74.8	3.054	2.11	42.87
16:00		13.00'		0.01'	17.1	6.79	-67.6	3.154	2.95	32.67
16:05		13.14'	SURGE	0.14'	15.5	6.77	-66.7	3.256	2.05	17.81
16:10		13.32'	↓	0.22'	15.5	6.81	-66.1	3.422	2.83	27.70
16:15		14.28		0.96	15.5	6.83	-66.7	3.529	2.01	20.20
16:20		14.29		0.01	15.5	6.85	-66.9	3.529	2.03	19.85
16:25		14.29		—	15.6	6.84	-66.9	3579	2.08	19.72
16:30		14.29		—	15.6	6.85	-67.2	3.581	2.09	18.96
16:35		14.30		0.01	15.6	6.85	-69.1	3.586	2.09	18.72
				SAMPLE AT		16:40				

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

* running Dry *

start time 15:45
DTW = 11.6' BGS approx.

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedys Cleaners

DATE: 6/22/2021 WELL #: MW-3

SAMPLE TIME: 13:55 DEPTH OF PUMP: 17' BGS approx.

WEATHER CONDITIONS: Overcast, 55°F SAMPLERS: E. Biancaniello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
12:55		12.04'		—	13.9	6.87	-61.6	2.350	1.02	162.73
13:00		—		—	13.6	6.78	-60.3	2.582	0.69	51.92
13:05		—		—	13.6	6.80	-62.4	2.771	0.56	18.01
13:10		—		—	13.5	6.81	-62.9	2.808	0.55	14.32
13:15		—		—	13.2	6.81	-63.6	2.862	0.50	11.59
13:20		—		—	13.3	6.81	-63.7	2.881	0.49	11.62
13:25		—		—	13.6	6.81	-64.1	2.915	0.48	11.40
13:30		—		—	13.4	6.82	-64.5	2.937	0.46	10.83
13:35		—		—	13.5	6.82	-64.7	2.940	0.47	4.31
13:40		—		—	13.5	6.82	-65.0	2.978	0.47	4.03
13:45		—		—	13.5	6.82	-65.0	2.980	0.47	4.29
13:50		12.16'		0.14'	13.5	6.82	-64.9	2.940	0.47	4.13

Sample at 1355

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

* cant fit WL meter down well, only took before and after *

Start time 12:50
DTW: 12.05' BGS

*

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedy Cleaners

DATE: 6/21/2021 WELL #: MW-3B

SAMPLE TIME: 13:00 DEPTH OF PUMP: 14' BGS approx.

WEATHER CONDITIONS: Sunny, 85°F SAMPLERS: E. Biancaniello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
12:00	.18	11.79'	135	—	17.7	6.95	76.1	0.772	1.99	10.11
12:05	0.36	11.99'	135	0.20	17.5	6.94	-22.9	0.736	1.30	14.31
12:10	0.54	12.05	135	0.06	17.8	6.92	-54.9	0.799	1.14	8.78
12:15	0.72	12.15	135	0.10	18.9	6.92	-83.5	0.839	~~1.25 83.9~~	24.39
12:20	0.90	12.20	135	0.05	17.7	6.92	-84.3	0.842	1.13	26.67
12:25	1.09	12.50	surge	0.30	17.7	6.93	-82.7	0.841	1.13	27.95
12:30	1.26	12.65	135	0.15	16.2	6.93	-82.7	0.867	0.87	6.09
12:35	1.44	12.96	115	0.31	16.5	6.92	-87.4	0.871	0.80	5.13
12:40	2.01	13.15	115	0.19	17.1	6.93	-97.1	0.886	0.77	~~5.06~~ 4.65
12:45	2.10	13.2	115	0.05	17.8	6.94	-98.9	0.899	0.76	4.51
12:50	2.15	13.35	115	0.15	17.7	6.93	-98.9	0.906	0.76	3.89
12:55	2.20	13.90	115	0.05	17.8	6.93	-99.1	0.909	0.76	4.09

Sample 13:00

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

1607 in 3.5 min

Start pumping: 11:55
DTW = 10.75' BGS

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedys Cleaners

DATE: 6/22/2021 WELL #: MW-5

SAMPLE TIME: 1215 DEPTH OF PUMP: 13' BGS approx

WEATHER CONDITIONS: overcast, 55°F SAMPLERS: E. Biancanello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
1100	0.15	12.01	1/2	—	12.7	7.25	87.9	2.060	6.25	127.18
1105	0.30	12.61	↓	0.60	12.8	7.23	92.4	2.074	6.10	~~147~~. 28
1110	0.45	12.71		0.10	12.7	7.17	97.2	2.172	5.56	41.40
1115	0.60	12.81		0.10	12.6	7.11	103.5	2.200	4.64	37.46
1120	0.75	12.88		0.07	12.6	7.11	103.7	2.203	4.60	36.96
1125	0.90	12.88		—	12.6	7.10	104.9	2.212	4.43	37.03
1130	1.05	12.90		0.02	12.8	7.11	103.2	2.200	4.51	36.93
1135	1.20	12.94		0.04	12.7	7.15	101.3	2.272	4.48	34.92
1140	1.35	12.96		0.02	12.8	7.12	120.1	2.277	3.25	27.67
1145	1.50	12.99		0.03	12.8	7.10	123.3	2.227	2.94	28.25
1150	1.75	13.00		0.01	12.7	7.10	124.6	2.313	2.66	25.72
1155	1.90	13.01	↓	0.01	12.7	7.10	125.0	2.310	2.63	24.50

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

approx. 2.3 gallons purged

Start time: 1055

DTW = 12.01' BGS

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedys Cleaners

DATE: 6/22/2021 WELL #: MW-5

SAMPLE TIME: 12:15 DEPTH OF PUMP: 13' bgs approx

WEATHER CONDITIONS: Overcast, 55 °F SAMPLERS: E. Blancaniello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
12:00	2.05	13.01	↓	—	12.7	6.97	126.9	2.308	2.64	9.90
12:05	2.20	13.01	↓	—	12.7	6.97	127.0	2.305	2.64	9.27
12:10	2.35	13.01	↓	—	12.8	6.97	127.1	2.304	2.65	9.23
		—	—	Sample at		12:15	—	—		

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedy Cleaners

DATE: 6/22/2021 WELL #: MW-6

SAMPLE TIME: 09:05 DEPTH OF PUMP: 16' BGS approx

WEATHER CONDITIONS: Overcast, 55°F SAMPLERS: E. Biancaniello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
8:15	0.20	12.24'	160	—	12.8	6.99	8.0	1.684	0.97	30.86
8:20	0.37	12.28'	157	0.04	12.8	6.97	-33.9	1.687	0.76	21.13
8:25	0.54	12.28'	157	—	12.9	6.97	-41.1	1.681	0.68	38.79
8:30	0.71	12.28	157	—	12.8	6.96	-43.2	1.682	0.68	36.76
8:35	0.87	12.30'	157	0.02	12.8	6.96	-47.6	1.682	0.63	33.87
8:40	1.04	12.30'	157	—	12.9	6.95	-51.7	1.687	0.60	15.67
8:95	1.11	12.32'	157	0.02	12.8	6.95	-53.9	1.687	0.60	14.37
8:50	1.28	12.32'	157	—	12.9	6.94	-55.2	1.686	0.58	14.45
8:55	1.45	12.32'	157	—	12.9	6.93	-56.2	1.681	0.58	14.31
9:00	1.62	12.33'	157	0.01	12.9	6.93	-57.1	1.688	0.56	14.26
				Sample at 09:05						

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

0.17 gal per 5 min

802 in 1 min 45 sec.
1 min 30 sec

DTW: 11.60' BGS
Start time: 8:10

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedy Cleaners

DATE: 6/21/2021 WELL #: MW-7

SAMPLE TIME: 14:50 DEPTH OF PUMP: 16' bgs approx.

WEATHER CONDITIONS: Sunny, 85° F SAMPLERS: E. Blancaflor

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
13:40	0.31	10.54'	237	—	15.9	6.76	-69.8	1.541	0.43	206.77
13:45	0.62	10.60'	237	0.01	16.0	6.75	-61.8	2.609	0.55	223.56
13:50	0.93	10.60'	237	—	15.9	6.75	-55.0	4.260	0.47	137.59
13:55	1.24	10.60'	237	—	15.3	6.75	-51.4	5.071	0.46	102.57
14:00	1.55	10.61'	237	0.01	15.4	6.77	-43.8	6.036	0.42	39.39
14:05	1.86	10.61'	237	—	15.2	6.78	-38.8	6.589	0.40	26.67
14:10	2.17	10.61'	237	—	15.3	6.75	-33.3	6.623	0.44	26.47
14:15	2.48	10.63'	237	0.02	15.3	6.76	-35.7	6.827	0.36	24.29
14:20	2.79	10.63'	237	—	14.3	6.77	-34.5	6.941	0.58	17.69
14:25	3.01	10.63'	237	—	15.1	6.84	-21.0	5.897	0.53	~~9.47~~ 9.47'
14:30	3.34	10.63'	237	—	15.1	6.81	-18.9	7.203	0.52	9.74
14:35	3.65	10.63'	237	—	14.9	6.80	-19.8	7.189	0.44	9.34

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

16 oz in 2 min

Start time 13:35
DTW = 10.55 bgs

LOW FLOW SAMPLING SHEETS

SITE NAME: Speedy's Cleaners

DATE: 6/21/2021 WELL #: MW-7

SAMPLE TIME: 14:50 DEPTH OF PUMP: 16' BGS approx

WEATHER CONDITIONS: Sunny, 85° F SAMPLERS: E. Blancaniello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
14:40	3.91	10.63'	237	—	14.9	6.82	-23.2	7.836	0.40	9.17
14:45	4.22	10.63'	257	-	14.9	6.81	-23.2	7.787	0.40	9.21
				Sample at 14:50						

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW SAMPLING SHEETS

SITE NAME: Specialty Cleaners

DATE: 6/21/2021 WELL #: MW - 8

SAMPLE TIME: 17:15 DEPTH OF PUMP: 16' BGS approx.

WEATHER CONDITIONS: Rain (heavy), 80° F SAMPLERS: E. Biancaniello

TIME	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN (FEET)	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TURBIDITY NTUs (+/- 10%)
16:35	0.18	10.85	115	—	13.5	6.97	66.5	6.90	0.84	90.93
16:40	0.36	10.85		—	14.3	6.93	45.6	6.950	0.68	38.56
16:45	0.54	10.86		—	14.3	6.93	38.8	6.938	0.56	27.85
16:50	0.72	10.86		0.01	14.3	6.93	35.9	6.950	0.52	24.62
16:55	0.90	10.87		0.01	14.3	6.92	35.3	6.947	0.52	25.93
17:00	1.08	10.89		0.02	14.3	6.92	34.2	6.949	0.51	23.28
17:05	1.26	10.89		—	14.3	6.92	33.7	6.960	0.49	24.20
17:10	1.44	10.89		—	14.3	6.92	31.7	6.961	0.49	24.20
17:15	1.62	10.89		—	14.3	6.92	31.6	6.962	0.49	23.98
		—	—	sample at 17:15			—	—		

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

start time 16:30

DTW = 10.80' BGS

2023 Low Flow Purge Forms

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

DATE: 04-04-23

SAMPLERS: Hoffman

WELL #: MW-3

DEPTH OF PUMP INTAKE: ≈16' Water was ≈ 11 ft BTOC using 1/8 ft tape close ft TIC or ft BGS (circle one)

WEATHER CONDITIONS: Overcast - 45°F

SCREENED/OPEN BOREHOLE INTERVAL: 3 ft ft TIC or ft BGS (circle one)

SAMPLE ID: F24109-MW-3-8-18 SAMPLE TIME: SAMPLE FLOW RATE: ml/minute

CLP ID: 040423

Instrument Type/Model: Complete and/or Circle at right YSI Model # Pro DSS / Horiba U-22 (circle one) Other (specify)

Instrument:

CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle one)	ft TIC / ft BGS (circle one)	Units: L/min	ft TIC / ft BGS (circle one)	SU	S/cm, mS/cm / or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
12:00	0	11.31	0.20	—	—	—	—	—	—	—
12:05	1.0	11.89	0.20	0.58	6.43	1.540	1.18	11.4	156.8	58.5
12:10	2.0	11.92	0.20	0.03	6.59	1.805	0.69	11.5	98.0	15.8
12:15	3.0	11.89	0.20	-0.05	6.69	1.920	0.47	4.6	42.5	7.22
12:20	4.0	11.93	0.20	0.06	6.72	1.957	0.44	11.8	20.0	5.76
12:25	5.0	11.97	0.20	0.04	6.76	2.005	0.40	11.7	01.0	4.72
12:30	6.0	11.980	0.20	-0.07	6.77	2.031	0.34	11.7	-12.0	4.57
12:35	7.0	11.89	0.20	-0.03	6.80	2.066	0.35	11.7	-23.0	4.38
12:40	8.0	11.89	0.20	0.02	6.80	2.026	0.34	11.6	-30.6	4.25

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

* 12:30 samples collected

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs

Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm

TIC = Top of Inner Casing BGS = Below Ground Surface

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

DATE: 4-3-23 WELL #: MW-5

SAMPLERS: Hoffman DEPTH OF PUMP INTAKE: 17.5 ft TIC or ft BGS (circle one)

WEATHER CONDITIONS: Cloudy SCREENED/OPEN BOREHOLE INTERVAL: 7.5-17.5 ft TIC or ft BGS (circle one)

SAMPLE ID: 230403-MW-5-5.5-17.5 SAMPLE TIME: SAMPLE FLOW RATE: 0.5 ml/minute

CLP ID: 040323

Instrument Type/Model: Complete and/or Circle at right				YSI Model # Prodo / Horiba U-22 (circle one) Other (specify)						Instrument:
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle one)	ft TIC / ft BGS (circle one)	Units: L/min	ft TIC / ft BGS (circle one)	SU	S/cm, mS/cm, or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
14:58	0	11.15	0	—	—	—	—	—	—	—
15:03	1.0	11.47	0.20	0.32	6.82	1.617	2.99	10.3	123.6	17.7
15:08	2.0	11.59	0.20	0.12	6.76	1.614	2.73	10.3	129.3	11.4
15:13	3.0	11.70	0.20	0.11	6.74	1.619	2.59	10.3	134.2	9.63
15:18	4.0	11.75	0.20	0.05	6.72	1.625	2.47	10.2	137.7	11.21
15:23	5.0	11.72	0.20	-0.03	6.72	1.626	2.44	10.2	139.5	10.7
15:25 Samples collected.										

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs

Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm

TIC = Top of Inner Casing BGS = Below Ground Surface

* HACH Quanta used. Turbidity on Prodo DO unstable

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

DATE: 4/3/24 WELL #: MW-9

SAMPLERS: JCG DEPTH OF PUMP INTAKE: 14' ft TIC or ft BGS (circle one)

WEATHER CONDITIONS: Cloudy 62° wind 12mph ↙ SCREENED/OPEN BOREHOLE INTERVAL: 9'-19' ft TIC or ft BGS (circle one)

SAMPLE ID: 828109-MW-9-9-19-040324 SAMPLE TIME: 15:25 SAMPLE FLOW RATE: 200 ml/minute

CLP ID:

Instrument Type/Model: Complete and/or Circle at right				YSI Model # 5 / Horiba U-22 (circle one) Other (specify)						Instrument:
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle one)	ft TIC / ft BGS (circle one)	Units:	ft TIC / ft BGS (circle one)	SU	S/cm, mS/cm / or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
14:35		10.36	0.25 L/m		6.93	4.65		11.8	115.3	20.3
14:40		10.35	0.25		6.93	4.56		11.9	117.5	25.2
14:45		10.35	0.25		7.01	4.449		11.9	119.3	24.8
14:50		10.35	0.21		7.04	4.307		12.1	120.6	22.1
14:55		10.35	0.21		7.05	4.209		12.1	123.7	21.3
15:00		10.35	0.23		7.06	4.191		12.1	125.8	18.1
15:05		10.35	0.23		7.05	4.094		12.1	128.3	18.0
15:10		10.37	0.25		7.06	4.059		12.1	130.3	14.5
15:15		10.36	0.21		7.08	4.030		12.1	133.1	13.9

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs

Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm

TIC = Top of Inner Casing BGS = Below Ground Surface

15:20	10.30	0.20	7.07	4.209		12.1	134.7	14.8

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

DATE: 4/3/13 WELL #: MW-10

SAMPLERS: Hoffman DEPTH OF PUMP INTAKE: 5.5 (ft TIC) or ft BGS (circle one)

WEATHER CONDITIONS: Sunny SCREENED/OPEN BOREHOLE INTERVAL: 3 to 8 (ft TIC) or ft BGS (circle one)

SAMPLE ID: 828109-MW-10-3-8-040323 SAMPLE TIME: SAMPLE FLOW RATE: ml/minute

CLP ID:

Instrument Type/Model: Complete and/or Circle at right				YSI Model # PRO DSS / Horiba U-22 (circle one) Other (specify)_____						Instrument:
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle one)	ft TIC / ft BGS (circle one)	Units: L/min	ft TIC / ft BGS (circle one)	SU	S/cm, mS/cm / or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
11:18	0	1.42	0.20	—	—	—	—	—	—	—
11:23	1.0	1.72	0.20	0.30	7.08	1.890	5.65	7.1	178.0	25.5
11:28	2.0	1.70	0.20	*-0.02	7.06	1.892	5.60	7.3	176.2	20.2
11:33	3.0	1.69	0.20	-0.01	7.06	1.893	5.68	7.3	175.4	17.4
11:38	4.0	1.69	0.20	0.00	7.06	1.893	5.68	7.3	175.1	15.5
11:43	5.0	1.67	0.20	-0.02	7.06	1.891	5.77	7.4	175.1	23.0
11:48	6.0	1.69	0.20	0.02	7.05	1.889	5.75	7.4	175.0	12.4
11:53	7.0	1.69	0.20	0.00	7.06	1.895	5.86	7.5	175.0	15.0
11:58	8.0	1.69	0.20	0.00	7.06	1.893	5.79	7.6	174.8	16.0

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

12:05 samples collected

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs

* Ferrous Iron ≈ 0.04 mg/L

Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm

TIC = Top of Inner Casing BGS = Below Ground Surface

* used HACH 2000. Turbidity on YSI PRODSS was inaccurate - jumped from 10 NTU to 125 NTU to 800 NTU to 2000 NTU

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

DATE: 4/3/23 **WELL #:** MW-11

SAMPLERS: JCG **DEPTH OF PUMP INTAKE:** 8' **ft TIC or ft BGS (circle one)**

WEATHER CONDITIONS: Cloudy 62° wind 9 mph ↙ **SCREENED/OPEN BOREHOLE INTERVAL:** 3'-13' **ft TIC or ft BGS (circle one)**

SAMPLE ID: 828109 - MW-11-3-13-040323 **SAMPLE TIME:** 12:08 **SAMPLE FLOW RATE:** 200 **ml/minute**

CLP ID:

Instrument Type/Model: Complete and/or Circle at right				YSI Model # 5 / Horiba U-22 (circle one) Other (specify)_____						Instrument:
CURRENT TIME	**VOLUME PURGED**	**DEPTH TO WATER**	**FLOW RATE**	**DRAWDOWN** (± 0.3 FT)	**pH** (± 0.1 SU)	**SPECIFIC CONDUCTIVITY** (± 3%)	**DISSOLVED OXYGEN** (± 10%)	**TEMP.** (± 10%)	**REDOX POTENTIAL** (± 10 mV)	**TURBIDITY** (± 10%)
24-Hour	gallons / liters (circle one)	ft TIC / ft BGS (circle one)	Units:	ft TIC / ft BGS (circle one)	SU	S/cm, mS/cm / or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
11:03		5.09		-	6.66	4.128		7.3	-35.3	67.1
11:08		5.48	0.2 L/m	-0.39	6.68	4.188	N/A	7.6	-37.9	45.0
11:13		58.25	0.2 L/m	+0.23	6.70	4.251		7.9	-38.9	43.7
11:18		58.15	0.2 L/m	+0.10	6.72	4.231		7.8	-38.6	51.5
11:23		5.15	0.2	0	6.70	4.237		7.8	-39.0	44.4
11:28		5.16	0.2	-0.01	6.73	4.235		7.8	-38.5	35.5
11:33		5.2	0.25	-0.04	6.73	4.235		7.9	-37.9	30.1
11:38		5.22	0.25	-0.02	6.72	4.258		7.9	-37.1	34.3
11:43		5.23	0.20	-0.01	6.72	4.263	↓	7.9	-37.4	24.4

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs

Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm

TIC = Top of Inner Casing BGS = Below Ground Surface

LOW FLOW GROUNDWATER SAMPLING PURGE RECORD

DATE: 4/3/23 WELL #: MW #11

SAMPLERS: JCG DEPTH OF PUMP INTAKE: 8' ft TIC or ft BGS (circle one)

WEATHER CONDITIONS: SCREENED/OPEN BOREHOLE INTERVAL: 3'-13' ft TIC or ft BGS (circle one)

SAMPLE ID: SAMPLE TIME: 12:08 SAMPLE FLOW RATE: 200 ml/minute

CLP ID:

Instrument Type/Model: Complete and/or Circle at right				YSI Model # 5 / Horiba U-22 (circle one) Other (specify)_____						Instrument:
CURRENT TIME	VOLUME PURGED	DEPTH TO WATER	FLOW RATE	DRAWDOWN (± 0.3 FT)	pH (± 0.1 SU)	SPECIFIC CONDUCTIVITY (± 3%)	DISSOLVED OXYGEN (± 10%)	TEMP. (± 10%)	REDOX POTENTIAL (± 10 mV)	TURBIDITY (± 10%)
24-Hour	gallons / liters (circle one)	ft TIC / ft BGS (circle one)	Units:	ft TIC / ft BGS (circle one)	SU	S/cm, mS/cm°/ or µS/cm (circle one)	mg/L (not %)	Units: °C	mV	NTUs
11:48		5.19	0.20	+0.04	6.73	4.251	NA	8.0	-36.9	21.7
11:53		5.20	0.19	-0.01	6.83	4.276		8.0	-36.2	19.8
11:58		5.20	0.20	0	6.71	4.284		8.0	-36.2	16.8
12:03		5.20	0.20	0	6.73	4.300		8.0	-34.3	17.2
12:08	3.70 gal	5.21	0.20	-0.01	6.73	4.314		8.0	-34.6	16.9
Excess Water	1.78									

Drawdown is not to exceed 0.3 feet. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Typical values: DO = 0.3 - 10 mg/L Redox Potential = -100 - +600 mV Turbidity = 0 - >500 NTUs

Spec. Conductivity (µS/cm) = 0.01 - 5,000; up to 10,000 in industrial, ~55,000 in high salt content water. Note: 1,000 µS/cm = 1 mS/cm

TIC = Top of Inner Casing BGS = Below Ground Surface

Appendix E

Laboratory Data Reports

- *2021 Laboratory Data Reports*
- *2023 Laboratory Data Reports*

2021 Laboratory Data Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-185607-1
Client Project/Site: Speedy's Cleaners #828109
Revision: 1

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Authorized for release by:
9/28/2021 9:37:51 AM
Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

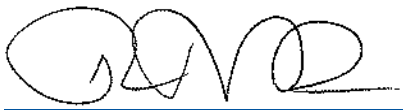
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Ryan VanDette
Project Manager II
9/28/2021 9:37:51 AM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 10
Surrogate Summary 26
Isotope Dilution Summary 28
QC Sample Results 29
QC Association Summary 57
Lab Chronicle 61
Certification Summary 64
Method Summary 65
Sample Summary 66
Chain of Custody 67
Receipt Checklists 70

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-185607-1
Project/Site: Speedy's Cleaners #828109

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

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

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Job ID: 480-185607-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-185607-1

Comments
This report has been revised to include additional ICV data for semivolatiles.

No additional comments.

Receipt
The samples were received on 6/4/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-584982 recovered above the upper control limit for Chloroethane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCVIS were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 828109-BS-911-13-14-060221 (480-185607-5).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-585031 and analytical batch 480-584982 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample was impacted: 828109-BS-911-13-14-060221 (480-185607-5).

Method 8260C: The following samples were analyzed using medium level soil analysis and were diluted due to the nature of the sample matrix: 828109-BS-13-10-12-060121 (480-185607-1), 828109-BS-14-10-11-060121 (480-185607-2), 828109-BS-12-14-15-060221 (480-185607-3), 828109-BS-11-13-14-060221 (480-185607-4), 828109-BS-11-13-14-060221 (480-185607-4[MS]) and 828109-BS-11-13-14-060221 (480-185607-4[MSD]). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color and appearance: 828109-BS-11-13-14-060221 (480-185607-4), 828109-BS-11-13-14-060221 (480-185607-4[MS]), 828109-BS-11-13-14-060221 (480-185607-4[MSD]) and 828109-BS-911-13-14-060221 (480-185607-5). Elevated reporting limits (RL) are provided.

Method 8270D: The following compound has been spiked at a level above the upper range of the initial calibration: Benzaldehyde. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-584900 and analytical batch 480-585163 recovered within acceptable limits for this analyte and has been qualified with an "E" flag. (LCS 480-584900/2-A)

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

GC Semi VOA
Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: 828109-BS-11-13-14-060221 (480-185607-4[MS]). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for cis-Chlordane for the following sample: 828109-BS-11-13-14-060221 (480-185607-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-584987 and analytical batch 480-584953 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. 828109-BS-11-13-14-060221 (480-185607-4)

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-584987 and analytical batch

Job ID: 480-185607-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

480-584953 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.
828109-BS-11-13-14-060221 (480-185607-4)

Method 8081B: Surrogate recovery for the following samples were outside control limits: 828109-BS-11-13-14-060221 (480-185607-4[MS]) and 828109-BS-11-13-14-060221 (480-185607-4[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for cis-Chlordane for the following sample: 828109-BS-911-13-14-060221 (480-185607-5). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

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

Metals
Method 6010C: The continuing calibration blank (CCB 480-585401/51) contained Total Manganese above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples 828109-BS-11-13-14-060221 (480-185607-4[MS]), 828109-BS-11-13-14-060221 (480-185607-4[MSD]) and 828109-BS-911-13-14-060221 (480-185607-5) was not performed.

Method 6010C: The low level continuing calibration verification (CCVL 480-585401/52) recovered above the upper control limit for Total Iron and Manganese. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples 828109-BS-11-13-14-060221 (480-185607-4[MS]), 828109-BS-11-13-14-060221 (480-185607-4[MSD]) and 828109-BS-911-13-14-060221 (480-185607-5) was not performed.

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

LCMS
Method 537 (modified): The method blank for preparation batch 200-167997 and analytical batch 200-168061 contained Perfluorobutanesulfonic acid (PFBS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with sample 828109-BS-11-13-14-060221 (480-185607-4) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

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

Organic Prep
Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: 828109-BS-11-13-14-060221 (480-185607-4), 828109-BS-11-13-14-060221 (480-185607-4[MS]) and 828109-BS-11-13-14-060221 (480-185607-4[MSD]).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Client Sample ID: 828109-BS-13-10-12-060121 — Lab Sample ID: 480-185607-1

No Detections.

Client Sample ID: 828109-BS-14-10-11-060121 — Lab Sample ID: 480-185607-2

No Detections.

Client Sample ID: 828109-BS-12-14-15-060221 — Lab Sample ID: 480-185607-3

No Detections.

Client Sample ID: 828109-BS-11-13-14-060221 — Lab Sample ID: 480-185607-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	590	J	960	96	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	750	J F1	960	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		960	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	630	J	960	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	350	J	960	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	740	J F1	960	220	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1400	F1	960	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene	150	J	960	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	570	J	960	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	720	J F1	960	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1100	F1	960	110	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	1.1	J B F1 F2	1.9	0.45	ug/Kg	1	☼	8081B	Total/NA
cis-Chlordane	14	F1 F2	1.9	0.96	ug/Kg	1	☼	8081B	Total/NA
trans-Chlordane	11	F1 F2	1.9	0.61	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.7	J F1 F2	1.9	0.39	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.015	J I B	0.23	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.021	J	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.18	J	0.23	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	10300		12.4	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.6		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	47.1		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.37		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.15	J	0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	29100	F2	61.8	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.8		0.62	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.2		0.62	0.062	mg/Kg	1	☼	6010C	Total/NA
Copper	28.0	F1	1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	14500		12.4	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	23.1	F1	1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	13100	F2	24.7	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	393	B F2	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	13.1		6.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1580	F1	37.1	24.7	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.61	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Sodium	161	J F2	173	16.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.1		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	48.5	F1 F2	2.5	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 828109-BS-911-13-14-060221 — Lab Sample ID: 480-185607-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.2	J vs	6.0	2.7	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 828109-BS-911-13-14-060221 (Continued) — Lab Sample ID: 480-185607-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11	vs	6.0	0.80	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	380	J	1000	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	510	J	1000	250	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2500		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2400		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	3700		1000	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1400		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1400		1000	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole	270	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2700		1000	230	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	510	J	1000	180	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	5900		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	260	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1400		1000	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	2800		1000	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene	4200		1000	120	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDT	0.91	J B	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
cis-Chlordane	3.4		2.0	1.0	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	1.0	J B	2.0	0.50	ug/Kg	1	☼	8081B	Total/NA
trans-Chlordane	2.8		2.0	0.65	ug/Kg	1	☼	8081B	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.011	J B	0.23	0.011	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.017	J	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.23	0.019	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	9640		12.7	5.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.3		2.5	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	48.8		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.40		0.25	0.036	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.23	J	0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Calcium	10500		63.5	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.8		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.1		0.63	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	13.8		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	15400	^+	12.7	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	14.5		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	7240		25.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	793	B ^2 ^+	0.25	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.6		6.3	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	1930		38.1	25.4	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.99	J	5.1	0.51	mg/Kg	1	☼	6010C	Total/NA
Sodium	161	J	178	16.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.0		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	76.3		2.5	0.81	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-185607-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Client Sample ID: 828109-BS-13-10-12-060121
Date Collected: 06/01/21 12:15
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-1
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1300	370	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,1,2,2-Tetrachloroethane	ND		1300	220	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,1,2-Trichloroethane	ND		1300	280	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1300	660	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,1-Dichloroethane	ND		1300	410	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,1-Dichloroethene	ND		1300	460	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,2,4-Trichlorobenzene	ND		1300	500	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,2-Dibromo-3-Chloropropane	ND		1300	660	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,2-Dichlorobenzene	ND		1300	340	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,2-Dichloroethane	ND		1300	540	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,2-Dichloropropane	ND		1300	220	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,3-Dichlorobenzene	ND		1300	350	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,4-Dichlorobenzene	ND		1300	190	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
2-Butanone (MEK)	ND		6600	3900	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
2-Hexanone	ND		6600	2700	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
4-Methyl-2-pentanone (MIBK)	ND		6600	430	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Acetone	ND		6600	5500	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Benzene	ND		1300	250	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Bromodichloromethane	ND		1300	270	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Bromoform	ND		1300	660	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Bromomethane	ND		1300	290	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Carbon disulfide	ND		1300	600	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Carbon tetrachloride	ND		1300	340	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Chlorobenzene	ND		1300	180	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Dibromochloromethane	ND		1300	640	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Chloroethane	ND		1300	280	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Chloroform	ND		1300	910	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Chloromethane	ND		1300	320	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
cis-1,2-Dichloroethene	ND		1300	370	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
cis-1,3-Dichloropropene	ND		1300	320	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Cyclohexane	ND		1300	300	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Dichlorodifluoromethane	ND		1300	580	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Ethylbenzene	ND		1300	390	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
1,2-Dibromoethane	ND		1300	230	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Isopropylbenzene	ND		1300	200	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Methyl acetate	ND		6600	630	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Methyl tert-butyl ether	ND		1300	500	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Methylcyclohexane	ND		1300	620	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Methylene Chloride	ND		1300	260	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Styrene	ND		1300	320	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Tetrachloroethene	ND		1300	180	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Toluene	ND		1300	360	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
trans-1,2-Dichloroethene	ND		1300	310	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
trans-1,3-Dichloropropene	ND		1300	130	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Trichloroethene	ND		1300	370	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Trichlorofluoromethane	ND		1300	620	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Vinyl chloride	ND		1300	450	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10
Xylenes, Total	ND		2700	740	ug/Kg	☼	06/14/21 00:48	06/14/21 23:39	10

Client Sample ID: 828109-BS-13-10-12-060121
Lab Sample ID: 480-185607-1
Date Collected: 06/01/21 12:15
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 81.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*50 - 149*	*06/14/21 00:48*	*06/14/21 23:39*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*	*06/14/21 00:48*	*06/14/21 23:39*	*10*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*	*06/14/21 00:48*	*06/14/21 23:39*	*10*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*06/14/21 00:48*	*06/14/21 23:39*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	66	ug/Kg	☼	06/10/21 15:14	06/14/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*97*		*53 - 120*	*06/10/21 15:14*	*06/14/21 02:00*	*1*
p-Terphenyl-d14 (Surr)	*106*		*79 - 130*	*06/10/21 15:14*	*06/14/21 02:00*	*1*
Phenol-d5 (Surr)	*90*		*54 - 120*	*06/10/21 15:14*	*06/14/21 02:00*	*1*
2-Fluorophenol (Surr)	*87*		*52 - 120*	*06/10/21 15:14*	*06/14/21 02:00*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*54 - 120*	*06/10/21 15:14*	*06/14/21 02:00*	*1*
2-Fluorobiphenyl	*103*		*60 - 120*	*06/10/21 15:14*	*06/14/21 02:00*	*1*

Client Sample ID: 828109-BS-14-10-11-060121
Lab Sample ID: 480-185607-2
Date Collected: 06/01/21 15:40
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		500	140	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,1,2,2-Tetrachloroethane	ND		500	81	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,1,2-Trichloroethane	ND		500	100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,1-Dichloroethane	ND		500	150	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,1-Dichloroethene	ND		500	170	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,2,4-Trichlorobenzene	ND		500	190	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,2-Dibromo-3-Chloropropane	ND		500	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,2-Dichlorobenzene	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,2-Dichloroethane	ND		500	200	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,2-Dichloropropane	ND		500	81	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,3-Dichlorobenzene	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,4-Dichlorobenzene	ND		500	70	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
2-Butanone (MEK)	ND		2500	1500	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
2-Hexanone	ND		2500	1000	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
4-Methyl-2-pentanone (MIBK)	ND		2500	160	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Acetone	ND		2500	2100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Benzene	ND		500	95	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Bromodichloromethane	ND		500	100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Bromoform	ND		500	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Bromomethane	ND		500	110	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Carbon disulfide	ND		500	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Carbon tetrachloride	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Chlorobenzene	ND		500	66	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Dibromochloromethane	ND		500	240	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Chloroethane	ND		500	100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Chloroform	ND		500	340	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Chloromethane	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4

Client Sample ID: 828109-BS-14-10-11-060121

Lab Sample ID: 480-185607-2
Date Collected: 06/01/21 15:40
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		500	140	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
cis-1,3-Dichloropropene	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Cyclohexane	ND		500	110	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Dichlorodifluoromethane	ND		500	220	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Ethylbenzene	ND		500	150	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
1,2-Dibromoethane	ND		500	87	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Isopropylbenzene	ND		500	75	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Methyl acetate	ND		2500	240	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Methyl tert-butyl ether	ND		500	190	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Methylcyclohexane	ND		500	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Methylene Chloride	ND		500	99	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Styrene	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Tetrachloroethene	ND		500	67	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Toluene	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
trans-1,2-Dichloroethene	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
trans-1,3-Dichloropropene	ND		500	49	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Trichloroethene	ND		500	140	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Trichlorofluoromethane	ND		500	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Vinyl chloride	ND		500	170	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4
Xylenes, Total	ND		1000	280	ug/Kg	☼	06/14/21 00:48	06/15/21 00:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*50 - 149*	*06/14/21 00:48*	*06/15/21 00:02*	*4*
1,2-Dichloroethane-d4 (Surr)	*95*		*53 - 146*	*06/14/21 00:48*	*06/15/21 00:02*	*4*
4-Bromofluorobenzene (Surr)	*99*		*49 - 148*	*06/14/21 00:48*	*06/15/21 00:02*	*4*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*06/14/21 00:48*	*06/15/21 00:02*	*4*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	62	ug/Kg	☼	06/10/21 15:14	06/14/21 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*	*06/10/21 15:14*	*06/14/21 02:24*	*1*
p-Terphenyl-d14 (Surr)	*102*		*79 - 130*	*06/10/21 15:14*	*06/14/21 02:24*	*1*
Phenol-d5 (Surr)	*83*		*54 - 120*	*06/10/21 15:14*	*06/14/21 02:24*	*1*
2-Fluorophenol (Surr)	*77*		*52 - 120*	*06/10/21 15:14*	*06/14/21 02:24*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*54 - 120*	*06/10/21 15:14*	*06/14/21 02:24*	*1*
2-Fluorobiphenyl	*90*		*60 - 120*	*06/10/21 15:14*	*06/14/21 02:24*	*1*

Client Sample ID: 828109-BS-12-14-15-060221

Lab Sample ID: 480-185607-3
Date Collected: 06/02/21 08:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		500	140	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,1,2,2-Tetrachloroethane	ND		500	81	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,1,2-Trichloroethane	ND		500	110	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,1-Dichloroethane	ND		500	150	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,1-Dichloroethene	ND		500	170	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Client Sample ID: 828109-BS-12-14-15-060221
Date Collected: 06/02/21 08:30
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-3
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		500	190	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,2-Dibromo-3-Chloropropane	ND		500	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,2-Dichlorobenzene	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,2-Dichloroethane	ND		500	200	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,2-Dichloropropane	ND		500	81	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,3-Dichlorobenzene	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,4-Dichlorobenzene	ND		500	70	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
2-Butanone (MEK)	ND		2500	1500	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
2-Hexanone	ND		2500	1000	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
4-Methyl-2-pentanone (MIBK)	ND		2500	160	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Acetone	ND		2500	2100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Benzene	ND		500	95	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Bromodichloromethane	ND		500	100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Bromoform	ND		500	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Bromomethane	ND		500	110	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Carbon disulfide	ND		500	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Carbon tetrachloride	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Chlorobenzene	ND		500	66	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Dibromochloromethane	ND		500	240	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Chloroethane	ND		500	100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Chloroform	ND		500	340	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Chloromethane	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
cis-1,2-Dichloroethene	ND		500	140	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
cis-1,3-Dichloropropene	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Cyclohexane	ND		500	110	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Dichlorodifluoromethane	ND		500	220	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Ethylbenzene	ND		500	150	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
1,2-Dibromoethane	ND		500	88	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Isopropylbenzene	ND		500	75	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Methyl acetate	ND		2500	240	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Methyl tert-butyl ether	ND		500	190	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Methylcyclohexane	ND		500	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Methylene Chloride	ND		500	99	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Styrene	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Tetrachloroethene	ND		500	67	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Toluene	ND		500	130	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
trans-1,2-Dichloroethene	ND		500	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
trans-1,3-Dichloropropene	ND		500	49	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Trichloroethene	ND		500	140	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Trichlorofluoromethane	ND		500	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Vinyl chloride	ND		500	170	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4
Xylenes, Total	ND		1000	280	ug/Kg	☼	06/14/21 00:48	06/15/21 00:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*50 - 149*	*06/14/21 00:48*	*06/15/21 00:25*	*4*
1,2-Dichloroethane-d4 (Surr)	*98*		*53 - 146*	*06/14/21 00:48*	*06/15/21 00:25*	*4*
4-Bromofluorobenzene (Surr)	*102*		*49 - 148*	*06/14/21 00:48*	*06/15/21 00:25*	*4*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*06/14/21 00:48*	*06/15/21 00:25*	*4*

Client: New York State D.E.C.
Job ID: 480-185607-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-BS-12-14-15-060221
Lab Sample ID: 480-185607-3
Date Collected: 06/02/21 08:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	63	ug/Kg	☼	06/10/21 15:14	06/14/21 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*	*06/10/21 15:14*	*06/14/21 02:47*	*1*
p-Terphenyl-d14 (Surr)	*96*		*79 - 130*	*06/10/21 15:14*	*06/14/21 02:47*	*1*
Phenol-d5 (Surr)	*84*		*54 - 120*	*06/10/21 15:14*	*06/14/21 02:47*	*1*
2-Fluorophenol (Surr)	*80*		*52 - 120*	*06/10/21 15:14*	*06/14/21 02:47*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*54 - 120*	*06/10/21 15:14*	*06/14/21 02:47*	*1*
2-Fluorobiphenyl	*87*		*60 - 120*	*06/10/21 15:14*	*06/14/21 02:47*	*1*

Client Sample ID: 828109-BS-11-13-14-060221
Lab Sample ID: 480-185607-4
Date Collected: 06/02/21 14:15
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1200	340	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,1,2,2-Tetrachloroethane	ND	F1	1200	200	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,1,2-Trichloroethane	ND		1200	260	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1200	620	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,1-Dichloroethane	ND		1200	380	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,1-Dichloroethene	ND		1200	430	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,2,4-Trichlorobenzene	ND		1200	470	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,2-Dibromo-3-Chloropropane	ND		1200	620	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,2-Dichlorobenzene	ND		1200	310	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,2-Dichloroethane	ND		1200	500	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,2-Dichloropropane	ND		1200	200	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,3-Dichlorobenzene	ND		1200	330	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,4-Dichlorobenzene	ND		1200	170	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
2-Butanone (MEK)	ND		6200	3700	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
2-Hexanone	ND		6200	2500	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
4-Methyl-2-pentanone (MIBK)	ND		6200	390	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Acetone	ND		6200	5100	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Benzene	ND		1200	230	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Bromodichloromethane	ND		1200	250	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Bromoform	ND		1200	620	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Bromomethane	ND		1200	270	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Carbon disulfide	ND		1200	560	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Carbon tetrachloride	ND		1200	310	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Chlorobenzene	ND		1200	160	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Dibromochloromethane	ND		1200	600	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Chloroethane	ND	F1	1200	260	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Chloroform	ND		1200	850	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Chloromethane	ND		1200	290	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
cis-1,2-Dichloroethene	ND		1200	340	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
cis-1,3-Dichloropropene	ND		1200	290	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Cyclohexane	ND		1200	270	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Dichlorodifluoromethane	ND		1200	540	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Ethylbenzene	ND		1200	360	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
1,2-Dibromoethane	ND		1200	220	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10

Client: New York State D.E.C.
Job ID: 480-185607-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-BS-11-13-14-060221
Lab Sample ID: 480-185607-4
Date Collected: 06/02/21 14:15
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1200	180	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Methyl acetate	ND		6200	590	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Methyl tert-butyl ether	ND	F1	1200	470	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Methylcyclohexane	ND		1200	580	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Methylene Chloride	ND		1200	240	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Styrene	ND		1200	300	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Tetrachloroethene	ND		1200	170	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Toluene	ND		1200	330	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
trans-1,2-Dichloroethene	ND		1200	290	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
trans-1,3-Dichloropropene	ND		1200	120	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Trichloroethene	ND		1200	340	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Trichlorofluoromethane	ND		1200	580	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Vinyl chloride	ND		1200	410	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10
Xylenes, Total	ND		2500	680	ug/Kg	☼	06/14/21 00:48	06/15/21 00:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*50 - 149*	*06/14/21 00:48*	*06/15/21 00:48*	*10*
1,2-Dichloroethane-d4 (Surr)	*95*		*53 - 146*	*06/14/21 00:48*	*06/15/21 00:48*	*10*
4-Bromofluorobenzene (Surr)	*95*		*49 - 148*	*06/14/21 00:48*	*06/15/21 00:48*	*10*
Dibromofluoromethane (Surr)	*96*		*60 - 140*	*06/14/21 00:48*	*06/15/21 00:48*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		570	310	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,4,5-Trichlorophenol	ND		960	260	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,4,6-Trichlorophenol	ND		960	190	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,4-Dichlorophenol	ND		960	100	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,4-Dimethylphenol	ND		960	230	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,4-Dinitrophenol	ND		9400	4400	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,4-Dinitrotoluene	ND		960	200	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2,6-Dinitrotoluene	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2-Chloronaphthalene	ND		960	160	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2-Chlorophenol	ND		1900	180	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2-Methylnaphthalene	ND		960	190	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2-Methylphenol	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
2-Nitrophenol	ND		960	270	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4,6-Dinitro-2-methylphenol	ND		1900	960	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4-Bromophenyl phenyl ether	ND		960	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4-Chloro-3-methylphenol	ND		960	240	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4-Chloroaniline	ND		960	240	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4-Chlorophenyl phenyl ether	ND		960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4-Nitroaniline	ND		1900	500	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
4-Nitrophenol	ND		1900	670	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Acenaphthene	ND		960	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Acenaphthylene	ND		960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Acetophenone	ND		960	130	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Anthracene	ND		960	240	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5

Client Sample ID: 828109-BS-11-13-14-060221
Lab Sample ID: 480-185607-4
Date Collected: 06/02/21 14:15
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		960	330	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Benzaldehyde	ND		960	770	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Benzo[a]anthracene	**590**	**J**	960	96	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Benzo[a]pyrene	**750**	**J F1**	960	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Benzo[b]fluoranthene	**1100**		960	150	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Benzo[g,h,i]perylene	**630**	**J**	960	100	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Benzo[k]fluoranthene	**350**	**J**	960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Biphenyl	ND		960	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
bis (2-chloroisopropyl) ether	ND		960	190	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Bis(2-chloroethoxy)methane	ND		960	200	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Bis(2-chloroethyl)ether	ND		960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Bis(2-ethylhexyl) phthalate	ND		960	330	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Butyl benzyl phthalate	ND		960	160	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Caprolactam	ND		960	290	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Carbazole	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Chrysene	**740**	**J F1**	960	220	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Dibenz(a,h)anthracene	ND		960	170	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Dibenzofuran	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Diethyl phthalate	ND		960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Dimethyl phthalate	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Di-n-butyl phthalate	ND		960	160	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Di-n-octyl phthalate	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Fluoranthene	**1400**	**F1**	960	100	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Fluorene	**150**	**J**	960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Hexachlorobenzene	ND		960	130	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Hexachlorobutadiene	ND		960	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Hexachlorocyclopentadiene	ND		960	130	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Hexachloroethane	ND		960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Indeno[1,2,3-cd]pyrene	**570**	**J**	960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Isophorone	ND		960	200	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Methylphenol, 3 & 4	ND		1900	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Naphthalene	ND		960	120	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Nitrobenzene	ND		960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
N-Nitrosodi-n-propylamine	ND		960	160	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
N-Nitrosodiphenylamine	ND		960	780	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Pentachlorophenol	ND		1900	960	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Phenanthrene	**720**	**J F1**	960	140	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Phenol	ND		960	150	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5
Pyrene	**1100**	**F1**	960	110	ug/Kg	☼	06/10/21 15:14	06/14/21 01:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*54 - 120*	*06/10/21 15:14*	*06/14/21 01:12*	*5*
2-Fluorobiphenyl	*100*		*60 - 120*	*06/10/21 15:14*	*06/14/21 01:12*	*5*
2-Fluorophenol (Surr)	*98*		*52 - 120*	*06/10/21 15:14*	*06/14/21 01:12*	*5*
Nitrobenzene-d5 (Surr)	*103*		*53 - 120*	*06/10/21 15:14*	*06/14/21 01:12*	*5*
Phenol-d5 (Surr)	*100*		*54 - 120*	*06/10/21 15:14*	*06/14/21 01:12*	*5*
p-Terphenyl-d14 (Surr)	*101*		*79 - 130*	*06/10/21 15:14*	*06/14/21 01:12*	*5*

Client Sample ID: 828109-BS-11-13-14-060221

Date Collected: 06/02/21 14:15
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-4

Matrix: Solid
Percent Solids: 85.9

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1 F2	1.9	0.37	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
4,4'-DDE	ND	F1 F2	1.9	0.40	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
4,4'-DDT	**1.1**	**J B F1 F2**	1.9	0.45	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Aldrin	ND	F1 F2	1.9	0.47	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
alpha-BHC	ND	F1 F2	1.9	0.35	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
cis-Chlordane	**14**	**F1 F2**	1.9	0.96	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
beta-BHC	ND	F1 F2	1.9	0.35	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
delta-BHC	ND	F1 F2	1.9	0.36	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Dieldrin	ND	F1 F2	1.9	0.46	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Endosulfan I	ND	F1 F2	1.9	0.37	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Endosulfan II	ND	F1 F2	1.9	0.35	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Endosulfan sulfate	ND	F1 F2	1.9	0.36	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Endrin	ND	F1 F2	1.9	0.38	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Endrin aldehyde	ND	F1 F2	1.9	0.49	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Endrin ketone	ND	F1 F2	1.9	0.47	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
gamma-BHC (Lindane)	ND	F1 F2	1.9	0.35	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
trans-Chlordane	**11**	**F1 F2**	1.9	0.61	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Heptachlor	ND	F1 F2	1.9	0.42	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Heptachlor epoxide	ND	F1 F2	1.9	0.50	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Methoxychlor	**1.7**	**J F1 F2**	1.9	0.39	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1
Toxaphene	ND		19	11	ug/Kg	☼	06/11/21 09:04	06/11/21 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*45 - 120*	*06/11/21 09:04*	*06/11/21 16:40*	*1*
DCB Decachlorobiphenyl	*91*		*45 - 120*	*06/11/21 09:04*	*06/11/21 16:40*	*1*
Tetrachloro-m-xylene	*68*		*30 - 124*	*06/11/21 09:04*	*06/11/21 16:40*	*1*
Tetrachloro-m-xylene	*51*		*30 - 124*	*06/11/21 09:04*	*06/11/21 16:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		260	50	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1
PCB-1221	ND		260	50	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1
PCB-1232	ND		260	50	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1
PCB-1242	ND		260	50	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1
PCB-1248	ND		260	50	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1
PCB-1254	ND		260	120	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1
PCB-1260	ND		260	120	ug/Kg	☼	06/11/21 14:40	06/13/21 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*158*		*65 - 174*	*06/11/21 14:40*	*06/13/21 23:20*	*1*
DCB Decachlorobiphenyl	*140*		*65 - 174*	*06/11/21 14:40*	*06/13/21 23:20*	*1*
Tetrachloro-m-xylene	*126*		*60 - 154*	*06/11/21 14:40*	*06/13/21 23:20*	*1*
Tetrachloro-m-xylene	*136*		*60 - 154*	*06/11/21 14:40*	*06/13/21 23:20*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.58	0.19	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.045	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorohexanoic acid (PFHxA)	ND		0.23	0.026	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.023	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1

Client Sample ID: 828109-BS-11-13-14-060221
Date Collected: 06/02/21 14:15
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-4
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		0.23	0.029	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorononanoic acid (PFNA)	ND		0.23	0.021	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorodecanoic acid (PFDA)	ND		0.23	0.014	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.023	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.024	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.017	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.027	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorobutanesulfonic acid (PFBS)	**0.015**	**J I B**	0.23	0.011	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorohexanesulfonic acid (PFHxS)	**0.021**	**J**	0.23	0.016	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.017	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorooctanesulfonic acid (PFOS)	**0.18**	**J**	0.23	0.019	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.014	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.020	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.043	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.053	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.3	0.036	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.3	0.019	ug/Kg	☼	06/16/21 09:09	06/17/21 16:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*65*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C4 PFHpA	*83*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C4 PFOA	*84*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C4 PFOS	*67*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C5 PFNA	*85*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C4 PFBA	*79*		*25 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C2 PFHxA	*86*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C2 PFDA	*88*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C2 PFUnA	*81*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C2 PFDoA	*76*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C8 FOSA	*59*		*25 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C5 PFPeA	*82*		*25 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C2 PFTeDA	*77*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
d3-NMeFOSAA	*90*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
d5-NEtFOSAA	*91*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
M2-6:2 FTS	*66*		*25 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
M2-8:2 FTS	*89*		*25 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*
13C3 PFBS	*67*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10300**		12.4	5.4	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Antimony	ND	F1 F2	18.5	0.49	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Arsenic	**4.6**		2.5	0.49	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Barium	**47.1**		0.62	0.14	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1

Client Sample ID: 828109-BS-11-13-14-060221
Lab Sample ID: 480-185607-4
Date Collected: 06/02/21 14:15
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.37		0.25	0.035	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Cadmium	0.15	J	0.25	0.037	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Calcium	29100	F2	61.8	4.1	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Chromium	14.8		0.62	0.25	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Cobalt	6.2		0.62	0.062	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Copper	28.0	F1	1.2	0.26	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Iron	14500		12.4	4.3	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Lead	23.1	F1	1.2	0.30	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Magnesium	13100	F2	24.7	1.1	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Manganese	393	B F2	0.25	0.040	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Nickel	13.1		6.2	0.28	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Potassium	1580	F1	37.1	24.7	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Selenium	0.61	J	4.9	0.49	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Silver	ND		0.74	0.25	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Sodium	161	J F2	173	16.1	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Thallium	ND		7.4	0.37	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Vanadium	19.1		0.62	0.14	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1
Zinc	48.5	F1 F2	2.5	0.79	mg/Kg	☼	06/11/21 10:17	06/14/21 16:44	1

Client Sample ID: 828109-BS-911-13-14-060221
Lab Sample ID: 480-185607-5
Date Collected: 06/02/21 14:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.43	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,1,2-Trichloroethane	ND	vs	6.0	0.77	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,1-Dichloroethene	ND	vs	6.0	0.73	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.36	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,4-Dichlorobenzene	ND	vs	6.0	0.83	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Acetone	ND	vs	30	5.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Bromodichloromethane	ND	vs	6.0	0.80	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Bromomethane	ND	vs *+	6.0	0.54	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Dibromochloromethane	ND	vs	6.0	0.76	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1

Client Sample ID: 828109-BS-911-13-14-060221
Date Collected: 06/02/21 14:30
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-5
Matrix: Solid
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	vs *+	6.0	1.3	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.76	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.86	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Cyclohexane	ND	vs	6.0	0.83	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Dichlorodifluoromethane	ND	vs	6.0	0.49	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
1,2-Dibromoethane	ND	vs	6.0	0.76	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Isopropylbenzene	ND	vs	6.0	0.90	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Methyl tert-butyl ether	ND	vs	6.0	0.58	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Methylcyclohexane	ND	vs	6.0	0.90	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Methylene Chloride	**4.2**	**J vs**	6.0	2.7	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Tetrachloroethene	**11**	**vs**	6.0	0.80	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Toluene	ND	vs	6.0	0.45	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.61	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Trichlorofluoromethane	ND	vs	6.0	0.56	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	06/11/21 10:30	06/11/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*71 - 125*	*06/11/21 10:30*	*06/11/21 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*06/11/21 10:30*	*06/11/21 17:34*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*06/11/21 10:30*	*06/11/21 17:34*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*06/11/21 10:30*	*06/11/21 17:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		600	330	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,4,5-Trichlorophenol	ND		1000	270	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,4-Dimethylphenol	ND		1000	240	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,4-Dinitrophenol	ND		9900	4700	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2-Chlorophenol	ND		2000	180	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2-Methylnaphthalene	ND		1000	200	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2-Nitroaniline	ND		2000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
2-Nitrophenol	ND		1000	290	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
3-Nitroaniline	ND		2000	280	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5

Client Sample ID: 828109-BS-911-13-14-060221
Lab Sample ID: 480-185607-5
Date Collected: 06/02/21 14:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
4-Chloroaniline	ND		1000	250	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
4-Chlorophenyl phenyl ether	ND		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
4-Nitroaniline	ND		2000	530	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
4-Nitrophenol	ND		2000	710	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Acenaphthene	ND		1000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Acenaphthylene	**380**	**J**	1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Acetophenone	ND		1000	140	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Anthracene	**510**	**J**	1000	250	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Atrazine	ND		1000	350	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Benzaldehyde	ND		1000	800	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Benzo[a]anthracene	**2500**		1000	100	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Benzo[a]pyrene	**2400**		1000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Benzo[b]fluoranthene	**3700**		1000	160	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Benzo[g,h,i]perylene	**1400**		1000	110	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Benzo[k]fluoranthene	**1400**		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Biphenyl	ND		1000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
bis (2-chloroisopropyl) ether	ND		1000	200	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Bis(2-chloroethoxy)methane	ND		1000	210	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Bis(2-ethylhexyl) phthalate	ND		1000	350	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Caprolactam	ND		1000	300	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Carbazole	**270**	**J**	1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Chrysene	**2700**		1000	230	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Dibenz(a,h)anthracene	**510**	**J**	1000	180	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Dibenzofuran	ND		1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Fluoranthene	**5900**		1000	110	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Fluorene	**260**	**J**	1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Indeno[1,2,3-cd]pyrene	**1400**		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Isophorone	ND		1000	210	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Methylphenol, 3 & 4	ND		2000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Naphthalene	ND		1000	130	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
N-Nitrosodiphenylamine	ND		1000	820	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Phenanthrene	**2800**		1000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Phenol	ND		1000	150	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5
Pyrene	**4200**		1000	120	ug/Kg	☼	06/10/21 15:14	06/14/21 03:11	5

Client Sample ID: 828109-BS-911-13-14-060221
Lab Sample ID: 480-185607-5
Date Collected: 06/02/21 14:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 81.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*54 - 120*	*06/10/21 15:14*	*06/14/21 03:11*	*5*
2-Fluorobiphenyl	*90*		*60 - 120*	*06/10/21 15:14*	*06/14/21 03:11*	*5*
2-Fluorophenol (Surr)	*88*		*52 - 120*	*06/10/21 15:14*	*06/14/21 03:11*	*5*
Nitrobenzene-d5 (Surr)	*93*		*53 - 120*	*06/10/21 15:14*	*06/14/21 03:11*	*5*
Phenol-d5 (Surr)	*86*		*54 - 120*	*06/10/21 15:14*	*06/14/21 03:11*	*5*
p-Terphenyl-d14 (Surr)	*85*		*79 - 130*	*06/10/21 15:14*	*06/14/21 03:11*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.40	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
4,4'-DDE	ND		2.0	0.43	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
4,4'-DDT	**0.91**	**J B**	2.0	0.48	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Aldrin	ND		2.0	0.50	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
alpha-BHC	ND		2.0	0.37	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
cis-Chlordane	**3.4**		2.0	1.0	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
beta-BHC	ND		2.0	0.37	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
delta-BHC	ND		2.0	0.38	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Dieldrin	ND		2.0	0.49	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Endosulfan II	ND		2.0	0.37	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Endrin	ND		2.0	0.40	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Endrin aldehyde	ND		2.0	0.52	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Endrin ketone	**1.0**	**J B**	2.0	0.50	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
trans-Chlordane	**2.8**		2.0	0.65	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1
Toxaphene	ND		20	12	ug/Kg	☼	06/11/21 09:04	06/14/21 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*	*S1+*	*45 - 120*	*06/11/21 09:04*	*06/14/21 12:59*	*1*
DCB Decachlorobiphenyl	*116*		*45 - 120*	*06/11/21 09:04*	*06/14/21 12:59*	*1*
Tetrachloro-m-xylene	*79*		*30 - 124*	*06/11/21 09:04*	*06/14/21 12:59*	*1*
Tetrachloro-m-xylene	*64*		*30 - 124*	*06/11/21 09:04*	*06/14/21 12:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		300	58	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1
PCB-1221	ND		300	58	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1
PCB-1232	ND		300	58	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1
PCB-1242	ND		300	58	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1
PCB-1248	ND		300	58	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1
PCB-1254	ND		300	140	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1
PCB-1260	ND		300	140	ug/Kg	☼	06/11/21 14:40	06/14/21 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*134*		*65 - 174*	*06/11/21 14:40*	*06/14/21 17:26*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*06/11/21 14:40*	*06/14/21 17:26*	*1*
Tetrachloro-m-xylene	*107*		*60 - 154*	*06/11/21 14:40*	*06/14/21 17:26*	*1*

Client Sample ID: 828109-BS-911-13-14-060221
Date Collected: 06/02/21 14:30
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-5
Matrix: Solid
Percent Solids: 81.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		60 - 154	06/11/21 14:40	06/14/21 17:26	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.58	0.19	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluoropentanoic acid (PFPeA)	ND		0.23	0.046	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorohexanoic acid (PFHxA)	ND		0.23	0.026	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.023	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorooctanoic acid (PFOA)	ND		0.23	0.029	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorononanoic acid (PFNA)	ND		0.23	0.021	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorodecanoic acid (PFDA)	ND		0.23	0.014	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.023	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorododecanoic acid (PFDoA)	ND		0.23	0.025	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.018	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.027	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorobutanesulfonic acid (PFBS)	**0.011**	**J B**	0.23	0.011	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorohexanesulfonic acid (PFHxS)	**0.017**	**J**	0.23	0.016	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.23	0.018	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorooctanesulfonic acid (PFOS)	**0.11**	**J**	0.23	0.019	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.014	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.020	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.043	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.054	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.3	0.036	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.3	0.019	ug/Kg	☼	06/16/21 09:09	06/17/21 16:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	65		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C4 PFHpA	86		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C4 PFOA	88		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C4 PFOS	66		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C5 PFNA	84		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C4 PFBA	82		25 - 150	06/16/21 09:09	06/17/21 16:28	1
13C2 PFHxA	87		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C2 PFDA	88		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C2 PFUnA	73		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C2 PFDoA	68		50 - 150	06/16/21 09:09	06/17/21 16:28	1
13C8 FOSA	59		25 - 150	06/16/21 09:09	06/17/21 16:28	1
13C5 PFPeA	86		25 - 150	06/16/21 09:09	06/17/21 16:28	1
13C2 PFTeDA	76		50 - 150	06/16/21 09:09	06/17/21 16:28	1
d3-NMeFOSAA	95		50 - 150	06/16/21 09:09	06/17/21 16:28	1
d5-NEtFOSAA	89		50 - 150	06/16/21 09:09	06/17/21 16:28	1
M2-6:2 FTS	72		25 - 150	06/16/21 09:09	06/17/21 16:28	1
M2-8:2 FTS	73		25 - 150	06/16/21 09:09	06/17/21 16:28	1

Client Sample ID: 828109-BS-911-13-14-060221

Lab Sample ID: 480-185607-5

Date Collected: 06/02/21 14:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 81.6

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*64*		*50 - 150*	*06/16/21 09:09*	*06/17/21 16:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9640**		12.7	5.6	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Antimony	ND		19.0	0.51	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Arsenic	**4.3**		2.5	0.51	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Barium	**48.8**		0.63	0.14	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Beryllium	**0.40**		0.25	0.036	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Cadmium	**0.23**	**J**	0.25	0.038	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Calcium	**10500**		63.5	4.2	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Chromium	**11.8**		0.63	0.25	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Cobalt	**7.1**		0.63	0.063	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Copper	**13.8**		1.3	0.27	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Iron	**15400**	**^+**	12.7	4.4	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Lead	**14.5**		1.3	0.30	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Magnesium	**7240**		25.4	1.2	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Manganese	**793**	**B ^2 ^+**	0.25	0.041	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Nickel	**14.6**		6.3	0.29	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Potassium	**1930**		38.1	25.4	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Selenium	**0.99**	**J**	5.1	0.51	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Silver	ND		0.76	0.25	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Sodium	**161**	**J**	178	16.5	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Thallium	ND		7.6	0.38	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Vanadium	**20.0**		0.63	0.14	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1
Zinc	**76.3**		2.5	0.81	mg/Kg	☼	06/11/21 10:17	06/14/21 17:06	1

Client Sample ID: TB-01

Lab Sample ID: 480-185607-6

Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/04/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/10/21 15:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/10/21 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/10/21 15:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/10/21 15:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/10/21 15:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/10/21 15:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/10/21 15:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/10/21 15:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/10/21 15:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/10/21 15:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/10/21 15:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/10/21 15:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/10/21 15:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/10/21 15:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/10/21 15:46	1
2-Hexanone	ND		5.0	1.2	ug/L			06/10/21 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/10/21 15:46	1

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Client Sample ID: TB-01
Date Collected: 06/02/21 00:00
Date Received: 06/04/21 08:00

Lab Sample ID: 480-185607-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			06/10/21 15:46	1
Benzene	ND		1.0	0.41	ug/L			06/10/21 15:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/10/21 15:46	1
Bromoform	ND		1.0	0.26	ug/L			06/10/21 15:46	1
Bromomethane	ND		1.0	0.69	ug/L			06/10/21 15:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/10/21 15:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/10/21 15:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/10/21 15:46	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 15:46	1
Chloroform	ND		1.0	0.34	ug/L			06/10/21 15:46	1
Chloromethane	ND		1.0	0.35	ug/L			06/10/21 15:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/10/21 15:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/10/21 15:46	1
Cyclohexane	ND		1.0	0.18	ug/L			06/10/21 15:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/10/21 15:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/10/21 15:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/21 15:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/10/21 15:46	1
Methyl acetate	ND		2.5	1.3	ug/L			06/10/21 15:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/10/21 15:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/10/21 15:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/10/21 15:46	1
Styrene	ND		1.0	0.73	ug/L			06/10/21 15:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/10/21 15:46	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 15:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/10/21 15:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/10/21 15:46	1
Trichloroethene	ND		1.0	0.46	ug/L			06/10/21 15:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/10/21 15:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/10/21 15:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/10/21 15:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/10/21 15:46*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/10/21 15:46*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/10/21 15:46*	*1*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-149)	(53-146)	(49-148)	(60-140)
480-185607-1	828109-BS-13-10-12-060121	97	97	100	96
480-185607-2	828109-BS-14-10-11-060121	99	95	99	93
480-185607-3	828109-BS-12-14-15-060221	103	98	102	93
480-185607-4	828109-BS-11-13-14-060221	95	95	95	96
480-185607-4 MS	828109-BS-11-13-14-060221	98	97	101	95
480-185607-4 MSD	828109-BS-11-13-14-060221	99	96	101	93
LCS 480-585183/1-A	Lab Control Sample	100	91	104	94
MB 480-585183/2-A	Method Blank	106	102	105	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-185607-5	828109-BS-911-13-14-060221	95	103	96	104
LCS 480-585031/1-A	Lab Control Sample	96	101	99	102
MB 480-585031/2-A	Method Blank	93	105	93	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-185607-6	TB-01	101	97	100	103
LCS 480-584777/5	Lab Control Sample	100	97	101	102
MB 480-584777/7	Method Blank	99	96	102	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-185607-1
Project/Site: Speedy's Cleaners #828109

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (53-120)	TPHd14 (79-130)	PHL (54-120)	2FP (52-120)	TBP (54-120)	FBP (60-120)
480-185607-1	828109-BS-13-10-12-060121	97	106	90	87	108	103
480-185607-2	828109-BS-14-10-11-060121	85	102	83	77	100	90
480-185607-3	828109-BS-12-14-15-060221	82	96	84	80	93	87
480-185607-4	828109-BS-11-13-14-060221	103	101	100	98	98	100
480-185607-4 MS	828109-BS-11-13-14-060221	90	93	83	78	92	91
480-185607-4 MSD	828109-BS-11-13-14-060221	87	98	83	81	103	91
480-185607-5	828109-BS-911-13-14-060221	93	85	86	88	94	90
LCS 480-584900/2-A	Lab Control Sample	82	97	82	80	98	90
MB 480-584900/1-A	Method Blank	87	104	81	82	87	93

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (45-120)	DCBP2 (45-120)	TCX1 (30-124)	TCX2 (30-124)
480-185607-4	828109-BS-11-13-14-060221	71	91	68	51
480-185607-4 MS	828109-BS-11-13-14-060221	16 S1-	15 S1-	18 S1-	7 S1-
480-185607-4 MSD	828109-BS-11-13-14-060221	187 S1+	322 S1+	153 S1+	134 S1+
480-185607-5	828109-BS-911-13-14-060221	127 S1+	116	79	64
LCS 480-584987/2-A	Lab Control Sample	70	69	66	62
MB 480-584987/1-A	Method Blank	67	67	62	54

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (65-174)	DCBP2 (65-174)	TCX1 (60-154)	TCX2 (60-154)
480-185607-4	828109-BS-11-13-14-060221	140	158	136	126
480-185607-4 MS	828109-BS-11-13-14-060221	168	186 S1+	155 S1+	143
480-185607-4 MSD	828109-BS-11-13-14-060221	151	166	143	129
480-185607-5	828109-BS-911-13-14-060221	122	134	111	107
LCS 480-585080/2-A	Lab Control Sample	128	143	128	123
MB 480-585080/1-A	Method Blank	136	157	143	131

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-185607-4	828109-BS-11-13-14-060221	65	83	84	67	85	79	86	88
480-185607-4 MS	828109-BS-11-13-14-060221	66	81	84	65	83	80	86	88
480-185607-4 MSD	828109-BS-11-13-14-060221	64	80	84	67	84	80	83	79
480-185607-5	828109-BS-911-13-14-060221	65	86	88	66	84	82	87	88
LCS 200-167997/2-A	Lab Control Sample	69	84	85	72	84	79	86	87
MB 200-167997/1-A	Method Blank	76	93	94	75	91	88	89	93

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-185607-4	828109-BS-11-13-14-060221	81	76	59	82	77	90	91	66
480-185607-4 MS	828109-BS-11-13-14-060221	82	79	65	86	78	91	98	65
480-185607-4 MSD	828109-BS-11-13-14-060221	80	75	62	81	78	97	94	63
480-185607-5	828109-BS-911-13-14-060221	73	68	59	86	76	95	89	72
LCS 200-167997/2-A	Lab Control Sample	79	74	62	86	73	97	95	83
MB 200-167997/1-A	Method Blank	81	75	68	92	82	99	100	87

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)
480-185607-4	828109-BS-11-13-14-060221	89	67
480-185607-4 MS	828109-BS-11-13-14-060221	74	63
480-185607-4 MSD	828109-BS-11-13-14-060221	74	64
480-185607-5	828109-BS-911-13-14-060221	73	64
LCS 200-167997/2-A	Lab Control Sample	91	70
MB 200-167997/1-A	Method Blank	107	79

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

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

Lab Sample ID: MB 480-584777/7
Matrix: Water
Analysis Batch: 584777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/10/21 11:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/10/21 11:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/10/21 11:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/10/21 11:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/10/21 11:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/10/21 11:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/10/21 11:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/10/21 11:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/10/21 11:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/10/21 11:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/10/21 11:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/10/21 11:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/10/21 11:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/10/21 11:04	1
2-Hexanone	ND		5.0	1.2	ug/L			06/10/21 11:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/10/21 11:04	1
Acetone	ND		10	3.0	ug/L			06/10/21 11:04	1
Benzene	ND		1.0	0.41	ug/L			06/10/21 11:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/10/21 11:04	1
Bromoform	ND		1.0	0.26	ug/L			06/10/21 11:04	1
Bromomethane	ND		1.0	0.69	ug/L			06/10/21 11:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/10/21 11:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/10/21 11:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/10/21 11:04	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 11:04	1
Chloroform	ND		1.0	0.34	ug/L			06/10/21 11:04	1
Chloromethane	ND		1.0	0.35	ug/L			06/10/21 11:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/10/21 11:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/10/21 11:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/10/21 11:04	1
Cyclohexane	ND		1.0	0.18	ug/L			06/10/21 11:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/10/21 11:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/10/21 11:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/21 11:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/10/21 11:04	1
Methyl acetate	ND		2.5	1.3	ug/L			06/10/21 11:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/10/21 11:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/10/21 11:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/10/21 11:04	1
Styrene	ND		1.0	0.73	ug/L			06/10/21 11:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/10/21 11:04	1
Toluene	ND		1.0	0.51	ug/L			06/10/21 11:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/10/21 11:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/10/21 11:04	1
Trichloroethene	ND		1.0	0.46	ug/L			06/10/21 11:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/10/21 11:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/10/21 11:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/21 11:04	1

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

Lab Sample ID: MB 480-584777/7
Matrix: Water
Analysis Batch: 584777

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/10/21 11:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/10/21 11:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/10/21 11:04*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/10/21 11:04*	*1*

Lab Sample ID: LCS 480-584777/5
Matrix: Water
Analysis Batch: 584777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	28.7		ug/L		115	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		96	61 - 148
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	76 - 122
1,1-Dichloroethane	25.0	26.2		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.0		ug/L		88	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	23.3		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 120
2-Butanone (MEK)	125	119		ug/L		95	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	122		ug/L		98	56 - 142
Benzene	25.0	25.6		ug/L		102	71 - 124
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Bromoform	25.0	23.6		ug/L		94	61 - 132
Bromomethane	25.0	26.1		ug/L		104	55 - 144
Carbon disulfide	25.0	25.5		ug/L		102	59 - 134
Carbon tetrachloride	25.0	28.4		ug/L		114	72 - 134
Chlorobenzene	25.0	24.6		ug/L		99	80 - 120
Chloroethane	25.0	29.8		ug/L		119	69 - 136
Chloroform	25.0	24.7		ug/L		99	73 - 127
Chloromethane	25.0	24.1		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	74 - 124
1,2-Dibromoethane	25.0	24.5		ug/L		98	77 - 120
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	28.8		ug/L		115	59 - 135
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Dichlorodifluoromethane	25.0	22.5		ug/L		90	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
Methyl acetate	50.0	47.9		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	27.7		ug/L		111	77 - 120
Methylcyclohexane	25.0	28.3		ug/L		113	68 - 134

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

Lab Sample ID: LCS 480-584777/5
Matrix: Water
Analysis Batch: 584777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	25.7		ug/L		103	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	24.9		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	73 - 127
trans-1,3-Dichloropropene	25.0	24.4		ug/L		98	80 - 120
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	25.7		ug/L		103	62 - 150
Vinyl chloride	25.0	26.7		ug/L		107	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: MB 480-585031/2-A
Matrix: Solid
Analysis Batch: 584982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
2-Hexanone	ND		25	2.5	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Acetone	ND		25	4.2	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Benzene	ND		5.0	0.25	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Bromoform	ND		5.0	2.5	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Chloroform	ND		5.0	0.31	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/11/21 10:30	06/11/21 11:43	1

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

Lab Sample ID: MB 480-585031/2-A
Matrix: Solid
Analysis Batch: 584982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Methyl acetate	ND		25	3.0	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Styrene	ND		5.0	0.25	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Toluene	ND		5.0	0.38	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/11/21 10:30	06/11/21 11:43	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/11/21 10:30	06/11/21 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*71 - 125*	*06/11/21 10:30*	*06/11/21 11:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*06/11/21 10:30*	*06/11/21 11:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*06/11/21 10:30*	*06/11/21 11:43*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*06/11/21 10:30*	*06/11/21 11:43*	*1*

Lab Sample ID: LCS 480-585031/1-A
Matrix: Solid
Analysis Batch: 584982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	77 - 121
1,1,2,2-Tetrachloroethane	50.0	42.1		ug/Kg		84	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.9		ug/Kg		90	60 - 140
1,1,2-Trichloroethane	50.0	44.5		ug/Kg		89	78 - 122
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	73 - 126
1,1-Dichloroethene	50.0	47.1		ug/Kg		94	59 - 125
1,2,4-Trichlorobenzene	50.0	40.6		ug/Kg		81	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	40.3		ug/Kg		81	63 - 124
1,2-Dichlorobenzene	50.0	40.8		ug/Kg		82	75 - 120
1,2-Dichloroethane	50.0	45.2		ug/Kg		90	77 - 122
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	50.0	43.2		ug/Kg		86	74 - 120
1,4-Dichlorobenzene	50.0	42.9		ug/Kg		86	73 - 120
2-Butanone (MEK)	250	209		ug/Kg		84	70 - 134
2-Hexanone	250	206		ug/Kg		82	59 - 130

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

Lab Sample ID: LCS 480-585031/1-A
Matrix: Solid
Analysis Batch: 584982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	250	203		ug/Kg		81	65 - 133
Acetone	250	199		ug/Kg		79	61 - 137
Benzene	50.0	48.5		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	51.1		ug/Kg		102	80 - 122
Bromoform	50.0	43.0		ug/Kg		86	68 - 126
Bromomethane	50.0	77.6	*+	ug/Kg		155	37 - 149
Carbon disulfide	50.0	47.5		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	50.1		ug/Kg		100	75 - 135
Chlorobenzene	50.0	44.1		ug/Kg		88	76 - 124
Chloroethane	50.0	83.3	*+	ug/Kg		167	69 - 135
Chloroform	50.0	48.0		ug/Kg		96	80 - 120
Chloromethane	50.0	58.5		ug/Kg		117	63 - 127
cis-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	81 - 120
1,2-Dibromoethane	50.0	43.0		ug/Kg		86	78 - 120
cis-1,3-Dichloropropene	50.0	48.6		ug/Kg		97	80 - 120
Cyclohexane	50.0	40.3		ug/Kg		81	65 - 120
Dibromochloromethane	50.0	47.9		ug/Kg		96	76 - 125
Dichlorodifluoromethane	50.0	47.0		ug/Kg		94	57 - 142
Ethylbenzene	50.0	44.9		ug/Kg		90	80 - 120
Isopropylbenzene	50.0	42.9		ug/Kg		86	72 - 120
Methyl acetate	100	86.0		ug/Kg		86	55 - 136
Methyl tert-butyl ether	50.0	45.5		ug/Kg		91	63 - 125
Methylcyclohexane	50.0	41.2		ug/Kg		82	60 - 140
Methylene Chloride	50.0	52.9		ug/Kg		106	61 - 127
Styrene	50.0	42.9		ug/Kg		86	80 - 120
Tetrachloroethene	50.0	42.4		ug/Kg		85	74 - 122
Toluene	50.0	44.7		ug/Kg		89	74 - 128
trans-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	78 - 126
trans-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	73 - 123
Trichloroethene	50.0	47.3		ug/Kg		95	77 - 129
Trichlorofluoromethane	50.0	60.2		ug/Kg		120	65 - 146
Vinyl chloride	50.0	62.9		ug/Kg		126	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*

Lab Sample ID: MB 480-585183/2-A
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		06/14/21 00:48	06/14/21 20:28	1

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

Lab Sample ID: MB 480-585183/2-A
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		100	31	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,1-Dichloroethene	ND		100	35	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,2-Dichloroethane	ND		100	41	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,2-Dichloropropane	ND		100	16	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
2-Butanone (MEK)	ND		500	300	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
2-Hexanone	ND		500	210	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Acetone	ND		500	410	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Benzene	ND		100	19	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Bromodichloromethane	ND		100	20	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Bromoform	ND		100	50	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Bromomethane	ND		100	22	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Carbon disulfide	ND		100	46	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Carbon tetrachloride	ND		100	26	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Chlorobenzene	ND		100	13	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Chloroethane	ND		100	21	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Chloroform	ND		100	69	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Chloromethane	ND		100	24	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
1,2-Dibromoethane	ND		100	18	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Cyclohexane	ND		100	22	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Dibromochloromethane	ND		100	48	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Ethylbenzene	ND		100	29	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Isopropylbenzene	ND		100	15	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Methyl acetate	ND		500	48	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Methylcyclohexane	ND		100	47	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Methylene Chloride	ND		100	20	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Styrene	ND		100	24	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Tetrachloroethene	ND		100	13	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Toluene	ND		100	27	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Trichloroethene	ND		100	28	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Trichlorofluoromethane	ND		100	47	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Vinyl chloride	ND		100	34	ug/Kg		06/14/21 00:48	06/14/21 20:28	1
Xylenes, Total	ND		200	55	ug/Kg		06/14/21 00:48	06/14/21 20:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*50 - 149*	*06/14/21 00:48*	*06/14/21 20:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*53 - 146*	*06/14/21 00:48*	*06/14/21 20:28*	*1*

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

Lab Sample ID: MB 480-585183/2-A
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585183

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*06/14/21 00:48*	*06/14/21 20:28*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*06/14/21 00:48*	*06/14/21 20:28*	*1*

Lab Sample ID: LCS 480-585183/1-A
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2400		ug/Kg		96	68 - 130
1,1,2,2-Tetrachloroethane	2500	2500		ug/Kg		100	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2730		ug/Kg		109	10 - 179
1,1,2-Trichloroethane	2500	2620		ug/Kg		105	80 - 120
1,1-Dichloroethane	2500	2530		ug/Kg		101	78 - 121
1,1-Dichloroethene	2500	2530		ug/Kg		101	48 - 133
1,2,4-Trichlorobenzene	2500	2460		ug/Kg		99	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2460		ug/Kg		98	56 - 122
1,2-Dichlorobenzene	2500	2470		ug/Kg		99	78 - 125
1,2-Dichloroethane	2500	2340		ug/Kg		94	74 - 127
1,2-Dichloropropane	2500	2470		ug/Kg		99	80 - 120
1,3-Dichlorobenzene	2500	2510		ug/Kg		100	80 - 120
1,4-Dichlorobenzene	2500	2380		ug/Kg		95	80 - 120
2-Butanone (MEK)	12500	12000		ug/Kg		96	54 - 149
2-Hexanone	12500	12000		ug/Kg		96	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	12300		ug/Kg		98	74 - 120
Acetone	12500	10500		ug/Kg		84	47 - 141
Benzene	2500	2560		ug/Kg		102	77 - 125
Bromodichloromethane	2500	2430		ug/Kg		97	71 - 121
Bromoform	2500	2310		ug/Kg		92	48 - 125
Bromomethane	2500	1930		ug/Kg		77	39 - 149
Carbon disulfide	2500	2350		ug/Kg		94	40 - 136
Carbon tetrachloride	2500	2460		ug/Kg		98	54 - 135
Chlorobenzene	2500	2650		ug/Kg		106	76 - 126
Chloroethane	2500	2030		ug/Kg		81	23 - 150
Chloroform	2500	2360		ug/Kg		94	78 - 120
Chloromethane	2500	2850		ug/Kg		114	61 - 124
cis-1,2-Dichloroethene	2500	2540		ug/Kg		102	79 - 124
1,2-Dibromoethane	2500	2610		ug/Kg		104	80 - 120
cis-1,3-Dichloropropene	2500	2720		ug/Kg		109	75 - 121
Cyclohexane	2500	2830		ug/Kg		113	49 - 129
Dibromochloromethane	2500	2440		ug/Kg		98	64 - 120
Dichlorodifluoromethane	2500	2500		ug/Kg		100	10 - 150
Ethylbenzene	2500	2680		ug/Kg		107	78 - 124
Isopropylbenzene	2500	2770		ug/Kg		111	76 - 120
Methyl acetate	5000	4630		ug/Kg		93	71 - 123
Methyl tert-butyl ether	2500	2440		ug/Kg		97	67 - 137
Methylcyclohexane	2500	2830		ug/Kg		113	50 - 130
Methylene Chloride	2500	2610		ug/Kg		105	75 - 118
Styrene	2500	2640		ug/Kg		105	80 - 120

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

Lab Sample ID: LCS 480-585183/1-A
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	2500	2530		ug/Kg		101	73 - 133
Toluene	2500	2760		ug/Kg		111	75 - 124
trans-1,2-Dichloroethene	2500	2520		ug/Kg		101	74 - 129
trans-1,3-Dichloropropene	2500	2700		ug/Kg		108	73 - 120
Trichloroethene	2500	2620		ug/Kg		105	75 - 131
Trichlorofluoromethane	2500	2170		ug/Kg		87	29 - 158
Vinyl chloride	2500	2980		ug/Kg		119	59 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*50 - 149*
1,2-Dichloroethane-d4 (Surr)	*91*		*53 - 146*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*
Dibromofluoromethane (Surr)	*94*		*60 - 140*

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2880	3340		ug/Kg	☼	116	64 - 142
1,1,2,2-Tetrachloroethane	ND	F1	2880	3820	F1	ug/Kg	☼	132	56 - 128
1,1,2-Trichloroethane	ND		2880	3630		ug/Kg	☼	126	63 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2880	3890		ug/Kg	☼	135	64 - 154
1,1-Dichloroethane	ND		2880	3480		ug/Kg	☼	121	64 - 135
1,1-Dichloroethene	ND		2880	3650		ug/Kg	☼	127	62 - 145
1,2,4-Trichlorobenzene	ND		2880	3520		ug/Kg	☼	122	56 - 145
1,2-Dibromo-3-Chloropropane	ND		2880	3240		ug/Kg	☼	112	40 - 122
1,2-Dichlorobenzene	ND		2880	3310		ug/Kg	☼	115	68 - 133
1,2-Dichloroethane	ND		2880	3360		ug/Kg	☼	117	62 - 135
1,2-Dichloropropane	ND		2880	3510		ug/Kg	☼	122	67 - 139
1,3-Dichlorobenzene	ND		2880	3380		ug/Kg	☼	117	68 - 136
1,4-Dichlorobenzene	ND		2880	3200		ug/Kg	☼	111	69 - 136
2-Butanone (MEK)	ND		14400	17600		ug/Kg	☼	122	46 - 132
2-Hexanone	ND		14400	17200		ug/Kg	☼	119	44 - 130
4-Methyl-2-pentanone (MIBK)	ND		14400	16900		ug/Kg	☼	117	49 - 125
Acetone	ND		14400	19300		ug/Kg	☼	134	32 - 136
Benzene	ND		2880	3660		ug/Kg	☼	127	68 - 137
Bromodichloromethane	ND		2880	3140		ug/Kg	☼	109	62 - 136
Bromoform	ND		2880	2720		ug/Kg	☼	94	43 - 134
Bromomethane	ND		2880	3720		ug/Kg	☼	129	38 - 137
Carbon disulfide	ND		2880	3630		ug/Kg	☼	126	52 - 139
Carbon tetrachloride	ND		2880	3100		ug/Kg	☼	108	60 - 150
Chlorobenzene	ND		2880	3810		ug/Kg	☼	132	67 - 136
Dibromochloromethane	ND		2880	2940		ug/Kg	☼	102	57 - 137
Chloroethane	ND	F1	2880	4080	F1	ug/Kg	☼	142	34 - 140
Chloroform	ND		2880	3370		ug/Kg	☼	117	64 - 133
Chloromethane	ND		2880	3990		ug/Kg	☼	139	47 - 143
cis-1,2-Dichloroethene	ND		2880	3380		ug/Kg	☼	117	65 - 137

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

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	ND		2880	3380		ug/Kg	☼	117	61 - 148
Cyclohexane	ND		2880	4100		ug/Kg	☼	142	63 - 149
Dichlorodifluoromethane	ND		2880	3570		ug/Kg	☼	124	26 - 150
Ethylbenzene	ND		2880	3650		ug/Kg	☼	127	67 - 136
1,2-Dibromoethane	ND		2880	3590		ug/Kg	☼	124	65 - 133
Isopropylbenzene	ND		2880	3830		ug/Kg	☼	133	65 - 147
Methyl acetate	ND		5760	7040		ug/Kg	☼	122	50 - 124
Methyl tert-butyl ether	ND	F1	2880	3820	F1	ug/Kg	☼	133	60 - 130
Methylcyclohexane	ND		2880	3930		ug/Kg	☼	137	67 - 150
Methylene Chloride	ND		2880	3740		ug/Kg	☼	130	63 - 138
Styrene	ND		2880	3460		ug/Kg	☼	120	68 - 137
Tetrachloroethene	ND		2880	3470		ug/Kg	☼	120	67 - 150
Toluene	ND		2880	3530		ug/Kg	☼	122	68 - 137
trans-1,2-Dichloroethene	ND		2880	3360		ug/Kg	☼	117	65 - 138
trans-1,3-Dichloropropene	ND		2880	3330		ug/Kg	☼	116	58 - 143
Trichloroethene	ND		2880	3600		ug/Kg	☼	125	69 - 143
Trichlorofluoromethane	ND		2880	3510		ug/Kg	☼	122	35 - 150
Vinyl chloride	ND		2880	3560		ug/Kg	☼	124	56 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*50 - 149*
1,2-Dichloroethane-d4 (Surr)	*97*		*53 - 146*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*
Dibromofluoromethane (Surr)	*95*		*60 - 140*

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		2880	3120		ug/Kg	☼	108	64 - 142	7	20
1,1,2,2-Tetrachloroethane	ND	F1	2880	4210	F1	ug/Kg	☼	146	56 - 128	10	20
1,1,2-Trichloroethane	ND		2880	3530		ug/Kg	☼	123	63 - 133	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2880	3870		ug/Kg	☼	134	64 - 154	1	20
1,1-Dichloroethane	ND		2880	3400		ug/Kg	☼	118	64 - 135	2	20
1,1-Dichloroethene	ND		2880	3450		ug/Kg	☼	120	62 - 145	6	20
1,2,4-Trichlorobenzene	ND		2880	3320		ug/Kg	☼	115	56 - 145	6	20
1,2-Dibromo-3-Chloropropane	ND		2880	3050		ug/Kg	☼	106	40 - 122	6	20
1,2-Dichlorobenzene	ND		2880	3120		ug/Kg	☼	108	68 - 133	6	20
1,2-Dichloroethane	ND		2880	3050		ug/Kg	☼	106	62 - 135	10	20
1,2-Dichloropropane	ND		2880	3190		ug/Kg	☼	111	67 - 139	10	20
1,3-Dichlorobenzene	ND		2880	3100		ug/Kg	☼	107	68 - 136	9	20
1,4-Dichlorobenzene	ND		2880	3200		ug/Kg	☼	111	69 - 136	0	20
2-Butanone (MEK)	ND		14400	17100		ug/Kg	☼	119	46 - 132	3	20
2-Hexanone	ND		14400	17200		ug/Kg	☼	119	44 - 130	0	20
4-Methyl-2-pentanone (MIBK)	ND		14400	16700		ug/Kg	☼	116	49 - 125	1	20
Acetone	ND		14400	17600		ug/Kg	☼	122	32 - 136	9	20
Benzene	ND		2880	3360		ug/Kg	☼	117	68 - 137	9	20

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

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585329

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	ND		2880	3020		ug/Kg	☼	105	62 - 136	4	20
Bromoform	ND		2880	2860		ug/Kg	☼	99	43 - 134	5	20
Bromomethane	ND		2880	3470		ug/Kg	☼	120	38 - 137	7	20
Carbon disulfide	ND		2880	3030		ug/Kg	☼	105	52 - 139	18	20
Carbon tetrachloride	ND		2880	2980		ug/Kg	☼	103	60 - 150	4	20
Chlorobenzene	ND		2880	3450		ug/Kg	☼	120	67 - 136	10	20
Dibromochloromethane	ND		2880	2740		ug/Kg	☼	95	57 - 137	7	20
Chloroethane	ND	F1	2880	3760		ug/Kg	☼	131	34 - 140	8	20
Chloroform	ND		2880	3110		ug/Kg	☼	108	64 - 133	8	20
Chloromethane	ND		2880	3820		ug/Kg	☼	133	47 - 143	4	20
cis-1,2-Dichloroethene	ND		2880	3260		ug/Kg	☼	113	65 - 137	4	20
cis-1,3-Dichloropropene	ND		2880	3320		ug/Kg	☼	115	61 - 148	2	20
Cyclohexane	ND		2880	3620		ug/Kg	☼	126	63 - 149	12	20
Dichlorodifluoromethane	ND		2880	3090		ug/Kg	☼	107	26 - 150	15	20
Ethylbenzene	ND		2880	3410		ug/Kg	☼	118	67 - 136	7	20
1,2-Dibromoethane	ND		2880	3260		ug/Kg	☼	113	65 - 133	10	20
Isopropylbenzene	ND		2880	3470		ug/Kg	☼	120	65 - 147	10	20
Methyl acetate	ND		5760	6740		ug/Kg	☼	117	50 - 124	4	20
Methyl tert-butyl ether	ND	F1	2880	3510		ug/Kg	☼	122	60 - 130	8	20
Methylcyclohexane	ND		2880	3610		ug/Kg	☼	125	67 - 150	9	20
Methylene Chloride	ND		2880	3580		ug/Kg	☼	124	63 - 138	4	20
Styrene	ND		2880	3390		ug/Kg	☼	118	68 - 137	2	20
Tetrachloroethene	ND		2880	3460		ug/Kg	☼	120	67 - 150	0	20
Toluene	ND		2880	3450		ug/Kg	☼	120	68 - 137	2	20
trans-1,2-Dichloroethene	ND		2880	3280		ug/Kg	☼	114	65 - 138	3	20
trans-1,3-Dichloropropene	ND		2880	3400		ug/Kg	☼	118	58 - 143	2	20
Trichloroethene	ND		2880	3350		ug/Kg	☼	116	69 - 143	7	20
Trichlorofluoromethane	ND		2880	3450		ug/Kg	☼	120	35 - 150	2	20
Vinyl chloride	ND		2880	3560		ug/Kg	☼	124	56 - 150	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*50 - 149*
1,2-Dichloroethane-d4 (Surr)	*96*		*53 - 146*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*
Dibromofluoromethane (Surr)	*93*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-584900/1-A
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		100	55	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		06/10/21 15:14	06/13/21 22:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-584900/1-A
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		170	35	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2-Chloronaphthalene	ND		170	28	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2-Chlorophenol	ND		330	31	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2-Methylnaphthalene	ND		170	34	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2-Methylphenol	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2-Nitroaniline	ND		330	25	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
2-Nitrophenol	ND		170	48	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
3-Nitroaniline	ND		330	47	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4-Chloroaniline	ND		170	42	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4-Nitroaniline	ND		330	89	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
4-Nitrophenol	ND		330	120	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Acenaphthene	ND		170	25	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Acenaphthylene	ND		170	22	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Acetophenone	ND		170	23	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Anthracene	ND		170	42	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Atrazine	ND		170	59	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Benzaldehyde	ND		170	130	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Benzo[a]anthracene	ND		170	17	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Benzo[a]pyrene	ND		170	25	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Biphenyl	ND		170	25	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Caprolactam	ND		170	51	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Carbazole	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Chrysene	ND		170	38	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Dibenzofuran	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Diethyl phthalate	ND		170	22	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Fluoranthene	ND		170	18	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Fluorene	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Hexachlorobenzene	ND		170	23	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Hexachlorobutadiene	ND		170	25	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Hexachloroethane	ND		170	22	ug/Kg		06/10/21 15:14	06/13/21 22:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-584900/1-A
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Isophorone	ND		170	36	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Methylphenol, 3 & 4	ND		330	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Naphthalene	ND		170	22	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Nitrobenzene	ND		170	19	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Pentachlorophenol	ND		330	170	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Phenanthrene	ND		170	25	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Phenol	ND		170	26	ug/Kg		06/10/21 15:14	06/13/21 22:50	1
Pyrene	ND		170	20	ug/Kg		06/10/21 15:14	06/13/21 22:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*54 - 120*	*06/10/21 15:14*	*06/13/21 22:50*	*1*
2-Fluorobiphenyl	*93*		*60 - 120*	*06/10/21 15:14*	*06/13/21 22:50*	*1*
2-Fluorophenol (Surr)	*82*		*52 - 120*	*06/10/21 15:14*	*06/13/21 22:50*	*1*
Nitrobenzene-d5 (Surr)	*87*		*53 - 120*	*06/10/21 15:14*	*06/13/21 22:50*	*1*
Phenol-d5 (Surr)	*81*		*54 - 120*	*06/10/21 15:14*	*06/13/21 22:50*	*1*
p-Terphenyl-d14 (Surr)	*104*		*79 - 130*	*06/10/21 15:14*	*06/13/21 22:50*	*1*

Lab Sample ID: LCS 480-584900/2-A
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1610	834		ug/Kg		52	23 - 120
2,4,5-Trichlorophenol	1610	1500		ug/Kg		93	59 - 126
2,4,6-Trichlorophenol	1610	1530		ug/Kg		95	59 - 123
2,4-Dichlorophenol	1610	1460		ug/Kg		90	61 - 120
2,4-Dimethylphenol	1610	1450		ug/Kg		90	59 - 120
2,4-Dinitrophenol	3230	2990		ug/Kg		93	41 - 146
2,4-Dinitrotoluene	1610	1560		ug/Kg		97	63 - 120
2,6-Dinitrotoluene	1610	1530		ug/Kg		95	66 - 120
2-Chloronaphthalene	1610	1420		ug/Kg		88	57 - 120
2-Chlorophenol	1610	1310		ug/Kg		81	53 - 120
2-Methylnaphthalene	1610	1390		ug/Kg		86	59 - 120
2-Methylphenol	1610	1420		ug/Kg		88	54 - 120
2-Nitroaniline	1610	1510		ug/Kg		94	61 - 120
2-Nitrophenol	1610	1400		ug/Kg		87	56 - 120
3,3'-Dichlorobenzidine	3230	3060		ug/Kg		95	54 - 120
3-Nitroaniline	1610	1430		ug/Kg		89	48 - 120
4,6-Dinitro-2-methylphenol	3230	3290		ug/Kg		102	49 - 122
4-Bromophenyl phenyl ether	1610	1610		ug/Kg		100	58 - 120
4-Chloro-3-methylphenol	1610	1520		ug/Kg		94	61 - 120
4-Chloroaniline	1610	1340		ug/Kg		83	38 - 120
4-Chlorophenyl phenyl ether	1610	1490		ug/Kg		92	63 - 124
4-Nitroaniline	1610	1590		ug/Kg		98	56 - 120
4-Nitrophenol	3230	3010		ug/Kg		93	43 - 147

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-584900/2-A
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1610	1430		ug/Kg		88	62 - 120
Acenaphthylene	1610	1480		ug/Kg		92	58 - 121
Acetophenone	1610	1340		ug/Kg		83	54 - 120
Anthracene	1610	1610		ug/Kg		100	62 - 120
Atrazine	3230	3020		ug/Kg		94	60 - 127
Benzaldehyde	3230	2810	E	ug/Kg		87	10 - 150
Benzo[a]anthracene	1610	1600		ug/Kg		99	65 - 120
Benzo[a]pyrene	1610	1550		ug/Kg		96	64 - 120
Benzo[b]fluoranthene	1610	1590		ug/Kg		99	64 - 120
Benzo[g,h,i]perylene	1610	1700		ug/Kg		105	45 - 145
Benzo[k]fluoranthene	1610	1580		ug/Kg		98	65 - 120
Biphenyl	1610	1410		ug/Kg		88	59 - 120
bis (2-chloroisopropyl) ether	1610	1320		ug/Kg		82	44 - 120
Bis(2-chloroethoxy)methane	1610	1390		ug/Kg		86	55 - 120
Bis(2-chloroethyl)ether	1610	1320		ug/Kg		82	45 - 120
Bis(2-ethylhexyl) phthalate	1610	1640		ug/Kg		101	61 - 133
Butyl benzyl phthalate	1610	1620		ug/Kg		101	61 - 129
Caprolactam	3230	3040		ug/Kg		94	47 - 120
Carbazole	1610	1630		ug/Kg		101	65 - 120
Chrysene	1610	1540		ug/Kg		95	64 - 120
Dibenz(a,h)anthracene	1610	1680		ug/Kg		104	54 - 132
Dibenzofuran	1610	1450		ug/Kg		90	63 - 120
Diethyl phthalate	1610	1580		ug/Kg		98	66 - 120
Dimethyl phthalate	1610	1560		ug/Kg		97	65 - 124
Di-n-butyl phthalate	1610	1680		ug/Kg		104	58 - 130
Di-n-octyl phthalate	1610	1670		ug/Kg		104	57 - 133
Fluoranthene	1610	1650		ug/Kg		102	62 - 120
Fluorene	1610	1490		ug/Kg		93	63 - 120
Hexachlorobenzene	1610	1610		ug/Kg		100	60 - 120
Hexachlorobutadiene	1610	1330		ug/Kg		82	45 - 120
Hexachlorocyclopentadiene	1610	1270		ug/Kg		78	47 - 120
Hexachloroethane	1610	1210		ug/Kg		75	41 - 120
Indeno[1,2,3-cd]pyrene	1610	1660		ug/Kg		103	56 - 134
Isophorone	1610	1480		ug/Kg		92	56 - 120
Methylphenol, 3 & 4	1610	1430		ug/Kg		89	55 - 120
Naphthalene	1610	1340		ug/Kg		83	55 - 120
Nitrobenzene	1610	1360		ug/Kg		85	54 - 120
N-Nitrosodi-n-propylamine	1610	1360		ug/Kg		85	52 - 120
N-Nitrosodiphenylamine	1610	1600		ug/Kg		99	51 - 128
Pentachlorophenol	3230	3280		ug/Kg		102	51 - 120
Phenanthrene	1610	1570		ug/Kg		97	60 - 120
Phenol	1610	1340		ug/Kg		83	53 - 120
Pyrene	1610	1580		ug/Kg		98	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*54 - 120*
2-Fluorobiphenyl	*90*		*60 - 120*
2-Fluorophenol (Surr)	*80*		*52 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-584900/2-A
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584900

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*53 - 120*
Phenol-d5 (Surr)	*82*		*54 - 120*
p-Terphenyl-d14 (Surr)	*97*		*79 - 130*

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		1890	1050		ug/Kg	☼	55	13 - 120
2,4,5-Trichlorophenol	ND		1890	1790		ug/Kg	☼	94	46 - 120
2,4,6-Trichlorophenol	ND		1890	1820		ug/Kg	☼	96	41 - 123
2,4-Dichlorophenol	ND		1890	1760		ug/Kg	☼	93	45 - 120
2,4-Dimethylphenol	ND		1890	1690		ug/Kg	☼	89	52 - 120
2,4-Dinitrophenol	ND		3790	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		1890	1860		ug/Kg	☼	98	63 - 125
2,6-Dinitrotoluene	ND		1890	1950		ug/Kg	☼	103	66 - 120
2-Chloronaphthalene	ND		1890	1690		ug/Kg	☼	89	57 - 120
2-Chlorophenol	ND		1890	1640	J	ug/Kg	☼	87	43 - 120
2-Methylnaphthalene	ND		1890	1740		ug/Kg	☼	92	55 - 120
2-Methylphenol	ND		1890	1630		ug/Kg	☼	86	48 - 120
2-Nitroaniline	ND		1890	1940		ug/Kg	☼	102	61 - 120
2-Nitrophenol	ND		1890	1760		ug/Kg	☼	93	37 - 120
3,3'-Dichlorobenzidine	ND		3790	3630		ug/Kg	☼	96	37 - 126
3-Nitroaniline	ND		1890	1870	J	ug/Kg	☼	98	48 - 120
4,6-Dinitro-2-methylphenol	ND		3790	3260		ug/Kg	☼	86	23 - 149
4-Bromophenyl phenyl ether	ND		1890	1830		ug/Kg	☼	97	58 - 120
4-Chloro-3-methylphenol	ND		1890	1780		ug/Kg	☼	94	49 - 125
4-Chloroaniline	ND		1890	1570		ug/Kg	☼	83	38 - 120
4-Chlorophenyl phenyl ether	ND		1890	1850		ug/Kg	☼	98	63 - 124
4-Nitroaniline	ND		1890	1780	J	ug/Kg	☼	94	47 - 120
4-Nitrophenol	ND		3790	3780		ug/Kg	☼	100	31 - 147
Acenaphthene	ND		1890	1790		ug/Kg	☼	94	60 - 120
Acenaphthylene	ND		1890	1780		ug/Kg	☼	94	58 - 121
Acetophenone	ND		1890	1620		ug/Kg	☼	86	47 - 120
Anthracene	ND		1890	1910		ug/Kg	☼	101	62 - 120
Atrazine	ND		3790	3760		ug/Kg	☼	99	60 - 150
Benzaldehyde	ND		3790	3380		ug/Kg	☼	89	10 - 150
Benzo[a]anthracene	590	J	1890	1830		ug/Kg	☼	65	65 - 120
Benzo[a]pyrene	750	J F1	1890	1850	F1	ug/Kg	☼	58	64 - 120
Benzo[b]fluoranthene	1100		1890	1890		ug/Kg	☼	44	10 - 150
Benzo[g,h,i]perylene	630	J	1890	1940		ug/Kg	☼	69	45 - 145
Benzo[k]fluoranthene	350	J	1890	1750		ug/Kg	☼	74	23 - 150
Biphenyl	ND		1890	1750		ug/Kg	☼	92	58 - 120
bis (2-chloroisopropyl) ether	ND		1890	1550		ug/Kg	☼	82	31 - 120
Bis(2-chloroethoxy)methane	ND		1890	1650		ug/Kg	☼	87	52 - 120
Bis(2-chloroethyl)ether	ND		1890	1540		ug/Kg	☼	81	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1890	1930		ug/Kg	☼	102	61 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	ND		1890	1880		ug/Kg	☼	99	61 - 120
Caprolactam	ND		3790	3620		ug/Kg	☼	95	37 - 133
Carbazole	ND		1890	1860		ug/Kg	☼	98	59 - 120
Chrysene	740	J F1	1890	1790	F1	ug/Kg	☼	55	64 - 120
Dibenz(a,h)anthracene	ND		1890	1960		ug/Kg	☼	103	54 - 132
Dibenzofuran	ND		1890	1850		ug/Kg	☼	98	62 - 120
Diethyl phthalate	ND		1890	1810		ug/Kg	☼	95	66 - 120
Dimethyl phthalate	ND		1890	1820		ug/Kg	☼	96	65 - 124
Di-n-butyl phthalate	ND		1890	1930		ug/Kg	☼	102	58 - 130
Di-n-octyl phthalate	ND		1890	1910		ug/Kg	☼	101	57 - 133
Fluoranthene	1400	F1	1890	1910	F1	ug/Kg	☼	27	62 - 120
Fluorene	150	J	1890	1910		ug/Kg	☼	92	63 - 120
Hexachlorobenzene	ND		1890	1790		ug/Kg	☼	95	60 - 120
Hexachlorobutadiene	ND		1890	1560		ug/Kg	☼	82	45 - 120
Hexachlorocyclopentadiene	ND		1890	1380		ug/Kg	☼	73	31 - 120
Hexachloroethane	ND		1890	1440		ug/Kg	☼	76	21 - 120
Indeno[1,2,3-cd]pyrene	570	J	1890	1990		ug/Kg	☼	75	56 - 134
Isophorone	ND		1890	1760		ug/Kg	☼	93	56 - 120
Methylphenol, 3 & 4	ND		1890	1680	J	ug/Kg	☼	88	50 - 120
Naphthalene	ND		1890	1640		ug/Kg	☼	87	46 - 120
Nitrobenzene	ND		1890	1670		ug/Kg	☼	88	49 - 120
N-Nitrosodi-n-propylamine	ND		1890	1770		ug/Kg	☼	93	46 - 120
N-Nitrosodiphenylamine	ND		1890	1880		ug/Kg	☼	99	20 - 128
Pentachlorophenol	ND		3790	3370		ug/Kg	☼	89	25 - 136
Phenanthrene	720	J F1	1890	1930		ug/Kg	☼	64	60 - 122
Phenol	ND		1890	1620		ug/Kg	☼	85	50 - 120
Pyrene	1100	F1	1890	1880	F1	ug/Kg	☼	39	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*54 - 120*
2-Fluorobiphenyl	*91*		*60 - 120*
2-Fluorophenol (Surr)	*78*		*52 - 120*
Nitrobenzene-d5 (Surr)	*90*		*53 - 120*
Phenol-d5 (Surr)	*83*		*54 - 120*
p-Terphenyl-d14 (Surr)	*93*		*79 - 130*

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1900	1210		ug/Kg	☼	64	13 - 120	14	50
2,4,5-Trichlorophenol	ND		1900	1970		ug/Kg	☼	104	46 - 120	10	18
2,4,6-Trichlorophenol	ND		1900	1830		ug/Kg	☼	97	41 - 123	1	19
2,4-Dichlorophenol	ND		1900	1720		ug/Kg	☼	90	45 - 120	2	19
2,4-Dimethylphenol	ND		1900	1650		ug/Kg	☼	87	52 - 120	2	42
2,4-Dinitrophenol	ND		3800	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		1900	1930		ug/Kg	☼	102	63 - 125	4	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	ND		1900	1810		ug/Kg	☼	95	66 - 120	7	15
2-Chloronaphthalene	ND		1900	1750		ug/Kg	☼	92	57 - 120	4	21
2-Chlorophenol	ND		1900	1560	J	ug/Kg	☼	82	43 - 120	5	25
2-Methylnaphthalene	ND		1900	1680		ug/Kg	☼	88	55 - 120	4	21
2-Methylphenol	ND		1900	1680		ug/Kg	☼	88	48 - 120	3	27
2-Nitroaniline	ND		1900	1850	J	ug/Kg	☼	97	61 - 120	5	15
2-Nitrophenol	ND		1900	1710		ug/Kg	☼	90	37 - 120	3	18
3,3'-Dichlorobenzidine	ND		3800	3640		ug/Kg	☼	96	37 - 126	0	25
3-Nitroaniline	ND		1900	1790	J	ug/Kg	☼	94	48 - 120	4	19
4,6-Dinitro-2-methylphenol	ND		3800	3530		ug/Kg	☼	93	23 - 149	8	15
4-Bromophenyl phenyl ether	ND		1900	1890		ug/Kg	☼	100	58 - 120	3	15
4-Chloro-3-methylphenol	ND		1900	1720		ug/Kg	☼	90	49 - 125	3	27
4-Chloroaniline	ND		1900	1620		ug/Kg	☼	85	38 - 120	3	22
4-Chlorophenyl phenyl ether	ND		1900	1920		ug/Kg	☼	101	63 - 124	4	16
4-Nitroaniline	ND		1900	1770	J	ug/Kg	☼	93	47 - 120	1	24
4-Nitrophenol	ND		3800	3700		ug/Kg	☼	97	31 - 147	2	25
Acenaphthene	ND		1900	1780		ug/Kg	☼	94	60 - 120	1	35
Acenaphthylene	ND		1900	1770		ug/Kg	☼	93	58 - 121	0	18
Acetophenone	ND		1900	1600		ug/Kg	☼	84	47 - 120	1	20
Anthracene	ND		1900	1880		ug/Kg	☼	99	62 - 120	2	15
Atrazine	ND		3800	3730		ug/Kg	☼	98	60 - 150	1	20
Benzaldehyde	ND		3800	3340		ug/Kg	☼	88	10 - 150	1	20
Benzo[a]anthracene	590	J	1900	1920		ug/Kg	☼	70	65 - 120	5	15
Benzo[a]pyrene	750	J F1	1900	1870	F1	ug/Kg	☼	59	64 - 120	1	15
Benzo[b]fluoranthene	1100		1900	1830		ug/Kg	☼	41	10 - 150	3	15
Benzo[g,h,i]perylene	630	J	1900	2000		ug/Kg	☼	72	45 - 145	3	15
Benzo[k]fluoranthene	350	J	1900	1930		ug/Kg	☼	83	23 - 150	10	22
Biphenyl	ND		1900	1830		ug/Kg	☼	96	58 - 120	4	20
bis (2-chloroisopropyl) ether	ND		1900	1530		ug/Kg	☼	81	31 - 120	1	24
Bis(2-chloroethoxy)methane	ND		1900	1680		ug/Kg	☼	88	52 - 120	2	17
Bis(2-chloroethyl)ether	ND		1900	1550		ug/Kg	☼	82	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND		1900	1910		ug/Kg	☼	101	61 - 133	1	15
Butyl benzyl phthalate	ND		1900	1790		ug/Kg	☼	94	61 - 120	5	16
Caprolactam	ND		3800	3670		ug/Kg	☼	96	37 - 133	1	20
Carbazole	ND		1900	1910		ug/Kg	☼	101	59 - 120	3	20
Chrysene	740	J F1	1900	1880	F1	ug/Kg	☼	60	64 - 120	5	15
Dibenz(a,h)anthracene	ND		1900	2040		ug/Kg	☼	107	54 - 132	4	15
Dibenzofuran	ND		1900	1790		ug/Kg	☼	94	62 - 120	3	15
Diethyl phthalate	ND		1900	1880		ug/Kg	☼	99	66 - 120	4	15
Dimethyl phthalate	ND		1900	1820		ug/Kg	☼	96	65 - 124	0	15
Di-n-butyl phthalate	ND		1900	1860		ug/Kg	☼	98	58 - 130	4	15
Di-n-octyl phthalate	ND		1900	1930		ug/Kg	☼	101	57 - 133	1	16
Fluoranthene	1400	F1	1900	1890	F1	ug/Kg	☼	26	62 - 120	1	15
Fluorene	150	J	1900	1830		ug/Kg	☼	88	63 - 120	4	15
Hexachlorobenzene	ND		1900	1920		ug/Kg	☼	101	60 - 120	7	15
Hexachlorobutadiene	ND		1900	1540		ug/Kg	☼	81	45 - 120	1	44
Hexachlorocyclopentadiene	ND		1900	1370		ug/Kg	☼	72	31 - 120	0	49
Hexachloroethane	ND		1900	1530		ug/Kg	☼	80	21 - 120	6	46
Indeno[1,2,3-cd]pyrene	570	J	1900	2010		ug/Kg	☼	76	56 - 134	1	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585163

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584900

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isophorone	ND		1900	1790		ug/Kg	☼	94	56 - 120	2	17
Methylphenol, 3 & 4	ND		1900	1650	J	ug/Kg	☼	87	50 - 120	1	24
Naphthalene	ND		1900	1600		ug/Kg	☼	84	46 - 120	3	29
Nitrobenzene	ND		1900	1600		ug/Kg	☼	84	49 - 120	4	24
N-Nitrosodi-n-propylamine	ND		1900	1660		ug/Kg	☼	87	46 - 120	6	31
N-Nitrosodiphenylamine	ND		1900	1790		ug/Kg	☼	94	20 - 128	5	15
Pentachlorophenol	ND		3800	3450		ug/Kg	☼	91	25 - 136	2	35
Phenanthrene	720	J F1	1900	1850	F1	ug/Kg	☼	59	60 - 122	4	15
Phenol	ND		1900	1650		ug/Kg	☼	87	50 - 120	2	35
Pyrene	1100	F1	1900	1870	F1	ug/Kg	☼	38	61 - 133	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*54 - 120*
2-Fluorobiphenyl	*91*		*60 - 120*
2-Fluorophenol (Surr)	*81*		*52 - 120*
Nitrobenzene-d5 (Surr)	*87*		*53 - 120*
Phenol-d5 (Surr)	*83*		*54 - 120*
p-Terphenyl-d14 (Surr)	*98*		*79 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-584987/1-A
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
4,4'-DDT	0.752	J	1.7	0.39	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Aldrin	ND		1.7	0.41	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
alpha-BHC	ND		1.7	0.30	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
beta-BHC	ND		1.7	0.30	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
delta-BHC	ND		1.7	0.31	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Dieldrin	ND		1.7	0.40	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Endosulfan I	ND		1.7	0.32	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Endosulfan II	ND		1.7	0.30	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Endrin	ND		1.7	0.33	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Endrin ketone	0.531	J	1.7	0.41	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Heptachlor	ND		1.7	0.36	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Methoxychlor	ND		1.7	0.34	ug/Kg		06/11/21 09:04	06/11/21 14:43	1
Toxaphene	ND		17	9.6	ug/Kg		06/11/21 09:04	06/11/21 14:43	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-584987/1-A
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584987

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		45 - 120	06/11/21 09:04	06/11/21 14:43	1
DCB Decachlorobiphenyl	67		45 - 120	06/11/21 09:04	06/11/21 14:43	1
Tetrachloro-m-xylene	62		30 - 124	06/11/21 09:04	06/11/21 14:43	1
Tetrachloro-m-xylene	54		30 - 124	06/11/21 09:04	06/11/21 14:43	1

Lab Sample ID: LCS 480-584987/2-A
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.6	13.6		ug/Kg		82	56 - 120
4,4'-DDE	16.6	11.3		ug/Kg		68	44 - 120
4,4'-DDT	16.6	13.1		ug/Kg		79	38 - 120
Aldrin	16.6	9.22		ug/Kg		55	38 - 120
alpha-BHC	16.6	10.6		ug/Kg		64	39 - 120
cis-Chlordane	16.6	11.5		ug/Kg		69	47 - 120
beta-BHC	16.6	12.3		ug/Kg		74	40 - 120
delta-BHC	16.6	9.85		ug/Kg		59	45 - 120
Dieldrin	16.6	12.0		ug/Kg		72	58 - 120
Endosulfan I	16.6	11.4		ug/Kg		68	49 - 120
Endosulfan II	16.6	12.3		ug/Kg		74	55 - 120
Endosulfan sulfate	16.6	11.1		ug/Kg		67	49 - 124
Endrin	16.6	12.2		ug/Kg		74	58 - 120
Endrin aldehyde	16.6	10.1		ug/Kg		61	37 - 121
Endrin ketone	16.6	12.6		ug/Kg		75	46 - 123
gamma-BHC (Lindane)	16.6	11.3		ug/Kg		68	50 - 120
trans-Chlordane	16.6	10.7		ug/Kg		64	48 - 120
Heptachlor	16.6	11.7		ug/Kg		71	50 - 120
Heptachlor epoxide	16.6	9.75		ug/Kg		59	50 - 120
Methoxychlor	16.6	13.0		ug/Kg		78	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	70		45 - 120
DCB Decachlorobiphenyl	69		45 - 120
Tetrachloro-m-xylene	66		30 - 124
Tetrachloro-m-xylene	62		30 - 124

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1 F2	19.0	2.87	F1	ug/Kg	☼	15	37 - 126
4,4'-DDE	ND	F1 F2	19.0	2.11	F1	ug/Kg	☼	11	34 - 120
4,4'-DDT	1.1	J B F1 F2	19.0	3.81	F1	ug/Kg	☼	14	43 - 123
Aldrin	ND	F1 F2	19.0	1.37	J F1	ug/Kg	☼	7	37 - 125
alpha-BHC	ND	F1 F2	19.0	1.68	J F1	ug/Kg	☼	9	39 - 120
cis-Chlordane	14	F1 F2	19.0	4.03	F1	ug/Kg	☼	-50	35 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND	F1 F2	19.0	2.58	F1	ug/Kg	☼	14	36 - 120
delta-BHC	ND	F1 F2	19.0	2.01	F1	ug/Kg	☼	11	34 - 120
Dieldrin	ND	F1 F2	19.0	2.23	F1	ug/Kg	☼	12	45 - 120
Endosulfan I	ND	F1 F2	19.0	1.84	J F1	ug/Kg	☼	10	39 - 120
Endosulfan II	ND	F1 F2	19.0	2.44	F1	ug/Kg	☼	13	34 - 126
Endosulfan sulfate	ND	F1 F2	19.0	3.06	F1	ug/Kg	☼	16	27 - 130
Endrin	ND	F1 F2	19.0	2.30	F1	ug/Kg	☼	12	47 - 121
Endrin aldehyde	ND	F1 F2	19.0	2.69	F1	ug/Kg	☼	14	33 - 123
Endrin ketone	ND	F1 F2	19.0	3.46	F1	ug/Kg	☼	18	43 - 126
gamma-BHC (Lindane)	ND	F1 F2	19.0	1.75	J F1	ug/Kg	☼	9	50 - 120
trans-Chlordane	11	F1 F2	19.0	14.9	F1	ug/Kg	☼	22	31 - 120
Heptachlor	ND	F1 F2	19.0	1.59	J F1	ug/Kg	☼	8	42 - 120
Heptachlor epoxide	ND	F1 F2	19.0	1.87	J F1	ug/Kg	☼	10	40 - 120
Methoxychlor	1.7	J F1 F2	19.0	3.61	F1	ug/Kg	☼	10	44 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*16*	*S1-*	*45 - 120*
DCB Decachlorobiphenyl	*15*	*S1-*	*45 - 120*
Tetrachloro-m-xylene	*18*	*S1-*	*30 - 124*
Tetrachloro-m-xylene	*7*	*S1-*	*30 - 124*

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1 F2	18.8	99.2	E F1 F2	ug/Kg	☼	526	37 - 126	189	21
4,4'-DDE	ND	F1 F2	18.8	271	E F1 F2	ug/Kg	☼	1439	34 - 120	197	18
4,4'-DDT	1.1	J B F1 F2	18.8	470	E F1 F2	ug/Kg	☼	2488	43 - 123	197	25
Aldrin	ND	F1 F2	18.8	25.4	F1 F2	ug/Kg	☼	135	37 - 125	180	12
alpha-BHC	ND	F1 F2	18.8	23.8	F1 F2	ug/Kg	☼	127	39 - 120	174	15
cis-Chlordane	14	F1 F2	18.8	44.5	F1 F2	ug/Kg	☼	164	35 - 120	167	23
beta-BHC	ND	F1 F2	18.8	24.3	F1 F2	ug/Kg	☼	129	36 - 120	162	19
delta-BHC	ND	F1 F2	18.8	24.5	F1 F2	ug/Kg	☼	130	34 - 120	170	14
Dieldrin	ND	F1 F2	18.8	37.1	F1 F2	ug/Kg	☼	197	45 - 120	177	12
Endosulfan I	ND	F1 F2	18.8	28.3	F1 F2	ug/Kg	☼	150	39 - 120	176	18
Endosulfan II	ND	F1 F2	18.8	34.8	F1 F2	ug/Kg	☼	184	34 - 126	174	26
Endosulfan sulfate	ND	F1 F2	18.8	35.1	F1 F2	ug/Kg	☼	186	27 - 130	168	35
Endrin	ND	F1 F2	18.8	31.0	F1 F2	ug/Kg	☼	165	47 - 121	172	20
Endrin aldehyde	ND	F1 F2	18.8	31.1	F1 F2	ug/Kg	☼	165	33 - 123	168	47
Endrin ketone	ND	F1 F2	18.8	48.4	F1 F2	ug/Kg	☼	257	43 - 126	173	37
gamma-BHC (Lindane)	ND	F1 F2	18.8	24.1	F1 F2	ug/Kg	☼	128	50 - 120	173	12
trans-Chlordane	11	F1 F2	18.8	63.7	E F1 F2	ug/Kg	☼	281	31 - 120	124	15
Heptachlor	ND	F1 F2	18.8	26.9	F1 F2	ug/Kg	☼	143	42 - 120	178	22
Heptachlor epoxide	ND	F1 F2	18.8	30.9	F1 F2	ug/Kg	☼	164	40 - 120	177	15
Methoxychlor	1.7	J F1 F2	18.8	63.5	E F1 F2	ug/Kg	☼	328	44 - 150	178	24

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 584953

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584987

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*187*	*S1+*	*45 - 120*
DCB Decachlorobiphenyl	*322*	*S1+*	*45 - 120*
Tetrachloro-m-xylene	*153*	*S1+*	*30 - 124*
Tetrachloro-m-xylene	*134*	*S1+*	*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-585080/1-A
Matrix: Solid
Analysis Batch: 585155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		220	42	ug/Kg		06/11/21 14:40	06/13/21 22:04	1
PCB-1221	ND		220	42	ug/Kg		06/11/21 14:40	06/13/21 22:04	1
PCB-1232	ND		220	42	ug/Kg		06/11/21 14:40	06/13/21 22:04	1
PCB-1242	ND		220	42	ug/Kg		06/11/21 14:40	06/13/21 22:04	1
PCB-1248	ND		220	42	ug/Kg		06/11/21 14:40	06/13/21 22:04	1
PCB-1254	ND		220	100	ug/Kg		06/11/21 14:40	06/13/21 22:04	1
PCB-1260	ND		220	100	ug/Kg		06/11/21 14:40	06/13/21 22:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*157*		*65 - 174*	*06/11/21 14:40*	*06/13/21 22:04*	*1*
DCB Decachlorobiphenyl	*136*		*65 - 174*	*06/11/21 14:40*	*06/13/21 22:04*	*1*
Tetrachloro-m-xylene	*131*		*60 - 154*	*06/11/21 14:40*	*06/13/21 22:04*	*1*
Tetrachloro-m-xylene	*143*		*60 - 154*	*06/11/21 14:40*	*06/13/21 22:04*	*1*

Lab Sample ID: LCS 480-585080/2-A
Matrix: Solid
Analysis Batch: 585302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585080

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2430	3070		ug/Kg		126	51 - 185		
PCB-1260			2430	3150		ug/Kg		130	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*143*		*65 - 174*
DCB Decachlorobiphenyl	*128*		*65 - 174*
Tetrachloro-m-xylene	*123*		*60 - 154*
Tetrachloro-m-xylene	*128*		*60 - 154*

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585155

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2510	3320		ug/Kg	☼	132	50 - 177		
PCB-1260	ND		2510	4270		ug/Kg	☼	170	33 - 200		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585155

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585080

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*186*	*S1+*	*65 - 174*
DCB Decachlorobiphenyl	*168*		*65 - 174*
Tetrachloro-m-xylene	*143*		*60 - 154*
Tetrachloro-m-xylene	*155*	*S1+*	*60 - 154*

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585155

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 585080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2000	2400		ug/Kg	☼	120	50 - 177	32	50
PCB-1260	ND		2000	2960		ug/Kg	☼	148	33 - 200	36	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*166*		*65 - 174*
DCB Decachlorobiphenyl	*151*		*65 - 174*
Tetrachloro-m-xylene	*129*		*60 - 154*
Tetrachloro-m-xylene	*143*		*60 - 154*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-167997/1-A
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50	0.16	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.039	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.022	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.020	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.025	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.018	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.012	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.020	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.021	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.015	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.023	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorobutanesulfonic acid (PFBS)	0.00941	J	0.20	0.0093	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.014	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.20	0.015	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.016	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.012	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.017	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.037	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.046	ug/Kg		06/16/21 09:09	06/17/21 15:47	1

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

Lab Sample ID: MB 200-167997/1-A
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0	0.031	ug/Kg		06/16/21 09:09	06/17/21 15:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.016	ug/Kg		06/16/21 09:09	06/17/21 15:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*76*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C4 PFHpA	*93*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C4 PFOA	*94*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C4 PFOS	*75*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C5 PFNA	*91*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C4 PFBA	*88*		*25 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C2 PFHxA	*89*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C2 PFDA	*93*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C2 PFUnA	*81*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C2 PFDoA	*75*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C8 FOSA	*68*		*25 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C5 PFPeA	*92*		*25 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C2 PFTeDA	*82*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
d3-NMeFOSAA	*99*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
d5-NEtFOSAA	*100*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
M2-6:2 FTS	*87*		*25 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*
13C3 PFBS	*79*		*50 - 150*	*06/16/21 09:09*	*06/17/21 15:47*	*1*

Lab Sample ID: LCS 200-167997/2-A
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.16		ug/Kg		108	70 - 130
Perfluoropentanoic acid (PFPeA)	2.00	2.00		ug/Kg		100	70 - 130
Perfluorohexanoic acid (PFHxA)	2.00	2.05		ug/Kg		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.00	2.01		ug/Kg		100	70 - 130
Perfluorooctanoic acid (PFOA)	2.00	2.16		ug/Kg		108	70 - 130
Perfluorononanoic acid (PFNA)	2.00	2.06		ug/Kg		103	70 - 130
Perfluorodecanoic acid (PFDA)	2.00	2.08		ug/Kg		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	2.00	1.98		ug/Kg		99	70 - 130
Perfluorododecanoic acid (PFDoA)	2.00	2.11		ug/Kg		105	70 - 130
Perfluorotridecanoic acid (PFTriA)	2.00	2.03		ug/Kg		102	70 - 130
Perfluorotetradecanoic acid (PFTeA)	2.00	1.98		ug/Kg		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	1.77	1.95		ug/Kg		110	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.94		ug/Kg		107	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.00		ug/Kg		105	70 - 130

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

Lab Sample ID: LCS 200-167997/2-A
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	1.86	1.87		ug/Kg		101	70 - 130
Perfluorodecanesulfonic acid (PFDS)	1.93	1.67		ug/Kg		87	70 - 130
Perfluorooctanesulfonamide (PFOSA)	2.00	2.02		ug/Kg		101	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.93	J	ug/Kg		97	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.94	J	ug/Kg		97	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.90	2.07		ug/Kg		109	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.92	1.96	J	ug/Kg		102	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
18O2 PFHxS	*69*		*50 - 150*
13C4 PFHpA	*84*		*50 - 150*
13C4 PFOA	*85*		*50 - 150*
13C4 PFOS	*72*		*50 - 150*
13C5 PFNA	*84*		*50 - 150*
13C4 PFBA	*79*		*25 - 150*
13C2 PFHxA	*86*		*50 - 150*
13C2 PFDA	*87*		*50 - 150*
13C2 PFUnA	*79*		*50 - 150*
13C2 PFDoA	*74*		*50 - 150*
13C8 FOSA	*62*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFTeDA	*73*		*50 - 150*
d3-NMeFOSAA	*97*		*50 - 150*
d5-NEtFOSAA	*95*		*50 - 150*
M2-6:2 FTS	*83*		*25 - 150*
M2-8:2 FTS	*91*		*25 - 150*
13C3 PFBS	*70*		*50 - 150*

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 167997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	ND		2.31	2.57		ug/Kg	☼	111	70 - 130
Perfluoropentanoic acid (PFPeA)	ND		2.31	2.43		ug/Kg	☼	105	70 - 130
Perfluorohexanoic acid (PFHxA)	ND		2.31	2.41		ug/Kg	☼	104	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		2.31	2.40		ug/Kg	☼	104	70 - 130
Perfluorooctanoic acid (PFOA)	ND		2.31	2.41		ug/Kg	☼	105	70 - 130
Perfluorononanoic acid (PFNA)	ND		2.31	2.44		ug/Kg	☼	106	70 - 130
Perfluorodecanoic acid (PFDA)	ND		2.31	2.35		ug/Kg	☼	102	70 - 130
Perfluoroundecanoic acid (PFUnA)	ND		2.31	2.47		ug/Kg	☼	107	70 - 130
Perfluorododecanoic acid (PFDoA)	ND		2.31	2.37		ug/Kg	☼	103	70 - 130

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

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 167997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic acid (PFTriA)	ND		2.31	2.54		ug/Kg	☼	110	70 - 130
Perfluorotetradecanoic acid (PFTeA)	ND		2.31	2.47		ug/Kg	☼	107	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.015	J I B	2.04	2.17		ug/Kg	☼	106	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.021	J	2.10	2.06		ug/Kg	☼	97	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.19	2.23		ug/Kg	☼	101	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.18	J	2.14	2.37		ug/Kg	☼	103	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		2.22	2.28		ug/Kg	☼	103	70 - 130
Perfluorooctanesulfonamide (PFOSA)	ND		2.31	2.33		ug/Kg	☼	101	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.31	2.30		ug/Kg	☼	100	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.31	2.26	J	ug/Kg	☼	98	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.19	2.28	J	ug/Kg	☼	104	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.21	2.42		ug/Kg	☼	110	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*66*		*50 - 150*
13C4 PFHpA	*81*		*50 - 150*
13C4 PFOA	*84*		*50 - 150*
13C4 PFOS	*65*		*50 - 150*
13C5 PFNA	*83*		*50 - 150*
13C4 PFBA	*80*		*25 - 150*
13C2 PFHxA	*86*		*50 - 150*
13C2 PFDA	*88*		*50 - 150*
13C2 PFUnA	*82*		*50 - 150*
13C2 PFDoA	*79*		*50 - 150*
13C8 FOSA	*65*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFTeDA	*78*		*50 - 150*
d3-NMeFOSAA	*91*		*50 - 150*
d5-NEtFOSAA	*98*		*50 - 150*
M2-6:2 FTS	*65*		*25 - 150*
M2-8:2 FTS	*74*		*25 - 150*
13C3 PFBS	*63*		*50 - 150*

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 167997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		2.33	2.49		ug/Kg	☼	107	70 - 130	3	20
Perfluoropentanoic acid (PFPeA)	ND		2.33	2.53		ug/Kg	☼	109	70 - 130	4	20

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

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 167997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	ND		2.33	2.40		ug/Kg	☼	103	70 - 130	0	20
Perfluoroheptanoic acid (PFHpA)	ND		2.33	2.56		ug/Kg	☼	110	70 - 130	6	20
Perfluorooctanoic acid (PFOA)	ND		2.33	2.46		ug/Kg	☼	105	70 - 130	2	20
Perfluorononanoic acid (PFNA)	ND		2.33	2.43		ug/Kg	☼	104	70 - 130	1	20
Perfluorodecanoic acid (PFDA)	ND		2.33	2.60		ug/Kg	☼	112	70 - 130	10	20
Perfluoroundecanoic acid (PFUnA)	ND		2.33	2.27		ug/Kg	☼	98	70 - 130	8	20
Perfluorododecanoic acid (PFDoA)	ND		2.33	2.43		ug/Kg	☼	104	70 - 130	2	20
Perfluorotridecanoic acid (PFTriA)	ND		2.33	2.57		ug/Kg	☼	110	70 - 130	1	20
Perfluorotetradecanoic acid (PFTeA)	ND		2.33	2.39		ug/Kg	☼	103	70 - 130	3	20
Perfluorobutanesulfonic acid (PFBS)	0.015	J I B	2.06	2.15		ug/Kg	☼	104	70 - 130	1	20
Perfluorohexanesulfonic acid (PFHxS)	0.021	J	2.12	2.18		ug/Kg	☼	102	70 - 130	5	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.22	2.16		ug/Kg	☼	98	70 - 130	3	20
Perfluorooctanesulfonic acid (PFOS)	0.18	J	2.16	2.26		ug/Kg	☼	96	70 - 130	5	20
Perfluorodecanesulfonic acid (PFDS)	ND		2.24	2.15		ug/Kg	☼	96	70 - 130	6	20
Perfluorooctanesulfonamide (PFOSA)	ND		2.33	2.37		ug/Kg	☼	102	70 - 130	2	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.33	2.40		ug/Kg	☼	103	70 - 130	4	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.33	2.18	J	ug/Kg	☼	94	70 - 130	3	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.21	2.48		ug/Kg	☼	112	70 - 130	8	20
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.23	2.18	J	ug/Kg	☼	98	70 - 130	11	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*64*		*50 - 150*
13C4 PFHpA	*80*		*50 - 150*
13C4 PFOA	*84*		*50 - 150*
13C4 PFOS	*67*		*50 - 150*
13C5 PFNA	*84*		*50 - 150*
13C4 PFBA	*80*		*25 - 150*
13C2 PFHxA	*83*		*50 - 150*
13C2 PFDA	*79*		*50 - 150*
13C2 PFUnA	*80*		*50 - 150*
13C2 PFDoA	*75*		*50 - 150*
13C8 FOSA	*62*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C2 PFTeDA	*78*		*50 - 150*
d3-NMeFOSAA	*97*		*50 - 150*
d5-NEtFOSAA	*94*		*50 - 150*
M2-6:2 FTS	*63*		*25 - 150*
M2-8:2 FTS	*74*		*25 - 150*

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

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 168061

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 167997

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 PFBS	64		50 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-584913/1-A
Matrix: Solid
Analysis Batch: 585401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.1	4.5	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Antimony	ND		15.2	0.40	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Arsenic	ND		2.0	0.40	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Barium	ND		0.51	0.11	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Beryllium	ND		0.20	0.028	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Cadmium	ND		0.20	0.030	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Calcium	ND		50.6	3.3	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Chromium	ND		0.51	0.20	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Cobalt	ND		0.51	0.051	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Copper	ND		1.0	0.21	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Iron	ND		10.1	3.5	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Lead	ND		1.0	0.24	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Magnesium	ND		20.2	0.94	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Manganese	0.141	J	0.20	0.032	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Nickel	ND		5.1	0.23	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Potassium	ND		30.4	20.2	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Selenium	ND		4.0	0.40	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Silver	ND		0.61	0.20	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Sodium	ND		142	13.2	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Thallium	ND		6.1	0.30	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Vanadium	ND		0.51	0.11	mg/Kg		06/11/21 10:17	06/14/21 15:31	1
Zinc	ND		2.0	0.65	mg/Kg		06/11/21 10:17	06/14/21 15:31	1

Lab Sample ID: LCSSRM 480-584913/2-A
Matrix: Solid
Analysis Batch: 585401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584913

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8651		mg/Kg		105.6	50.1 - 150.2
Antimony	110	85.32		mg/Kg		77.6	22.2 - 254.5
Arsenic	162	132.8		mg/Kg		82.0	70.4 - 130.2
Barium	138	115.9		mg/Kg		84.0	74.6 - 124.6
Beryllium	157	138.3		mg/Kg		88.1	75.2 - 125.5
Cadmium	135	124.4		mg/Kg		92.2	74.8 - 124.4
Calcium	4790	4277		mg/Kg		89.3	72.7 - 127.3

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-584913/2-A
Matrix: Solid
Analysis Batch: 585401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584913

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	117	96.00		mg/Kg		82.1	70.1 - 129.9
Cobalt	92.6	97.13		mg/Kg		104.9	75.1 - 125.3
Copper	143	116.7		mg/Kg		81.6	74.8 - 124.5
Iron	15100	10900		mg/Kg		72.2	37.2 - 162.9
Lead	77.6	71.12		mg/Kg		91.6	68.8 - 131.4
Magnesium	2320	2056		mg/Kg		88.6	62.1 - 137.9
Manganese	319	292.6		mg/Kg		91.7	74.9 - 125.1
Nickel	79.9	83.39		mg/Kg		104.4	70.0 - 130.2
Potassium	2050	1860		mg/Kg		90.7	59.5 - 141.0
Selenium	172	148.6		mg/Kg		86.4	68.0 - 132.6
Silver	24.7	19.06		mg/Kg		77.2	67.2 - 133.2
Sodium	137	138.0	J	mg/Kg		100.7	35.8 - 164.2
Thallium	88.0	86.73		mg/Kg		98.6	66.0 - 134.1
Vanadium	99.9	80.68		mg/Kg		80.8	67.4 - 132.1
Zinc	312	262.5		mg/Kg		84.1	69.9 - 129.8

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585401

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10300		2340	18000	4	mg/Kg	☼	331	75 - 125
Antimony	ND	F1 F2	46.7	23.21	F1	mg/Kg	☼	50	75 - 125
Arsenic	4.6		46.7	41.13		mg/Kg	☼	78	75 - 125
Barium	47.1		46.7	103.0		mg/Kg	☼	120	75 - 125
Beryllium	0.37		46.7	35.19		mg/Kg	☼	75	75 - 125
Cadmium	0.15	J	46.7	35.65		mg/Kg	☼	76	75 - 125
Calcium	29100	F2	2330	3932	4	mg/Kg	☼	-1078	75 - 125
Chromium	14.8		46.7	50.92		mg/Kg	☼	77	75 - 125
Cobalt	6.2		46.7	56.10		mg/Kg	☼	107	75 - 125
Copper	28.0	F1	46.7	47.30	F1	mg/Kg	☼	41	75 - 125
Iron	14500		2330	20360	4 ^+	mg/Kg	☼	253	75 - 125
Lead	23.1	F1	46.7	63.95		mg/Kg	☼	87	75 - 125
Magnesium	13100	F2	2330	4628	4	mg/Kg	☼	-364	75 - 125
Manganese	393	B F2	46.7	198.0	4 ^+	mg/Kg	☼	-417	75 - 125
Nickel	13.1		46.7	65.09		mg/Kg	☼	111	75 - 125
Potassium	1580	F1	2340	5274	F1	mg/Kg	☼	158	75 - 125
Selenium	0.61	J	46.7	35.89		mg/Kg	☼	76	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-185607-4 MS
Matrix: Solid
Analysis Batch: 585401

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		11.7	9.00		mg/Kg	☼	77	75 - 125
Sodium	161	J F2	2340	1942		mg/Kg	☼	76	75 - 125
Thallium	ND		46.7	47.22		mg/Kg	☼	101	75 - 125
Vanadium	19.1		46.7	62.35		mg/Kg	☼	93	75 - 125
Zinc	48.5	F1 F2	46.7	106.6		mg/Kg	☼	124	75 - 125

Lab Sample ID: 480-185607-4 MSD
Matrix: Solid
Analysis Batch: 585401

Client Sample ID: 828109-BS-11-13-14-060221
Prep Type: Total/NA
Prep Batch: 584913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10300		2480	17850	4	mg/Kg	☼	306	75 - 125	1	20
Antimony	ND	F1 F2	49.5	30.30	F1 F2	mg/Kg	☼	61	75 - 125	27	20
Arsenic	4.6		49.5	46.23		mg/Kg	☼	84	75 - 125	12	20
Barium	47.1		49.5	98.70		mg/Kg	☼	104	75 - 125	4	20
Beryllium	0.37		49.5	41.93		mg/Kg	☼	84	75 - 125	17	20
Cadmium	0.15	J	49.5	43.29		mg/Kg	☼	87	75 - 125	19	20
Calcium	29100	F2	2470	19950	4 F2	mg/Kg	☼	-370	75 - 125	134	20
Chromium	14.8		49.5	57.72		mg/Kg	☼	87	75 - 125	13	20
Cobalt	6.2		49.5	56.95		mg/Kg	☼	103	75 - 125	1	20
Copper	28.0	F1	49.5	54.01	F1	mg/Kg	☼	53	75 - 125	13	20
Iron	14500		2470	18180	4 ^+	mg/Kg	☼	150	75 - 125	11	20
Lead	23.1	F1	49.5	56.73	F1	mg/Kg	☼	68	75 - 125	12	20
Magnesium	13100	F2	2470	9050	4 F2	mg/Kg	☼	-165	75 - 125	65	20
Manganese	393	B F2	49.5	470.1	4 F2 ^+	mg/Kg	☼	157	75 - 125	81	20
Nickel	13.1		49.5	64.80		mg/Kg	☼	104	75 - 125	0	20
Potassium	1580	F1	2480	5890	F1	mg/Kg	☼	174	75 - 125	11	20
Selenium	0.61	J	49.5	43.70		mg/Kg	☼	87	75 - 125	20	20
Silver	ND		12.4	10.73		mg/Kg	☼	87	75 - 125	18	20
Sodium	161	J F2	2480	2517	F2	mg/Kg	☼	95	75 - 125	26	20
Thallium	ND		49.5	48.62		mg/Kg	☼	98	75 - 125	3	20
Vanadium	19.1		49.5	70.63		mg/Kg	☼	104	75 - 125	12	20
Zinc	48.5	F1 F2	49.5	68.59	F1 F2	mg/Kg	☼	41	75 - 125	43	20

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

GC/MS VOA

Analysis Batch: 584777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-6	TB-01	Total/NA	Water	8260C	
MB 480-584777/7	Method Blank	Total/NA	Water	8260C	
LCS 480-584777/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 584982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	8260C	585031
MB 480-585031/2-A	Method Blank	Total/NA	Solid	8260C	585031
LCS 480-585031/1-A	Lab Control Sample	Total/NA	Solid	8260C	585031

Prep Batch: 585031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	5035A_L	
MB 480-585031/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-585031/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Prep Batch: 585183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-1	828109-BS-13-10-12-060121	Total/NA	Solid	5035A_H	
480-185607-2	828109-BS-14-10-11-060121	Total/NA	Solid	5035A_H	
480-185607-3	828109-BS-12-14-15-060221	Total/NA	Solid	5035A_H	
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	5035A_H	
MB 480-585183/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-585183/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	5035A_H	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	5035A_H	

Analysis Batch: 585329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-1	828109-BS-13-10-12-060121	Total/NA	Solid	8260C	585183
480-185607-2	828109-BS-14-10-11-060121	Total/NA	Solid	8260C	585183
480-185607-3	828109-BS-12-14-15-060221	Total/NA	Solid	8260C	585183
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	8260C	585183
MB 480-585183/2-A	Method Blank	Total/NA	Solid	8260C	585183
LCS 480-585183/1-A	Lab Control Sample	Total/NA	Solid	8260C	585183
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	8260C	585183
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	8260C	585183

GC/MS Semi VOA

Prep Batch: 584900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-1	828109-BS-13-10-12-060121	Total/NA	Solid	3550C	
480-185607-2	828109-BS-14-10-11-060121	Total/NA	Solid	3550C	
480-185607-3	828109-BS-12-14-15-060221	Total/NA	Solid	3550C	
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	3550C	
MB 480-584900/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-584900/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

GC/MS Semi VOA

Analysis Batch: 585163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-1	828109-BS-13-10-12-060121	Total/NA	Solid	8270D	584900
480-185607-2	828109-BS-14-10-11-060121	Total/NA	Solid	8270D	584900
480-185607-3	828109-BS-12-14-15-060221	Total/NA	Solid	8270D	584900
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	8270D	584900
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	8270D	584900
MB 480-584900/1-A	Method Blank	Total/NA	Solid	8270D	584900
LCS 480-584900/2-A	Lab Control Sample	Total/NA	Solid	8270D	584900
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	8270D	584900
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	8270D	584900

GC Semi VOA

Analysis Batch: 584953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	8081B	584987
MB 480-584987/1-A	Method Blank	Total/NA	Solid	8081B	584987
LCS 480-584987/2-A	Lab Control Sample	Total/NA	Solid	8081B	584987
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	8081B	584987
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	8081B	584987

Prep Batch: 584987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	3550C	
MB 480-584987/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-584987/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	

Prep Batch: 585080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	3550C	
MB 480-585080/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-585080/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	3550C	

Analysis Batch: 585155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	8082A	585080
MB 480-585080/1-A	Method Blank	Total/NA	Solid	8082A	585080
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	8082A	585080
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	8082A	585080

Analysis Batch: 585200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	8081B	584987

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

GC Semi VOA

Analysis Batch: 585302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	8082A	585080
LCS 480-585080/2-A	Lab Control Sample	Total/NA	Solid	8082A	585080

LCMS

Prep Batch: 167997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	SHAKE	
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	SHAKE	
MB 200-167997/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-167997/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	SHAKE	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	SHAKE	

Analysis Batch: 168061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	537 (modified)	167997
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	537 (modified)	167997
MB 200-167997/1-A	Method Blank	Total/NA	Solid	537 (modified)	167997
LCS 200-167997/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	167997
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	537 (modified)	167997
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	537 (modified)	167997

Metals

Prep Batch: 584913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	3050B	
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	3050B	
MB 480-584913/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-584913/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	3050B	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	3050B	

Analysis Batch: 585401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	6010C	584913
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	6010C	584913
MB 480-584913/1-A	Method Blank	Total/NA	Solid	6010C	584913
LCSSRM 480-584913/2-A	Lab Control Sample	Total/NA	Solid	6010C	584913
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	6010C	584913
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	6010C	584913

General Chemistry

Analysis Batch: 585325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-1	828109-BS-13-10-12-060121	Total/NA	Solid	Moisture	
480-185607-2	828109-BS-14-10-11-060121	Total/NA	Solid	Moisture	
480-185607-3	828109-BS-12-14-15-060221	Total/NA	Solid	Moisture	
480-185607-4	828109-BS-11-13-14-060221	Total/NA	Solid	Moisture	
480-185607-5	828109-BS-911-13-14-060221	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 585325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185607-4 MS	828109-BS-11-13-14-060221	Total/NA	Solid	Moisture	
480-185607-4 MSD	828109-BS-11-13-14-060221	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Client Sample ID: 828109-BS-13-10-12-060121 — Lab Sample ID: 480-185607-1

Date Collected: 06/01/21 12:15 — **Matrix: Solid**
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585325	06/14/21 15:34	DSC	TAL BUF

Client Sample ID: 828109-BS-13-10-12-060121 — Lab Sample ID: 480-185607-1

Date Collected: 06/01/21 12:15 — **Matrix: Solid**
Date Received: 06/04/21 08:00 — **Percent Solids: 81.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			585183	06/14/21 00:48	WJD	TAL BUF
Total/NA	Analysis	8260C		10	585329	06/14/21 23:39	WJD	TAL BUF
Total/NA	Prep	3550C			584900	06/10/21 15:14	ATG	TAL BUF
Total/NA	Analysis	8270D		1	585163	06/14/21 02:00	PJQ	TAL BUF

Client Sample ID: 828109-BS-14-10-11-060121 — Lab Sample ID: 480-185607-2

Date Collected: 06/01/21 15:40 — **Matrix: Solid**
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585325	06/14/21 15:34	DSC	TAL BUF

Client Sample ID: 828109-BS-14-10-11-060121 — Lab Sample ID: 480-185607-2

Date Collected: 06/01/21 15:40 — **Matrix: Solid**
Date Received: 06/04/21 08:00 — **Percent Solids: 85.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			585183	06/14/21 00:48	WJD	TAL BUF
Total/NA	Analysis	8260C		4	585329	06/15/21 00:02	WJD	TAL BUF
Total/NA	Prep	3550C			584900	06/10/21 15:14	ATG	TAL BUF
Total/NA	Analysis	8270D		1	585163	06/14/21 02:24	PJQ	TAL BUF

Client Sample ID: 828109-BS-12-14-15-060221 — Lab Sample ID: 480-185607-3

Date Collected: 06/02/21 08:30 — **Matrix: Solid**
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585325	06/14/21 15:34	DSC	TAL BUF

Client Sample ID: 828109-BS-12-14-15-060221 — Lab Sample ID: 480-185607-3

Date Collected: 06/02/21 08:30 — **Matrix: Solid**
Date Received: 06/04/21 08:00 — **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			585183	06/14/21 00:48	WJD	TAL BUF
Total/NA	Analysis	8260C		4	585329	06/15/21 00:25	WJD	TAL BUF
Total/NA	Prep	3550C			584900	06/10/21 15:14	ATG	TAL BUF
Total/NA	Analysis	8270D		1	585163	06/14/21 02:47	PJQ	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Client Sample ID: 828109-BS-11-13-14-060221
Lab Sample ID: 480-185607-4
Date Collected: 06/02/21 14:15
Matrix: Solid
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585325	06/14/21 15:34	DSC	TAL BUF

Client Sample ID: 828109-BS-11-13-14-060221
Lab Sample ID: 480-185607-4
Date Collected: 06/02/21 14:15
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			585183	06/14/21 00:48	WJD	TAL BUF
Total/NA	Analysis	8260C		10	585329	06/15/21 00:48	WJD	TAL BUF
Total/NA	Prep	3550C			584900	06/10/21 15:14	ATG	TAL BUF
Total/NA	Analysis	8270D		5	585163	06/14/21 01:12	PJQ	TAL BUF
Total/NA	Prep	3550C			584987	06/11/21 09:04	VXF	TAL BUF
Total/NA	Analysis	8081B		1	584953	06/11/21 16:40	MAN	TAL BUF
Total/NA	Prep	3550C			585080	06/11/21 14:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	585155	06/13/21 23:20	NC	TAL BUF
Total/NA	Prep	SHAKE			167997	06/16/21 09:09	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168061	06/17/21 16:03	ND	TAL BUR
Total/NA	Prep	3050B			584913	06/11/21 10:17	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585401	06/14/21 16:44	LMH	TAL BUF

Client Sample ID: 828109-BS-911-13-14-060221
Lab Sample ID: 480-185607-5
Date Collected: 06/02/21 14:30
Matrix: Solid
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585325	06/14/21 15:34	DSC	TAL BUF

Client Sample ID: 828109-BS-911-13-14-060221
Lab Sample ID: 480-185607-5
Date Collected: 06/02/21 14:30
Matrix: Solid
Date Received: 06/04/21 08:00
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585031	06/11/21 10:30	WJD	TAL BUF
Total/NA	Analysis	8260C		1	584982	06/11/21 17:34	WJD	TAL BUF
Total/NA	Prep	3550C			584900	06/10/21 15:14	ATG	TAL BUF
Total/NA	Analysis	8270D		5	585163	06/14/21 03:11	PJQ	TAL BUF
Total/NA	Prep	3550C			584987	06/11/21 09:04	VXF	TAL BUF
Total/NA	Analysis	8081B		1	585200	06/14/21 12:59	JLS	TAL BUF
Total/NA	Prep	3550C			585080	06/11/21 14:40	ATG	TAL BUF
Total/NA	Analysis	8082A		1	585302	06/14/21 17:26	NC	TAL BUF
Total/NA	Prep	SHAKE			167997	06/16/21 09:09	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168061	06/17/21 16:28	ND	TAL BUR
Total/NA	Prep	3050B			584913	06/11/21 10:17	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585401	06/14/21 17:06	LMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185607-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: TB-01
Lab Sample ID: 480-185607-6
Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	584777	06/10/21 15:46	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-185607-1
Project/Site: Speedy's Cleaners #828109

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	08-02-21

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-16-21

Method Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-185607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-185607-1	828109-BS-13-10-12-060121	Solid	06/01/21 12:15	06/04/21 08:00
480-185607-2	828109-BS-14-10-11-060121	Solid	06/01/21 15:40	06/04/21 08:00
480-185607-3	828109-BS-12-14-15-060221	Solid	06/02/21 08:30	06/04/21 08:00
480-185607-4	828109-BS-11-13-14-060221	Solid	06/02/21 14:15	06/04/21 08:00
480-185607-5	828109-BS-911-13-14-060221	Solid	06/02/21 14:30	06/04/21 08:00
480-185607-6	TB-01	Water	06/02/21 00:00	06/04/21 08:00

Albany #224

Chain of Custody Record 422374

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: William Wert	Site Contact:	Date:	COC No:
Company Name: CDM Smith, INC	Tel/Email: WertWA@CDMSmith.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 11 British American Blvd Ste 200	Analysis Turnaround Time			Sampler:
City/State/Zip: Latham, NY 12110	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 610-263-2607	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Speedy's Cleaners #828109				
Site: Callout ID: 140047				
P O #				

480-185607 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOAs (8260D)	PFCs (537 Modified)	1,4-Dioxane (8270D)	TCL SVOAs (8270E)	TCL Pesticides (8081B)	TCL PCBs (8082A)	TAL Inorganics (6010D)	Notes:
828109-BS-13-10-12-060121	6/1/21	1215	G	S	2		N	X		X					
828109-BS-14-10-11-060121	6/1/21	1540	G	S	2		N	X		X					
828109-BS-12-14-15-060221	6/2/21	930	G	S	2		N	X		X					
828109-BS-11-13-14-060221	6/2/21	1415	G	S	7		N	X	X	X	X	X	X	X	
828109-BS-11-13-14-060221-MS	6/2/21	1420	G	S	7		Y	X	X	X	X	X	X	X	Parent sample:
828109-BS-11-13-14-060221-MSD	6/2/21	1425	G	S	7		Y	X	X	X	X	X	X	X	828109-BS-11-13-14-06
828109-BS-911-13-14-060221	6/2/21	1430	G	S	7		N	X	X	X	X	X	X	X	
TB-01	—	—	—	W	2			X							Trip Blank

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.9 #1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: CDM Smith	Date/Time: 6/3/21 1440	Received by: Karl Zoda	Company: Eurofins	Date/Time: 6/3/21 1500
Relinquished by: Karl Zoda	Company: Eurofins 6/3/21	Date/Time: 6/3/21 1700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 6/4/21 0800

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-185607 Chain of Custody

Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S	
Client Contact: Shipping/Receiving	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	New York
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Page: Page 1 of 1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 6/17/2021		Job #: 480-185607-1
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: Speedy's Cleaners #828109	Project #: 48023897		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/Shake_Bath_14D (MOD) PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
828109-BS-11-13-14-060221 (480-185607-4)	6/2/21	14:15 Eastern		Solid			X	1	
828109-BS-11-13-14-060221 (480-185607-4MS)	6/2/21	14:20 Eastern	MS	Solid			X	1	
828109-BS-11-13-14-060221 (480-185607-4MSD)	6/2/21	14:25 Eastern	MSD	Solid			X	1	
828109-BS-911-13-14-060221 (480-185607-5)	6/2/21	14:30 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Christine Nicolls	Date/Time: 6/9/21 1700	Company TA	Received by:	Date/Time: 6/11/21 10:30	Company TA BUFF	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Do Not Lift Using This Tag

eurofins | Environment Testing TestAmerica

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 09JUN21
ACTWGT: 21.20 LB
CAD: 8466547CAFE3409
DIMS: 19x15x10 IN

BILL SENDER

TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON

FedEx Express

THU - 10 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 1888 3864 2205

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-185607-1

Login Number: 185607 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-185607-1

Login Number: 185607
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington
List Creation: 06/11/21 04:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1513132
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	4.1ºC
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	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-186340-1
Client Project/Site: Speedy's Cleaners #828109
Revision: 1

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Authorized for release by:
9/21/2021 1:35:41 PM
Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Ryan VanDette
Project Manager II
9/21/2021 1:35:41 PM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 10
Surrogate Summary 22
Isotope Dilution Summary 24
QC Sample Results 26
QC Association Summary 56
Lab Chronicle 61
Certification Summary 63
Method Summary 64
Sample Summary 65
Chain of Custody 66
Receipt Checklists 69

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Glossary (Continued)

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

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Job ID: 480-186340-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-186340-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 7/7/2021. The report (revision 1) is being revised to add an ICV for method 8270D.

Receipt
The samples were received on 6/22/2021 10:55 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 3.3º C and 3.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-587795 recovered above the upper control limit for Carbazole. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 828109-MW-2-062121 (480-186340-1).

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-587140 and analytical batch 480-587795 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The Method Blank for preparation batch 480-587140 and analytical batch 480-587795 contained Di-n-butyl phthalate above the reporting limit. The Laboratory Control Sample for preparation batch 480-587140 and analytical batch 480-587795 recovered above the upper control limit for Di-n-butyl phthalate. The laboratory suspects the cause to be systemic contamination present in all extracts. The following samples are impacted: 828109-MW-2-062121 (480-186340-1). The results have been qualified and reported.

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

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010C: The low level continuing calibration verification (CCVL 480-586756/19) recovered above the upper control limit for (analyte). The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-586557/2-A) and (MB 480-586557/1-A) was not performed.

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

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

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 828109-MW-2-062121 (480-186340-1), 828109-MW-2-062121 (480-186340-1[MS]), 828109-MW-2-062121 (480-186340-1[MSD]), 828109-MW-3B-062121 (480-186340-2), 828109-MW-7-062121 (480-186340-3) and 828109-MW-8-062121 (480-186340-4).

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

Job ID: 480-186340-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Client Sample ID: 828109-MW-2-062121 — Lab Sample ID: 480-186340-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	16	B *+	5.0	0.31	ug/L	1		8270D	Total/NA
Endrin aldehyde	0.021	J B	0.050	0.016	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.015	J B	0.050	0.0080	ug/L	1		8081B	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.7		2.0	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.6		2.0	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8	J	2.0	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9	J	2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.1		2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.8		2.0	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	4.1	J	5.0	0.90	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		2.0	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		2.0	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.1	J	2.0	0.31	ng/L	1		537 (modified)	Total/NA
Barium	0.18		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	85.9		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00068	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.031	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	23.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.51		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.9	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	265		1.0	0.32	mg/L	1		6010C	Total/NA
Total Organic Carbon	3.0		1.0	0.43	mg/L	1		9060A	Total/NA
Sulfate	32.2	F1	10.0	3.0	mg/L	2		D516-90, 02	Total/NA
Alkalinity, Total	317	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	394	F1	10.0	4.6	mg/L	10		SM 4500 Cl- E	Total/NA

Client Sample ID: 828109-MW-3B-062121 — Lab Sample ID: 480-186340-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	0.028	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	4.9		1.0	0.43	mg/L	1		9060A	Total/NA
Nitrate as N	0.028	J	0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	471		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	31.4		1.0	0.46	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: 828109-MW-7-062121 — Lab Sample ID: 480-186340-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.96	J	1.0	0.36	ug/L	1		8260C	Total/NA
Nitrate Nitrite as N	0.025	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.5		1.0	0.43	mg/L	1		9060A	Total/NA
Sulfate	193		25.0	7.5	mg/L	5		D516-90, 02	Total/NA
Nitrate as N	0.025	J	0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	407		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Chloride	2070		60.0	27.6	mg/L	60		SM 4500 Cl- E	Total/NA

Client Sample ID: 828109-MW-8-062121 — Lab Sample ID: 480-186340-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2.5		1.0	0.43	mg/L	1		9060A	Total/NA
Sulfate	188		50.0	15.0	mg/L	10		D516-90, 02	Total/NA
Alkalinity, Total	406		5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: 828109-MW-8-062121 (Continued) — Lab Sample ID: 480-186340-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1950		60.0	27.6	mg/L	60		SM 4500 Cl- E	Total/NA

Client Sample ID: TB-01 — Lab Sample ID: 480-186340-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Client Sample ID: 828109-MW-2-062121

Lab Sample ID: 480-186340-1

Date Collected: 06/21/21 14:30

Matrix: Water

Date Received: 06/22/21 10:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 11:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 11:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 11:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 11:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 11:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 11:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 11:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 11:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 11:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 11:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 11:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 11:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 11:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 11:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 11:20	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 11:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 11:20	1
Acetone	ND		10	3.0	ug/L			06/26/21 11:20	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 11:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 11:20	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 11:20	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 11:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 11:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 11:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 11:20	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 11:20	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 11:20	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 11:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 11:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 11:20	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 11:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 11:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 11:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 11:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 11:20	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 11:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 11:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 11:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 11:20	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 11:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 11:20	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 11:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 11:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 11:20	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 11:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 11:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 11:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 11:20	1

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-MW-2-062121
Lab Sample ID: 480-186340-1
Date Collected: 06/21/21 14:30
Matrix: Water
Date Received: 06/22/21 10:55

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/26/21 11:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*06/26/21 11:20*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/26/21 11:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/26/21 11:20*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.096	ug/L		06/24/21 08:56	07/02/21 17:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*06/24/21 08:56*	*07/02/21 17:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 06:13	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 06:13	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 06:13	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 06:13	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 06:13	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 06:13	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 06:13	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 06:13	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 06:13	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 06:13	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 06:13	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 06:13	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 06:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 06:13	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 06:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 06:13	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 06:13	1
Acenaphthene	ND		5.0	0.41	ug/L		06/27/21 09:30	07/02/21 06:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 06:13	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 06:13	1
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 06:13	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 06:13	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 06:13	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 06:13	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 06:13	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 06:13	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 06:13	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 06:13	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 06:13	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 06:13	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 06:13	1

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-MW-2-062121
Lab Sample ID: 480-186340-1
Date Collected: 06/21/21 14:30
Matrix: Water
Date Received: 06/22/21 10:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 06:13	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 06:13	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 06:13	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 06:13	1
Carbazole	ND	*+	5.0	0.30	ug/L		06/27/21 09:30	07/02/21 06:13	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 06:13	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 06:13	1
Dibenzofuran	ND		10	0.51	ug/L		06/27/21 09:30	07/02/21 06:13	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 06:13	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 06:13	1
Di-n-butyl phthalate	**16**	**B *+**	5.0	0.31	ug/L		06/27/21 09:30	07/02/21 06:13	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 06:13	1
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 06:13	1
Fluorene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 06:13	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 06:13	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 06:13	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 06:13	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 06:13	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 06:13	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 06:13	1
Naphthalene	ND		5.0	0.76	ug/L		06/27/21 09:30	07/02/21 06:13	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 06:13	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 06:13	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 06:13	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 06:13	1
Phenanthrene	ND		5.0	0.44	ug/L		06/27/21 09:30	07/02/21 06:13	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 06:13	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*106*		*41 - 120*	*06/27/21 09:30*	*07/02/21 06:13*	*1*
2-Fluorobiphenyl	*101*		*48 - 120*	*06/27/21 09:30*	*07/02/21 06:13*	*1*
2-Fluorophenol (Surr)	*78*		*35 - 120*	*06/27/21 09:30*	*07/02/21 06:13*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*06/27/21 09:30*	*07/02/21 06:13*	*1*
Phenol-d5 (Surr)	*54*		*22 - 120*	*06/27/21 09:30*	*07/02/21 06:13*	*1*
p-Terphenyl-d14 (Surr)	*93*		*60 - 148*	*06/27/21 09:30*	*07/02/21 06:13*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/24/21 06:56	06/24/21 14:21	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 14:21	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 14:21	1
Aldrin	ND		0.050	0.0081	ug/L		06/24/21 06:56	06/24/21 14:21	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/24/21 06:56	06/24/21 14:21	1
beta-BHC	ND		0.050	0.025	ug/L		06/24/21 06:56	06/24/21 14:21	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/24/21 06:56	06/24/21 14:21	1
delta-BHC	ND		0.050	0.010	ug/L		06/24/21 06:56	06/24/21 14:21	1
Dieldrin	ND		0.050	0.0098	ug/L		06/24/21 06:56	06/24/21 14:21	1
Endosulfan I	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 14:21	1
Endosulfan II	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 14:21	1

Client Sample ID: 828109-MW-2-062121

Date Collected: 06/21/21 14:30
Date Received: 06/22/21 10:55

Lab Sample ID: 480-186340-1

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/24/21 06:56	06/24/21 14:21	1
Endrin	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 14:21	1
Endrin aldehyde	**0.021**	**J B**	0.050	0.016	ug/L		06/24/21 06:56	06/24/21 14:21	1
Endrin ketone	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 14:21	1
gamma-BHC (Lindane)	**0.015**	**J B**	0.050	0.0080	ug/L		06/24/21 06:56	06/24/21 14:21	1
Heptachlor	ND		0.050	0.0085	ug/L		06/24/21 06:56	06/24/21 14:21	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/24/21 06:56	06/24/21 14:21	1
Methoxychlor	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 14:21	1
Toxaphene	ND		0.50	0.12	ug/L		06/24/21 06:56	06/24/21 14:21	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*20 - 120*	*06/24/21 06:56*	*06/24/21 14:21*	*1*
DCB Decachlorobiphenyl	*57*		*20 - 120*	*06/24/21 06:56*	*06/24/21 14:21*	*1*
Tetrachloro-m-xylene	*86*		*44 - 120*	*06/24/21 06:56*	*06/24/21 14:21*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*06/24/21 06:56*	*06/24/21 14:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 15:15	1
PCB-1221	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 15:15	1
PCB-1232	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 15:15	1
PCB-1242	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 15:15	1
PCB-1248	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 15:15	1
PCB-1254	ND		0.52	0.26	ug/L		07/03/21 08:50	07/06/21 15:15	1
PCB-1260	ND		0.52	0.26	ug/L		07/03/21 08:50	07/06/21 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*19 - 120*	*07/03/21 08:50*	*07/06/21 15:15*	*1*
DCB Decachlorobiphenyl	*102*		*19 - 120*	*07/03/21 08:50*	*07/06/21 15:15*	*1*
Tetrachloro-m-xylene	*110*		*39 - 121*	*07/03/21 08:50*	*07/06/21 15:15*	*1*
Tetrachloro-m-xylene	*112*		*39 - 121*	*07/03/21 08:50*	*07/06/21 15:15*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**2.7**		2.0	0.24	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorooctanoic acid (PFOA)	**5.6**		2.0	0.43	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorononanoic acid (PFNA)	**1.8**	**J**	2.0	0.28	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorobutanesulfonic acid (PFBS)	**1.9**	**J**	2.0	0.25	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorohexanesulfonic acid (PFHxS)	**2.1**		2.0	0.30	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorooctanesulfonic acid (PFOS)	**7.8**		2.0	0.29	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorobutanoic acid (PFBA)	**4.1**	**J**	5.0	0.90	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluoropentanoic acid (PFPeA)	**3.4**		2.0	0.48	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorohexanoic acid (PFHxA)	**2.6**		2.0	0.46	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.35	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorodecanoic acid (PFDA)	**1.1**	**J**	2.0	0.31	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.44	ng/L		06/25/21 12:40	06/28/21 19:55	1

Client Sample ID: 828109-MW-2-062121

Lab Sample ID: 480-186340-1

Date Collected: 06/21/21 14:30

Matrix: Water

Date Received: 06/22/21 10:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.64	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		06/25/21 12:40	06/28/21 19:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.24	ng/L		06/25/21 12:40	06/28/21 19:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.91	ng/L		06/25/21 12:40	06/28/21 19:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.75	ng/L		06/25/21 12:40	06/28/21 19:55	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		06/25/21 12:40	06/28/21 19:55	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		06/25/21 12:40	06/28/21 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*85*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C4 PFHpA	*93*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C4 PFOA	*98*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C4 PFOS	*88*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C5 PFNA	*94*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C4 PFBA	*85*		*25 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C2 PFHxA	*96*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C2 PFDA	*95*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C2 PFUnA	*92*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C2 PFDoA	*87*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C8 FOSA	*83*		*25 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C5 PFPeA	*95*		*25 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C2 PFTeDA	*85*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
d3-NMeFOSAA	*89*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
d5-NEtFOSAA	*84*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
M2-6:2 FTS	*96*		*25 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
M2-8:2 FTS	*106*		*25 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*
13C3 PFBS	*87*		*50 - 150*	*06/25/21 12:40*	*06/28/21 19:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/23/21 08:35	06/23/21 21:11	1
Antimony	ND		0.020	0.0068	mg/L		06/23/21 08:35	06/23/21 21:11	1
Arsenic	ND		0.015	0.0056	mg/L		06/23/21 08:35	06/23/21 21:11	1
Barium	**0.18**		0.0020	0.00070	mg/L		06/23/21 08:35	06/23/21 21:11	1
Beryllium	ND		0.0020	0.00030	mg/L		06/23/21 08:35	06/23/21 21:11	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/21 08:35	06/23/21 21:11	1
Calcium	**85.9**		0.50	0.10	mg/L		06/23/21 08:35	06/23/21 21:11	1
Chromium	ND		0.0040	0.0010	mg/L		06/23/21 08:35	06/23/21 21:11	1
Cobalt	**0.00068**	**J**	0.0040	0.00063	mg/L		06/23/21 08:35	06/23/21 21:11	1
Copper	ND		0.010	0.0016	mg/L		06/23/21 08:35	06/23/21 21:11	1
Iron	**0.031**	**J**	0.050	0.019	mg/L		06/23/21 08:35	06/23/21 21:11	1
Lead	ND		0.010	0.0030	mg/L		06/23/21 08:35	06/23/21 21:11	1
Magnesium	**23.4**		0.20	0.043	mg/L		06/23/21 08:35	06/23/21 21:11	1
Manganese	**0.51**		0.0030	0.00040	mg/L		06/23/21 08:35	06/23/21 21:11	1
Nickel	ND		0.010	0.0013	mg/L		06/23/21 08:35	06/23/21 21:11	1
Potassium	**3.9**	**B**	0.50	0.10	mg/L		06/23/21 08:35	06/23/21 21:11	1

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-MW-2-062121
Lab Sample ID: 480-186340-1
Date Collected: 06/21/21 14:30
Matrix: Water
Date Received: 06/22/21 10:55

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		06/23/21 08:35	06/23/21 21:11	1
Silver	ND		0.0060	0.0017	mg/L		06/23/21 08:35	06/23/21 21:11	1
Sodium	**265**		1.0	0.32	mg/L		06/23/21 08:35	06/23/21 21:11	1
Thallium	ND		0.020	0.010	mg/L		06/23/21 08:35	06/23/21 21:11	1
Vanadium	ND		0.0050	0.0015	mg/L		06/23/21 08:35	06/23/21 21:11	1
Zinc	ND		0.010	0.0015	mg/L		06/23/21 08:35	06/23/21 21:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:39	1
Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 17:42	1
Total Organic Carbon	**3.0**		1.0	0.43	mg/L			06/23/21 07:52	1
Sulfate	**32.2**	**F1**	10.0	3.0	mg/L			06/24/21 04:35	2
Nitrate as N	ND		0.050	0.020	mg/L			06/22/21 17:42	1
Alkalinity, Total	**317**	**F1**	5.0	0.79	mg/L			06/23/21 15:42	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/22/21 16:40	1
Chloride	**394**	**F1**	10.0	4.6	mg/L			06/24/21 03:14	10
Sulfide	ND		1.0	0.67	mg/L			06/28/21 16:11	1

Client Sample ID: 828109-MW-3B-062121
Lab Sample ID: 480-186340-2
Date Collected: 06/21/21 13:00
Matrix: Water
Date Received: 06/22/21 10:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 11:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 11:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 11:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 11:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 11:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 11:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 11:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 11:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 11:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 11:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 11:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 11:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 11:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 11:42	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 11:42	1
Acetone	ND		10	3.0	ug/L			06/26/21 11:42	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 11:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 11:42	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 11:42	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 11:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 11:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 11:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 11:42	1

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Client Sample ID: 828109-MW-3B-062121
Date Collected: 06/21/21 13:00
Date Received: 06/22/21 10:55

Lab Sample ID: 480-186340-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 11:42	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 11:42	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 11:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 11:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 11:42	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 11:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 11:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 11:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 11:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 11:42	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 11:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 11:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 11:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 11:42	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 11:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 11:42	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 11:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 11:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 11:42	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 11:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 11:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 11:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/26/21 11:42*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*06/26/21 11:42*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/26/21 11:42*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/26/21 11:42*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		06/24/21 08:56	07/02/21 17:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*06/24/21 08:56*	*07/02/21 17:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.028**	**J**	0.050	0.020	mg/L			06/22/21 16:57	1
Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:57	1
Total Organic Carbon	**4.9**		1.0	0.43	mg/L			06/23/21 05:27	1
Sulfate	ND		5.0	1.5	mg/L			06/24/21 04:30	1
Nitrate as N	**0.028**	**J**	0.050	0.020	mg/L			06/22/21 16:57	1
Alkalinity, Total	**471**		5.0	0.79	mg/L			06/23/21 16:04	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/22/21 16:40	1
Chloride	**31.4**		1.0	0.46	mg/L			06/24/21 02:45	1
Sulfide	ND		1.0	0.67	mg/L			06/28/21 16:11	1

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Client Sample ID: 828109-MW-7-062121
Date Collected: 06/21/21 14:50
Date Received: 06/22/21 10:55

Lab Sample ID: 480-186340-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 12:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 12:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 12:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 12:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 12:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 12:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 12:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 12:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 12:04	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 12:04	1
Acetone	ND		10	3.0	ug/L			06/26/21 12:04	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 12:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 12:04	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 12:04	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 12:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 12:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 12:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 12:04	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 12:04	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 12:04	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 12:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 12:04	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 12:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 12:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 12:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 12:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 12:04	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 12:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 12:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 12:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 12:04	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 12:04	1
Tetrachloroethene	**0.96**	**J**	1.0	0.36	ug/L			06/26/21 12:04	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 12:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 12:04	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 12:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 12:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 12:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 12:04	1

Client Sample ID: 828109-MW-7-062121

Lab Sample ID: 480-186340-3

Date Collected: 06/21/21 14:50

Matrix: Water

Date Received: 06/22/21 10:55

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/26/21 12:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/26/21 12:04*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/26/21 12:04*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/26/21 12:04*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.098	ug/L		06/24/21 08:56	07/02/21 18:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*06/24/21 08:56*	*07/02/21 18:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.025**	**J**	0.050	0.020	mg/L			06/22/21 16:58	1
Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:58	1
Total Organic Carbon	**3.5**		1.0	0.43	mg/L			06/23/21 09:17	1
Sulfate	**193**		25.0	7.5	mg/L			06/24/21 04:44	5
Nitrate as N	**0.025**	**J**	0.050	0.020	mg/L			06/22/21 16:58	1
Alkalinity, Total	**407**		5.0	0.79	mg/L			06/23/21 16:12	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/22/21 16:40	1
Chloride	**2070**		60.0	27.6	mg/L			06/24/21 03:36	60
Sulfide	ND		1.0	0.67	mg/L			06/28/21 16:11	1

Client Sample ID: 828109-MW-8-062121

Lab Sample ID: 480-186340-4

Date Collected: 06/21/21 17:15

Matrix: Water

Date Received: 06/22/21 10:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 12:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 12:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 12:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 12:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 12:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 12:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 12:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 12:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 12:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 12:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 12:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 12:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 12:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 12:26	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 12:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 12:26	1
Acetone	ND		10	3.0	ug/L			06/26/21 12:26	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 12:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 12:26	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 12:26	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 12:26	1

Client Sample ID: 828109-MW-8-062121
Date Collected: 06/21/21 17:15
Date Received: 06/22/21 10:55

Lab Sample ID: 480-186340-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 12:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 12:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 12:26	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 12:26	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 12:26	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 12:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 12:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 12:26	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 12:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 12:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 12:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 12:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 12:26	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 12:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 12:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 12:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 12:26	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 12:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 12:26	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 12:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 12:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 12:26	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 12:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 12:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 12:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*06/26/21 12:26*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*06/26/21 12:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/26/21 12:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/26/21 12:26*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		06/24/21 08:56	07/02/21 18:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*06/24/21 08:56*	*07/02/21 18:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:59	1
Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:59	1
Total Organic Carbon	**2.5**		1.0	0.43	mg/L			06/23/21 09:46	1
Sulfate	**188**		50.0	15.0	mg/L			06/24/21 04:53	10
Nitrate as N	ND		0.050	0.020	mg/L			06/22/21 16:59	1
Alkalinity, Total	**406**		5.0	0.79	mg/L			06/23/21 16:21	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/22/21 16:40	1
Chloride	**1950**		60.0	27.6	mg/L			06/24/21 03:36	60
Sulfide	ND		1.0	0.67	mg/L			06/28/21 16:11	1

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: TB-01
Lab Sample ID: 480-186340-5
Date Collected: 06/21/21 00:00
Matrix: Water
Date Received: 06/22/21 10:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 12:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 12:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 12:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 12:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 12:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 12:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 12:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 12:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 12:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 12:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 12:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 12:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 12:49	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 12:49	1
Acetone	ND		10	3.0	ug/L			06/26/21 12:49	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 12:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 12:49	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 12:49	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 12:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 12:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 12:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 12:49	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 12:49	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 12:49	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 12:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 12:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 12:49	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 12:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 12:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 12:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 12:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 12:49	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 12:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 12:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 12:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 12:49	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 12:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 12:49	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 12:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 12:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 12:49	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 12:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 12:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 12:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 12:49	1

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: TB-01
Lab Sample ID: 480-186340-5
Date Collected: 06/21/21 00:00
Matrix: Water
Date Received: 06/22/21 10:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/26/21 12:49	1
4-Bromofluorobenzene (Surr)	96		73 - 120		06/26/21 12:49	1
Dibromofluoromethane (Surr)	105		75 - 123		06/26/21 12:49	1
Toluene-d8 (Surr)	94		80 - 120		06/26/21 12:49	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-186340-1	828109-MW-2-062121	103	95	103	95
480-186340-1 MS	828109-MW-2-062121	97	95	99	95
480-186340-1 MSD	828109-MW-2-062121	92	95	95	96
480-186340-2	828109-MW-3B-062121	104	91	105	94
480-186340-3	828109-MW-7-062121	100	97	102	97
480-186340-4	828109-MW-8-062121	97	84	100	91
480-186340-5	TB-01	102	96	105	94
LCS 480-587096/5	Lab Control Sample	94	90	97	94
MB 480-587096/7	Method Blank	102	96	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-186340-1	828109-MW-2-062121	106	101	78	89	54	93
480-186340-1 MS	828109-MW-2-062121	98	102	80	100	61	86
480-186340-1 MSD	828109-MW-2-062121	100	102	83	100	63	83
LCS 480-587140/2-A	Lab Control Sample	116	101	81	101	63	110
MB 480-587140/1-A	Method Blank	103	110	81	100	56	120

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-186340-1	828109-MW-2-062121	48	57	86	69
480-186340-1 MS	828109-MW-2-062121	46	50	97	75
480-186340-1 MSD	828109-MW-2-062121	50	57	84	81
LCS 480-586730/2-A	Lab Control Sample	42	49	79	67
MB 480-586730/1-A	Method Blank	50	58	87	70

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(19-120)	(19-120)	(39-121)	(39-121)
480-186340-1	828109-MW-2-062121	97	102	110	112
480-186340-1 MS	828109-MW-2-062121	65	73	94	93
480-186340-1 MSD	828109-MW-2-062121	65	69	99	99
LCS 480-588013/2-A	Lab Control Sample	47	49	89	87
MB 480-588013/1-A	Method Blank	65	64	94	95

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DXE (15-110)
480-186340-1	828109-MW-2-062121	30
480-186340-1 MS	828109-MW-2-062121	31
480-186340-1 MSD	828109-MW-2-062121	31
480-186340-2	828109-MW-3B-062121	29
480-186340-3	828109-MW-7-062121	30
480-186340-4	828109-MW-8-062121	32
LCS 480-586752/2-A	Lab Control Sample	31
MB 480-586752/1-A	Method Blank	31

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-186340-1	828109-MW-2-062121	85	93	98	88	94	85	96	95
480-186340-1 MS	828109-MW-2-062121	93	100	99	96	96	89	101	106
480-186340-1 MSD	828109-MW-2-062121	87	97	98	92	103	88	100	101
LCS 200-168431/2-A	Lab Control Sample	90	99	95	91	98	102	106	102
MB 200-168431/1-A	Method Blank	89	93	95	94	99	105	101	101

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-186340-1	828109-MW-2-062121	92	87	83	95	85	89	84	96
480-186340-1 MS	828109-MW-2-062121	91	89	86	98	86	95	83	99
480-186340-1 MSD	828109-MW-2-062121	93	89	83	98	85	84	82	93
LCS 200-168431/2-A	Lab Control Sample	91	79	74	104	76	83	85	92
MB 200-168431/1-A	Method Blank	93	86	82	104	79	85	91	90

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)
480-186340-1	828109-MW-2-062121	106	87
480-186340-1 MS	828109-MW-2-062121	109	94
480-186340-1 MSD	828109-MW-2-062121	101	90
LCS 200-168431/2-A	Lab Control Sample	105	93
MB 200-168431/1-A	Method Blank	104	95

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

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

Lab Sample ID: MB 480-587096/7
Matrix: Water
Analysis Batch: 587096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 10:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 10:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 10:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 10:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 10:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 10:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 10:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 10:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 10:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 10:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 10:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 10:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 10:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 10:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 10:46	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 10:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 10:46	1
Acetone	ND		10	3.0	ug/L			06/26/21 10:46	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 10:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 10:46	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 10:46	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 10:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 10:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 10:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 10:46	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 10:46	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 10:46	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 10:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 10:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 10:46	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 10:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 10:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 10:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 10:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 10:46	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 10:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 10:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 10:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 10:46	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 10:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 10:46	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 10:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 10:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 10:46	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 10:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 10:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 10:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 10:46	1

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

Lab Sample ID: MB 480-587096/7
Matrix: Water
Analysis Batch: 587096

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/26/21 10:46	1
4-Bromofluorobenzene (Surr)	96		73 - 120		06/26/21 10:46	1
Dibromofluoromethane (Surr)	102		75 - 123		06/26/21 10:46	1
Toluene-d8 (Surr)	95		80 - 120		06/26/21 10:46	1

Lab Sample ID: LCS 480-587096/5
Matrix: Water
Analysis Batch: 587096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3		ug/L		105	61 - 148
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	24.9		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.4		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	25.0	21.3		ug/L		85	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.6		ug/L		78	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	24.6		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 120
2-Butanone (MEK)	125	119		ug/L		95	57 - 140
2-Hexanone	125	121		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	24.6		ug/L		99	71 - 124
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Bromoform	25.0	23.9		ug/L		95	61 - 132
Bromomethane	25.0	25.2		ug/L		101	55 - 144
Carbon disulfide	25.0	24.5		ug/L		98	59 - 134
Carbon tetrachloride	25.0	25.3		ug/L		101	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Chloroethane	25.0	27.0		ug/L		108	69 - 136
Chloroform	25.0	23.6		ug/L		94	73 - 127
Chloromethane	25.0	22.2		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
Cyclohexane	25.0	22.9		ug/L		92	59 - 135
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
Isopropylbenzene	25.0	23.5		ug/L		94	77 - 122
Methyl acetate	50.0	44.2		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	22.6		ug/L		91	77 - 120
Methylcyclohexane	25.0	22.6		ug/L		90	68 - 134

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

Lab Sample ID: LCS 480-587096/5
Matrix: Water
Analysis Batch: 587096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	25.5		ug/L		102	62 - 150
Vinyl chloride	25.0	25.3		ug/L		101	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 587096

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	29.9		ug/L		120	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	23.4		ug/L		94	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.8		ug/L		119	61 - 148
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		101	76 - 122
1,1-Dichloroethane	ND		25.0	28.3		ug/L		113	77 - 120
1,1-Dichloroethene	ND		25.0	29.3		ug/L		117	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	23.2		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	19.7		ug/L		79	56 - 134
1,2-Dibromoethane	ND		25.0	24.9		ug/L		100	77 - 120
1,2-Dichlorobenzene	ND		25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	ND		25.0	25.9		ug/L		104	75 - 120
1,2-Dichloropropane	ND		25.0	27.5		ug/L		110	76 - 120
1,3-Dichlorobenzene	ND		25.0	26.2		ug/L		105	77 - 120
1,4-Dichlorobenzene	ND		25.0	25.5		ug/L		102	78 - 124
2-Butanone (MEK)	ND		125	118		ug/L		95	57 - 140
2-Hexanone	ND		125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	112		ug/L		90	71 - 125
Acetone	ND		125	111		ug/L		89	56 - 142
Benzene	ND		25.0	28.2		ug/L		113	71 - 124
Bromodichloromethane	ND		25.0	27.2		ug/L		109	80 - 122
Bromoform	ND		25.0	25.3		ug/L		101	61 - 132
Bromomethane	ND		25.0	30.7		ug/L		123	55 - 144
Carbon disulfide	ND		25.0	27.0		ug/L		108	59 - 134
Carbon tetrachloride	ND		25.0	30.1		ug/L		120	72 - 134
Chlorobenzene	ND		25.0	26.7		ug/L		107	80 - 120
Chloroethane	ND		25.0	31.2		ug/L		125	69 - 136
Chloroform	ND		25.0	26.8		ug/L		107	73 - 127

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

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 587096

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		25.0	25.6		ug/L		102	68 - 124
cis-1,2-Dichloroethene	ND		25.0	27.5		ug/L		110	74 - 124
cis-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	74 - 124
Cyclohexane	ND		25.0	26.8		ug/L		107	59 - 135
Dibromochloromethane	ND		25.0	25.9		ug/L		104	75 - 125
Dichlorodifluoromethane	ND		25.0	25.3		ug/L		101	59 - 135
Ethylbenzene	ND		25.0	27.3		ug/L		109	77 - 123
Isopropylbenzene	ND		25.0	26.5		ug/L		106	77 - 122
Methyl acetate	ND		50.0	43.3		ug/L		87	74 - 133
Methyl tert-butyl ether	ND		25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	ND		25.0	26.9		ug/L		107	68 - 134
Methylene Chloride	ND		25.0	26.9		ug/L		108	75 - 124
Styrene	ND		25.0	26.8		ug/L		107	80 - 120
Tetrachloroethene	ND		25.0	29.2		ug/L		117	74 - 122
Toluene	ND		25.0	26.9		ug/L		108	80 - 122
trans-1,2-Dichloroethene	ND		25.0	28.8		ug/L		115	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	80 - 120
Trichloroethene	ND		25.0	28.4		ug/L		114	74 - 123
Trichlorofluoromethane	ND		25.0	29.7		ug/L		119	62 - 150
Vinyl chloride	ND		25.0	30.8		ug/L		123	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	97		*77 - 120*
4-Bromofluorobenzene (Surr)	95		*73 - 120*
Dibromofluoromethane (Surr)	99		*75 - 123*
Toluene-d8 (Surr)	95		*80 - 120*

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587096

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	27.4		ug/L		110	73 - 126	9	15
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.8		ug/L		107	61 - 148	11	20
1,1,2-Trichloroethane	ND		25.0	24.0		ug/L		96	76 - 122	5	15
1,1-Dichloroethane	ND		25.0	25.9		ug/L		104	77 - 120	9	20
1,1-Dichloroethene	ND		25.0	27.0		ug/L		108	66 - 127	8	16
1,2,4-Trichlorobenzene	ND		25.0	23.2		ug/L		93	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	19.8		ug/L		79	56 - 134	0	15
1,2-Dibromoethane	ND		25.0	23.8		ug/L		95	77 - 120	5	15
1,2-Dichlorobenzene	ND		25.0	24.7		ug/L		99	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	75 - 120	9	20
1,2-Dichloropropane	ND		25.0	25.1		ug/L		100	76 - 120	9	20
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	77 - 120	3	20
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	78 - 124	3	20
2-Butanone (MEK)	ND		125	109		ug/L		87	57 - 140	8	20
2-Hexanone	ND		125	116		ug/L		92	65 - 127	5	15

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

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587096

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		125	108		ug/L		86	71 - 125	4	35
Acetone	ND		125	104		ug/L		83	56 - 142	7	15
Benzene	ND		25.0	25.7		ug/L		103	71 - 124	9	13
Bromodichloromethane	ND		25.0	24.9		ug/L		99	80 - 122	9	15
Bromoform	ND		25.0	24.1		ug/L		96	61 - 132	5	15
Bromomethane	ND		25.0	27.3		ug/L		109	55 - 144	12	15
Carbon disulfide	ND		25.0	24.7		ug/L		99	59 - 134	9	15
Carbon tetrachloride	ND		25.0	27.3		ug/L		109	72 - 134	10	15
Chlorobenzene	ND		25.0	25.3		ug/L		101	80 - 120	5	25
Chloroethane	ND		25.0	29.4		ug/L		118	69 - 136	6	15
Chloroform	ND		25.0	24.7		ug/L		99	73 - 127	8	20
Chloromethane	ND		25.0	24.8		ug/L		99	68 - 124	3	15
cis-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	74 - 124	9	15
cis-1,3-Dichloropropene	ND		25.0	23.7		ug/L		95	74 - 124	9	15
Cyclohexane	ND		25.0	24.2		ug/L		97	59 - 135	10	20
Dibromochloromethane	ND		25.0	24.7		ug/L		99	75 - 125	5	15
Dichlorodifluoromethane	ND		25.0	24.1		ug/L		97	59 - 135	5	20
Ethylbenzene	ND		25.0	25.9		ug/L		104	77 - 123	5	15
Isopropylbenzene	ND		25.0	26.1		ug/L		104	77 - 122	2	20
Methyl acetate	ND		50.0	39.6		ug/L		79	74 - 133	9	20
Methyl tert-butyl ether	ND		25.0	22.9		ug/L		92	77 - 120	7	37
Methylcyclohexane	ND		25.0	24.0		ug/L		96	68 - 134	11	20
Methylene Chloride	ND		25.0	25.1		ug/L		100	75 - 124	7	15
Styrene	ND		25.0	25.2		ug/L		101	80 - 120	6	20
Tetrachloroethene	ND		25.0	27.5		ug/L		110	74 - 122	6	20
Toluene	ND		25.0	25.6		ug/L		102	80 - 122	5	15
trans-1,2-Dichloroethene	ND		25.0	26.4		ug/L		105	73 - 127	9	20
trans-1,3-Dichloropropene	ND		25.0	24.3		ug/L		97	80 - 120	5	15
Trichloroethene	ND		25.0	25.9		ug/L		104	74 - 123	9	16
Trichlorofluoromethane	ND		25.0	28.3		ug/L		113	62 - 150	5	20
Vinyl chloride	ND		25.0	29.4		ug/L		117	65 - 133	5	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 04:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acenaphthene	ND		5.0	0.41	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 04:29	1
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 04:29	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 04:29	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 04:29	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 04:29	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Carbazole	ND		5.0	0.30	ug/L		06/27/21 09:30	07/02/21 04:29	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dibenzofuran	ND		10	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Di-n-butyl phthalate	18.8		5.0	0.31	ug/L		06/27/21 09:30	07/02/21 04:29	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
Fluorene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 04:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 04:29	1
Naphthalene	ND		5.0	0.76	ug/L		06/27/21 09:30	07/02/21 04:29	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 04:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 04:29	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Phenanthrene	ND		5.0	0.44	ug/L		06/27/21 09:30	07/02/21 04:29	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 04:29	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 04:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*41 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
2-Fluorobiphenyl	*110*		*48 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
2-Fluorophenol (Surr)	*81*		*35 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
Phenol-d5 (Surr)	*56*		*22 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
p-Terphenyl-d14 (Surr)	*120*		*60 - 148*	*06/27/21 09:30*	*07/02/21 04:29*	*1*

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	32.4		ug/L		101	65 - 126
2,4,6-Trichlorophenol	32.0	32.2		ug/L		101	64 - 120
2,4-Dichlorophenol	32.0	32.4		ug/L		101	63 - 120
2,4-Dimethylphenol	32.0	31.2		ug/L		98	47 - 120
2,4-Dinitrophenol	64.0	70.9		ug/L		111	31 - 137
2,4-Dinitrotoluene	32.0	34.6		ug/L		108	69 - 120
2,6-Dinitrotoluene	32.0	33.9		ug/L		106	68 - 120
2-Chloronaphthalene	32.0	30.3		ug/L		95	58 - 120
2-Chlorophenol	32.0	32.3		ug/L		101	48 - 120
2-Methylnaphthalene	32.0	30.4		ug/L		95	59 - 120
2-Methylphenol	32.0	32.3		ug/L		101	39 - 120
2-Nitroaniline	32.0	32.2		ug/L		101	54 - 127
2-Nitrophenol	32.0	35.0		ug/L		109	52 - 125
3,3'-Dichlorobenzidine	64.0	54.9		ug/L		86	49 - 135
3-Nitroaniline	32.0	24.7		ug/L		77	51 - 120
4,6-Dinitro-2-methylphenol	64.0	76.0		ug/L		119	46 - 136
4-Bromophenyl phenyl ether	32.0	37.8		ug/L		118	65 - 120
4-Chloro-3-methylphenol	32.0	32.7		ug/L		102	61 - 123
4-Chloroaniline	32.0	19.2		ug/L		60	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.7		ug/L		102	62 - 120
4-Methylphenol	32.0	32.2		ug/L		101	29 - 131
4-Nitroaniline	32.0	29.2		ug/L		91	65 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	64.0	47.1		ug/L		74	45 - 120
Acenaphthene	32.0	32.3		ug/L		101	60 - 120
Acenaphthylene	32.0	34.2		ug/L		107	63 - 120
Acetophenone	32.0	33.4		ug/L		104	45 - 120
Anthracene	32.0	34.4		ug/L		108	67 - 120
Atrazine	64.0	73.1		ug/L		114	71 - 130
Benzaldehyde	64.0	64.5		ug/L		101	10 - 140
Benzo[a]anthracene	32.0	36.4		ug/L		114	70 - 121
Benzo[a]pyrene	32.0	32.7		ug/L		102	60 - 123
Benzo[b]fluoranthene	32.0	36.1		ug/L		113	66 - 126
Benzo[g,h,i]perylene	32.0	35.9		ug/L		112	66 - 150
Benzo[k]fluoranthene	32.0	34.6		ug/L		108	65 - 124
Biphenyl	32.0	31.3		ug/L		98	59 - 120
bis (2-chloroisopropyl) ether	32.0	31.0		ug/L		97	21 - 136
Bis(2-chloroethoxy)methane	32.0	33.5		ug/L		105	50 - 128
Bis(2-chloroethyl)ether	32.0	34.1		ug/L		107	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	36.9		ug/L		115	63 - 139
Butyl benzyl phthalate	32.0	36.4		ug/L		114	70 - 129
Caprolactam	64.0	25.8		ug/L		40	22 - 120
Carbazole	32.0	41.2	*+	ug/L		129	66 - 123
Chrysene	32.0	35.2		ug/L		110	69 - 120
Dibenz(a,h)anthracene	32.0	36.1		ug/L		113	65 - 135
Dibenzofuran	32.0	32.8		ug/L		102	66 - 120
Diethyl phthalate	32.0	34.7		ug/L		108	59 - 127
Dimethyl phthalate	32.0	33.9		ug/L		106	68 - 120
Di-n-butyl phthalate	32.0	45.5	*+	ug/L		142	69 - 131
Di-n-octyl phthalate	32.0	37.5		ug/L		117	63 - 140
Fluoranthene	32.0	35.3		ug/L		110	69 - 126
Fluorene	32.0	33.8		ug/L		106	66 - 120
Hexachlorobenzene	32.0	34.5		ug/L		108	61 - 120
Hexachlorobutadiene	32.0	27.3		ug/L		85	35 - 120
Hexachlorocyclopentadiene	32.0	20.6		ug/L		64	31 - 120
Hexachloroethane	32.0	27.7		ug/L		86	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.1		ug/L		110	69 - 146
Isophorone	32.0	34.3		ug/L		107	55 - 120
Naphthalene	32.0	30.7		ug/L		96	57 - 120
Nitrobenzene	32.0	33.8		ug/L		105	53 - 123
N-Nitrosodi-n-propylamine	32.0	34.4		ug/L		107	32 - 140
N-Nitrosodiphenylamine	32.0	33.5		ug/L		105	61 - 120
Pentachlorophenol	64.0	72.7		ug/L		114	29 - 136
Phenanthrene	32.0	35.6		ug/L		111	68 - 120
Phenol	32.0	21.4		ug/L		67	17 - 120
Pyrene	32.0	35.4		ug/L		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*116*		*41 - 120*
2-Fluorobiphenyl	*101*		*48 - 120*
2-Fluorophenol (Surr)	*81*		*35 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	101		46 - 120
Phenol-d5 (Surr)	63		22 - 120
p-Terphenyl-d14 (Surr)	110		60 - 148

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 587795

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	31.8		ug/L		99	65 - 126
2,4,6-Trichlorophenol	ND		32.0	34.0		ug/L		106	64 - 120
2,4-Dichlorophenol	ND		32.0	32.0		ug/L		100	48 - 132
2,4-Dimethylphenol	ND		32.0	29.7		ug/L		93	39 - 130
2,4-Dinitrophenol	ND		64.0	66.7		ug/L		104	21 - 150
2,4-Dinitrotoluene	ND		32.0	30.3		ug/L		95	54 - 138
2,6-Dinitrotoluene	ND		32.0	30.4		ug/L		95	17 - 150
2-Chloronaphthalene	ND		32.0	30.7		ug/L		96	52 - 124
2-Chlorophenol	ND		32.0	31.5		ug/L		98	48 - 120
2-Methylnaphthalene	ND		32.0	30.4		ug/L		95	34 - 140
2-Methylphenol	ND		32.0	31.0		ug/L		97	46 - 120
2-Nitroaniline	ND		32.0	31.8		ug/L		99	44 - 136
2-Nitrophenol	ND		32.0	34.9		ug/L		109	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	50.8		ug/L		79	10 - 150
3-Nitroaniline	ND		32.0	21.9		ug/L		68	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	66.1		ug/L		103	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	37.2		ug/L		116	63 - 126
4-Chloro-3-methylphenol	ND		32.0	32.3		ug/L		101	64 - 127
4-Chloroaniline	ND		32.0	17.1		ug/L		53	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	32.3		ug/L		101	61 - 120
4-Methylphenol	ND		32.0	30.7		ug/L		96	36 - 120
4-Nitroaniline	ND		32.0	23.2		ug/L		72	32 - 150
4-Nitrophenol	ND		64.0	41.1		ug/L		64	23 - 132
Acenaphthene	ND		32.0	32.5		ug/L		101	48 - 120
Acenaphthylene	ND		32.0	34.4		ug/L		108	63 - 120
Acetophenone	ND		32.0	33.0		ug/L		103	53 - 120
Anthracene	ND		32.0	32.4		ug/L		101	65 - 122
Atrazine	ND		64.0	61.0		ug/L		95	50 - 150
Benzaldehyde	ND		64.0	60.8		ug/L		95	10 - 150
Benzo[a]anthracene	ND		32.0	36.5		ug/L		114	43 - 124
Benzo[a]pyrene	ND		32.0	29.0		ug/L		91	23 - 125
Benzo[b]fluoranthene	ND		32.0	32.1		ug/L		100	27 - 127
Benzo[g,h,i]perylene	ND		32.0	32.0		ug/L		100	16 - 147
Benzo[k]fluoranthene	ND		32.0	30.5		ug/L		95	20 - 124
Biphenyl	ND		32.0	31.5		ug/L		98	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	30.5		ug/L		95	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	33.8		ug/L		106	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	34.2		ug/L		107	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	34.6		ug/L		108	16 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 587795

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	ND		32.0	36.0		ug/L		113	51 - 140
Caprolactam	ND		64.0	24.2		ug/L		38	10 - 120
Carbazole	ND	*+	32.0	39.5		ug/L		123	16 - 148
Chrysene	ND		32.0	34.3		ug/L		107	44 - 122
Dibenz(a,h)anthracene	ND		32.0	32.1		ug/L		100	16 - 139
Dibenzofuran	ND		32.0	33.0		ug/L		103	60 - 120
Diethyl phthalate	ND		32.0	29.5		ug/L		92	53 - 133
Dimethyl phthalate	ND		32.0	29.8		ug/L		93	59 - 123
Di-n-butyl phthalate	16	B *+	32.0	45.9		ug/L		94	65 - 129
Di-n-octyl phthalate	ND		32.0	36.5		ug/L		114	16 - 150
Fluoranthene	ND		32.0	30.9		ug/L		97	63 - 129
Fluorene	ND		32.0	33.8		ug/L		106	62 - 120
Hexachlorobenzene	ND		32.0	33.0		ug/L		103	57 - 121
Hexachlorobutadiene	ND		32.0	27.0		ug/L		84	37 - 120
Hexachlorocyclopentadiene	ND		32.0	22.2		ug/L		69	21 - 120
Hexachloroethane	ND		32.0	27.2		ug/L		85	16 - 130
Indeno[1,2,3-cd]pyrene	ND		32.0	30.8		ug/L		96	16 - 140
Isophorone	ND		32.0	34.0		ug/L		106	48 - 133
Naphthalene	ND		32.0	30.4		ug/L		95	45 - 120
Nitrobenzene	ND		32.0	33.4		ug/L		104	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	33.4		ug/L		104	49 - 120
N-Nitrosodiphenylamine	ND		32.0	25.1		ug/L		78	39 - 138
Pentachlorophenol	ND		64.0	73.8		ug/L		115	23 - 149
Phenanthrene	ND		32.0	32.0		ug/L		100	65 - 122
Phenol	ND		32.0	20.6		ug/L		64	16 - 120
Pyrene	ND		32.0	35.1		ug/L		110	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*41 - 120*
2-Fluorobiphenyl	*102*		*48 - 120*
2-Fluorophenol (Surr)	*80*		*35 - 120*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*
Phenol-d5 (Surr)	*61*		*22 - 120*
p-Terphenyl-d14 (Surr)	*86*		*60 - 148*

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587795

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	28.9		ug/L		90	65 - 126	10	18
2,4,6-Trichlorophenol	ND		32.0	34.4		ug/L		108	64 - 120	1	19
2,4-Dichlorophenol	ND		32.0	31.9		ug/L		100	48 - 132	0	19
2,4-Dimethylphenol	ND		32.0	30.5		ug/L		95	39 - 130	3	42
2,4-Dinitrophenol	ND		64.0	72.9		ug/L		114	21 - 150	9	22
2,4-Dinitrotoluene	ND		32.0	29.9		ug/L		93	54 - 138	2	20
2,6-Dinitrotoluene	ND		32.0	29.6		ug/L		92	17 - 150	3	15
2-Chloronaphthalene	ND		32.0	30.6		ug/L		96	52 - 124	0	21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587795

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol	ND		32.0	31.8		ug/L		99	48 - 120	1	25
2-Methylnaphthalene	ND		32.0	30.2		ug/L		94	34 - 140	1	21
2-Methylphenol	ND		32.0	31.7		ug/L		99	46 - 120	2	27
2-Nitroaniline	ND		32.0	31.9		ug/L		100	44 - 136	0	15
2-Nitrophenol	ND		32.0	35.3		ug/L		110	38 - 141	1	18
3,3'-Dichlorobenzidine	ND		64.0	47.5		ug/L		74	10 - 150	7	25
3-Nitroaniline	ND		32.0	22.0		ug/L		69	32 - 150	0	19
4,6-Dinitro-2-methylphenol	ND		64.0	75.8		ug/L		118	38 - 150	14	15
4-Bromophenyl phenyl ether	ND		32.0	36.7		ug/L		115	63 - 126	1	15
4-Chloro-3-methylphenol	ND		32.0	32.4		ug/L		101	64 - 127	1	27
4-Chloroaniline	ND		32.0	18.4		ug/L		58	16 - 124	8	22
4-Chlorophenyl phenyl ether	ND		32.0	32.3		ug/L		101	61 - 120	0	16
4-Methylphenol	ND		32.0	31.8		ug/L		99	36 - 120	3	24
4-Nitroaniline	ND		32.0	21.4		ug/L		67	32 - 150	8	24
4-Nitrophenol	ND		64.0	40.0		ug/L		63	23 - 132	3	48
Acenaphthene	ND		32.0	32.1		ug/L		100	48 - 120	1	24
Acenaphthylene	ND		32.0	34.4		ug/L		108	63 - 120	0	18
Acetophenone	ND		32.0	32.5		ug/L		102	53 - 120	1	20
Anthracene	ND		32.0	29.9		ug/L		93	65 - 122	8	15
Atrazine	ND		64.0	61.6		ug/L		96	50 - 150	1	20
Benzaldehyde	ND		64.0	61.1		ug/L		95	10 - 150	0	20
Benzo[a]anthracene	ND		32.0	34.1		ug/L		107	43 - 124	7	15
Benzo[a]pyrene	ND		32.0	28.2		ug/L		88	23 - 125	3	15
Benzo[b]fluoranthene	ND		32.0	31.5		ug/L		99	27 - 127	2	15
Benzo[g,h,i]perylene	ND		32.0	31.3		ug/L		98	16 - 147	2	15
Benzo[k]fluoranthene	ND		32.0	29.7		ug/L		93	20 - 124	3	22
Biphenyl	ND		32.0	31.6		ug/L		99	57 - 120	0	20
bis (2-chloroisopropyl) ether	ND		32.0	30.9		ug/L		97	28 - 121	1	24
Bis(2-chloroethoxy)methane	ND		32.0	33.4		ug/L		104	44 - 128	1	17
Bis(2-chloroethyl)ether	ND		32.0	33.1		ug/L		103	45 - 120	3	21
Bis(2-ethylhexyl) phthalate	ND		32.0	32.3		ug/L		101	16 - 150	7	15
Butyl benzyl phthalate	ND		32.0	33.4		ug/L		104	51 - 140	7	16
Caprolactam	ND		64.0	25.3		ug/L		40	10 - 120	5	20
Carbazole	ND	*+	32.0	40.0		ug/L		125	16 - 148	1	20
Chrysene	ND		32.0	31.7		ug/L		99	44 - 122	8	15
Dibenz(a,h)anthracene	ND		32.0	31.3		ug/L		98	16 - 139	2	15
Dibenzofuran	ND		32.0	32.7		ug/L		102	60 - 120	1	15
Diethyl phthalate	ND		32.0	29.3		ug/L		92	53 - 133	1	15
Dimethyl phthalate	ND		32.0	27.6		ug/L		86	59 - 123	8	15
Di-n-butyl phthalate	16	B *+	32.0	48.6		ug/L		102	65 - 129	6	15
Di-n-octyl phthalate	ND		32.0	33.8		ug/L		106	16 - 150	8	16
Fluoranthene	ND		32.0	31.3		ug/L		98	63 - 129	1	15
Fluorene	ND		32.0	33.4		ug/L		104	62 - 120	1	15
Hexachlorobenzene	ND		32.0	33.1		ug/L		104	57 - 121	0	15
Hexachlorobutadiene	ND		32.0	28.3		ug/L		88	37 - 120	5	44
Hexachlorocyclopentadiene	ND		32.0	21.4		ug/L		67	21 - 120	3	49
Hexachloroethane	ND		32.0	28.0		ug/L		87	16 - 130	3	46
Indeno[1,2,3-cd]pyrene	ND		32.0	30.0		ug/L		94	16 - 140	3	15
Isophorone	ND		32.0	34.0		ug/L		106	48 - 133	0	17

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587795

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		32.0	30.5		ug/L		95	45 - 120	0	29
Nitrobenzene	ND		32.0	33.3		ug/L		104	45 - 123	0	24
N-Nitrosodi-n-propylamine	ND		32.0	33.2		ug/L		104	49 - 120	1	31
N-Nitrosodiphenylamine	ND		32.0	27.4		ug/L		86	39 - 138	9	15
Pentachlorophenol	ND		64.0	73.3		ug/L		115	23 - 149	1	37
Phenanthrene	ND		32.0	31.8		ug/L		99	65 - 122	1	15
Phenol	ND		32.0	21.3		ug/L		67	16 - 120	3	34
Pyrene	ND		32.0	32.8		ug/L		103	58 - 128	7	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*100*		*41 - 120*
2-Fluorobiphenyl	*102*		*48 - 120*
2-Fluorophenol (Surr)	*83*		*35 - 120*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*
Phenol-d5 (Surr)	*63*		*22 - 120*
p-Terphenyl-d14 (Surr)	*83*		*60 - 148*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-586752/1-A
Matrix: Water
Analysis Batch: 587818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/24/21 08:56	07/02/21 15:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/24/21 08:56*	*07/02/21 15:40*	*1*

Lab Sample ID: LCS 480-586752/2-A
Matrix: Water
Analysis Batch: 587818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586752

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	1.05		ug/L		105	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*31*		*15 - 110*

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 587818

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	ND		0.962	0.970		ug/L		101	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*31*		*15 - 110*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587818

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		0.952	0.956		ug/L		100	40 - 140	1	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*31*		*15 - 110*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-586730/1-A
Matrix: Water
Analysis Batch: 586775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/24/21 06:56	06/24/21 12:43	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 12:43	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 12:43	1
Aldrin	ND		0.050	0.0081	ug/L		06/24/21 06:56	06/24/21 12:43	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/24/21 06:56	06/24/21 12:43	1
beta-BHC	ND		0.050	0.025	ug/L		06/24/21 06:56	06/24/21 12:43	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/24/21 06:56	06/24/21 12:43	1
delta-BHC	0.0138	J	0.050	0.010	ug/L		06/24/21 06:56	06/24/21 12:43	1
Dieldrin	ND		0.050	0.0098	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endosulfan I	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endosulfan II	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endrin	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endrin aldehyde	0.0305	J	0.050	0.016	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endrin ketone	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 12:43	1
gamma-BHC (Lindane)	0.0138	J	0.050	0.0080	ug/L		06/24/21 06:56	06/24/21 12:43	1
Heptachlor	ND		0.050	0.0085	ug/L		06/24/21 06:56	06/24/21 12:43	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/24/21 06:56	06/24/21 12:43	1
Methoxychlor	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 12:43	1
Toxaphene	ND		0.50	0.12	ug/L		06/24/21 06:56	06/24/21 12:43	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*20 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*
Tetrachloro-m-xylene	*87*		*44 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*

Lab Sample ID: LCS 480-586730/2-A
Matrix: Water
Analysis Batch: 586775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.385		ug/L		96	64 - 129
4,4'-DDE	0.400	0.300		ug/L		75	50 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-586730/2-A
Matrix: Water
Analysis Batch: 586775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	0.400	0.387		ug/L		97	59 - 120
Aldrin	0.400	0.238		ug/L		60	40 - 125
alpha-BHC	0.400	0.293		ug/L		73	52 - 125
beta-BHC	0.400	0.346		ug/L		86	51 - 120
cis-Chlordane	0.400	0.277		ug/L		69	52 - 120
delta-BHC	0.400	0.320		ug/L		80	51 - 120
Dieldrin	0.400	0.390		ug/L		97	66 - 128
Endosulfan I	0.400	0.293		ug/L		73	57 - 120
Endosulfan II	0.400	0.386		ug/L		97	66 - 131
Endosulfan sulfate	0.400	0.368		ug/L		92	66 - 136
Endrin	0.400	0.397		ug/L		99	65 - 135
Endrin aldehyde	0.400	0.388		ug/L		97	61 - 134
Endrin ketone	0.400	0.380		ug/L		95	71 - 133
gamma-BHC (Lindane)	0.400	0.327		ug/L		82	56 - 120
Heptachlor	0.400	0.321		ug/L		80	58 - 120
Heptachlor epoxide	0.400	0.352		ug/L		88	65 - 125
Methoxychlor	0.400	0.376		ug/L		94	50 - 150
trans-Chlordane	0.400	0.310		ug/L		77	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*42*		*20 - 120*
DCB Decachlorobiphenyl	*49*		*20 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*
Tetrachloro-m-xylene	*67*		*44 - 120*

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586775

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.400	0.383		ug/L		96	57 - 130
4,4'-DDE	ND		0.400	0.310		ug/L		78	39 - 120
4,4'-DDT	ND		0.400	0.334		ug/L		84	37 - 130
Aldrin	ND		0.400	0.255		ug/L		64	39 - 125
alpha-BHC	ND		0.400	0.299		ug/L		75	48 - 120
beta-BHC	ND		0.400	0.358		ug/L		90	49 - 120
cis-Chlordane	ND		0.400	0.281		ug/L		70	44 - 120
delta-BHC	ND		0.400	0.340		ug/L		85	50 - 120
Dieldrin	ND		0.400	0.407		ug/L		102	56 - 130
Endosulfan I	ND		0.400	0.330		ug/L		83	40 - 126
Endosulfan II	ND		0.400	0.388		ug/L		97	59 - 140
Endosulfan sulfate	ND		0.400	0.388		ug/L		97	60 - 134
Endrin	ND		0.400	0.396		ug/L		99	54 - 135
Endrin aldehyde	0.021	J B	0.400	0.408		ug/L		97	50 - 142
Endrin ketone	ND		0.400	0.430		ug/L		108	57 - 138
gamma-BHC (Lindane)	0.015	J B	0.400	0.331		ug/L		79	50 - 120
Heptachlor	ND		0.400	0.357		ug/L		89	56 - 120
Heptachlor epoxide	ND		0.400	0.371		ug/L		93	58 - 125

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586775

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methoxychlor	ND		0.400	0.363		ug/L		91	40 - 150
trans-Chlordane	ND		0.400	0.329		ug/L		82	42 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*20 - 120*
DCB Decachlorobiphenyl	*50*		*20 - 120*
Tetrachloro-m-xylene	*97*		*44 - 120*
Tetrachloro-m-xylene	*75*		*44 - 120*

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586775

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.400	0.403		ug/L		101	57 - 130	5	23
4,4'-DDE	ND		0.400	0.317		ug/L		79	39 - 120	2	22
4,4'-DDT	ND		0.400	0.346		ug/L		87	37 - 130	4	24
Aldrin	ND		0.400	0.301		ug/L		75	39 - 125	17	25
alpha-BHC	ND		0.400	0.327		ug/L		82	48 - 120	9	24
beta-BHC	ND		0.400	0.361		ug/L		90	49 - 120	1	24
cis-Chlordane	ND		0.400	0.307		ug/L		77	44 - 120	9	23
delta-BHC	ND		0.400	0.356		ug/L		89	50 - 120	5	24
Dieldrin	ND		0.400	0.433		ug/L		108	56 - 130	6	24
Endosulfan I	ND		0.400	0.347		ug/L		87	40 - 126	5	30
Endosulfan II	ND		0.400	0.398		ug/L		100	59 - 140	3	40
Endosulfan sulfate	ND		0.400	0.408		ug/L		102	60 - 134	5	24
Endrin	ND		0.400	0.413		ug/L		103	54 - 135	4	24
Endrin aldehyde	0.021	J B	0.400	0.424		ug/L		101	50 - 142	4	28
Endrin ketone	ND		0.400	0.434		ug/L		108	57 - 138	1	26
gamma-BHC (Lindane)	0.015	J B	0.400	0.344		ug/L		82	50 - 120	4	24
Heptachlor	ND		0.400	0.378		ug/L		95	56 - 120	6	25
Heptachlor epoxide	ND		0.400	0.383		ug/L		96	58 - 125	3	23
Methoxychlor	ND		0.400	0.389		ug/L		97	40 - 150	7	26
trans-Chlordane	ND		0.400	0.347		ug/L		87	42 - 120	5	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*20 - 120*
DCB Decachlorobiphenyl	*57*		*20 - 120*
Tetrachloro-m-xylene	*84*		*44 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-588013/1-A
Matrix: Water
Analysis Batch: 588119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1221	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1232	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1242	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1248	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1254	ND		0.50	0.25	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1260	ND		0.50	0.25	ug/L		07/03/21 08:50	07/06/21 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*19 - 120*	*07/03/21 08:50*	*07/06/21 13:58*	*1*
DCB Decachlorobiphenyl	*64*		*19 - 120*	*07/03/21 08:50*	*07/06/21 13:58*	*1*
Tetrachloro-m-xylene	*94*		*39 - 121*	*07/03/21 08:50*	*07/06/21 13:58*	*1*
Tetrachloro-m-xylene	*95*		*39 - 121*	*07/03/21 08:50*	*07/06/21 13:58*	*1*

Lab Sample ID: LCS 480-588013/2-A
Matrix: Water
Analysis Batch: 588119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588013

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.91		ug/L		98	62 - 130		
PCB-1260			4.00	3.53		ug/L		88	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*19 - 120*
DCB Decachlorobiphenyl	*49*		*19 - 120*
Tetrachloro-m-xylene	*89*		*39 - 121*
Tetrachloro-m-xylene	*87*		*39 - 121*

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 588119

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 588013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		4.00	3.83		ug/L		96	28 - 150		
PCB-1260	ND		4.00	3.62		ug/L		91	25 - 131		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*19 - 120*
DCB Decachlorobiphenyl	*73*		*19 - 120*
Tetrachloro-m-xylene	*94*		*39 - 121*
Tetrachloro-m-xylene	*93*		*39 - 121*

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 588119

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 588013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	4.61		ug/L		115	28 - 150	18	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 588119

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 588013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1260	ND		4.00	3.84		ug/L		96	25 - 131	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*19 - 120*
DCB Decachlorobiphenyl	*69*		*19 - 120*
Tetrachloro-m-xylene	*99*		*39 - 121*
Tetrachloro-m-xylene	*99*		*39 - 121*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-168431/1-A
Matrix: Water
Analysis Batch: 168505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		06/25/21 12:40	06/28/21 17:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		06/25/21 12:40	06/28/21 17:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		06/25/21 12:40	06/28/21 17:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		06/25/21 12:40	06/28/21 17:02	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		06/25/21 12:40	06/28/21 17:02	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		06/25/21 12:40	06/28/21 17:02	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*89*		*50 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*
13C4 PFHpA	*93*		*50 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*
13C4 PFOA	*95*		*50 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*
13C4 PFOS	*94*		*50 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*
13C5 PFNA	*99*		*50 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*
13C4 PFBA	*105*		*25 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*
13C2 PFHxA	*101*		*50 - 150*	*06/25/21 12:40*	*06/28/21 17:02*	*1*

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

Lab Sample ID: MB 200-168431/1-A
Matrix: Water
Analysis Batch: 168505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168431

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		50 - 150	06/25/21 12:40	06/28/21 17:02	1
13C2 PFUnA	93		50 - 150	06/25/21 12:40	06/28/21 17:02	1
13C2 PFDoA	86		50 - 150	06/25/21 12:40	06/28/21 17:02	1
13C8 FOSA	82		25 - 150	06/25/21 12:40	06/28/21 17:02	1
13C5 PFPeA	104		25 - 150	06/25/21 12:40	06/28/21 17:02	1
13C2 PFTeDA	79		50 - 150	06/25/21 12:40	06/28/21 17:02	1
d3-NMeFOSAA	85		50 - 150	06/25/21 12:40	06/28/21 17:02	1
d5-NEtFOSAA	91		50 - 150	06/25/21 12:40	06/28/21 17:02	1
M2-6:2 FTS	90		25 - 150	06/25/21 12:40	06/28/21 17:02	1
M2-8:2 FTS	104		25 - 150	06/25/21 12:40	06/28/21 17:02	1
13C3 PFBS	95		50 - 150	06/25/21 12:40	06/28/21 17:02	1

Lab Sample ID: LCS 200-168431/2-A
Matrix: Water
Analysis Batch: 168505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanoic acid (PFHpA)	40.0	44.4		ng/L		111	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	43.7		ng/L		109	70 - 130
Perfluorononanoic acid (PFNA)	40.0	44.9		ng/L		112	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	39.7		ng/L		112	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	41.4		ng/L		114	70 - 130
Perfluorooctanesulfonic acid (PFOS)	37.1	40.8		ng/L		110	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	44.5		ng/L		111	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	44.1		ng/L		110	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	42.6		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	43.0		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	42.3		ng/L		106	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	43.4		ng/L		109	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	42.6		ng/L		107	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	42.4		ng/L		106	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	39.9		ng/L		100	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	36.9		ng/L		96	50 - 150
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.3		ng/L		108	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.8		ng/L		99	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.8		ng/L		95	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	44.1		ng/L		116	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	37.2		ng/L		97	50 - 150

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

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	90		50 - 150
13C4 PFHpA	99		50 - 150
13C4 PFOA	95		50 - 150
13C4 PFOS	91		50 - 150
13C5 PFNA	98		50 - 150
13C4 PFBA	102		25 - 150
13C2 PFHxA	106		50 - 150
13C2 PFDA	102		50 - 150
13C2 PFUnA	91		50 - 150
13C2 PFDoA	79		50 - 150
13C8 FOSA	74		25 - 150
13C5 PFPeA	104		25 - 150
13C2 PFTeDA	76		50 - 150
d3-NMeFOSAA	83		50 - 150
d5-NEtFOSAA	85		50 - 150
M2-6:2 FTS	92		25 - 150
M2-8:2 FTS	105		25 - 150
13C3 PFBS	93		50 - 150

Lab Sample ID: 480-186340-1 MS — **Client Sample ID: 828109-MW-2-062121**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168505 — **Prep Batch: 168431**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanoic acid (PFHpA)	2.7		41.4	48.9		ng/L		111	40 - 160
Perfluorooctanoic acid (PFOA)	5.6		41.4	51.4		ng/L		111	40 - 160
Perfluorononanoic acid (PFNA)	1.8	J	41.4	50.8		ng/L		118	40 - 160
Perfluorobutanesulfonic acid (PFBS)	1.9	J	36.6	45.4		ng/L		119	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.1		37.7	44.7		ng/L		113	40 - 160
Perfluorooctanesulfonic acid (PFOS)	7.8		38.4	49.3		ng/L		108	40 - 160
Perfluorobutanoic acid (PFBA)	4.1	J	41.4	49.0		ng/L		109	40 - 160
Perfluoropentanoic acid (PFPeA)	3.4		41.4	49.6		ng/L		112	40 - 160
Perfluorohexanoic acid (PFHxA)	2.6		41.4	47.4		ng/L		108	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND		41.4	45.9		ng/L		111	40 - 160
Perfluorodecanoic acid (PFDA)	1.1	J	41.4	45.6		ng/L		107	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		41.4	48.1		ng/L		116	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		41.4	48.7		ng/L		118	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		41.4	45.1		ng/L		109	40 - 160
Perfluorooctanesulfonamide (PFOSA)	ND		41.4	46.2		ng/L		112	40 - 160
Perfluorodecanesulfonic acid (PFDS)	ND		39.9	39.9		ng/L		100	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	ND		39.4	43.7		ng/L		111	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		41.4	40.9		ng/L		99	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		41.4	47.8		ng/L		115	40 - 160

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

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 168505

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		39.3	43.9		ng/L		112	40 - 160
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		39.7	45.2		ng/L		114	40 - 160

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*93*		*50 - 150*
13C4 PFHpA	*100*		*50 - 150*
13C4 PFOA	*99*		*50 - 150*
13C4 PFOS	*96*		*50 - 150*
13C5 PFNA	*96*		*50 - 150*
13C4 PFBA	*89*		*25 - 150*
13C2 PFHxA	*101*		*50 - 150*
13C2 PFDA	*106*		*50 - 150*
13C2 PFUnA	*91*		*50 - 150*
13C2 PFDoA	*89*		*50 - 150*
13C8 FOSA	*86*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFTeDA	*86*		*50 - 150*
d3-NMeFOSAA	*95*		*50 - 150*
d5-NEtFOSAA	*83*		*50 - 150*
M2-6:2 FTS	*99*		*25 - 150*
M2-8:2 FTS	*109*		*25 - 150*
13C3 PFBS	*94*		*50 - 150*

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 168505

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroheptanoic acid (PFHpA)	2.7		40.0	48.5		ng/L		114	40 - 160	1	20
Perfluorooctanoic acid (PFOA)	5.6		40.0	49.6		ng/L		110	40 - 160	4	20
Perfluorononanoic acid (PFNA)	1.8	J	40.0	45.6		ng/L		109	40 - 160	11	20
Perfluorobutanesulfonic acid (PFBS)	1.9	J	35.4	42.3		ng/L		114	40 - 160	7	20
Perfluorohexanesulfonic acid (PFHxS)	2.1		36.4	43.8		ng/L		115	40 - 160	2	20
Perfluorooctanesulfonic acid (PFOS)	7.8		37.1	48.6		ng/L		110	40 - 160	2	20
Perfluorobutanoic acid (PFBA)	4.1	J	40.0	46.0		ng/L		105	40 - 160	6	30
Perfluoropentanoic acid (PFPeA)	3.4		40.0	48.6		ng/L		113	40 - 160	2	30
Perfluorohexanoic acid (PFHxA)	2.6		40.0	47.5		ng/L		112	40 - 160	0	20
Perfluoroundecanoic acid (PFUnA)	ND		40.0	42.9		ng/L		107	40 - 160	7	20
Perfluorodecanoic acid (PFDA)	1.1	J	40.0	43.7		ng/L		107	40 - 160	4	20
Perfluorododecanoic acid (PFDoA)	ND		40.0	42.8		ng/L		107	40 - 160	12	20
Perfluorotridecanoic acid (PFTriA)	ND		40.0	42.2		ng/L		106	40 - 160	14	20
Perfluorotetradecanoic acid (PFTeA)	ND		40.0	42.9		ng/L		107	40 - 160	5	20

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

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 168505

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonamide (PFOSA)	ND		40.0	46.5		ng/L		116	40 - 160	1	30
Perfluorodecanesulfonic acid (PFDS)	ND		38.6	40.3		ng/L		104	40 - 160	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		38.1	41.1		ng/L		108	40 - 160	6	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		40.0	44.9		ng/L		112	40 - 160	9	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		40.0	45.5		ng/L		114	40 - 160	5	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		37.9	44.6		ng/L		118	40 - 160	1	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		38.3	41.2		ng/L		108	40 - 160	9	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*87*		*50 - 150*
13C4 PFHpA	*97*		*50 - 150*
13C4 PFOA	*98*		*50 - 150*
13C4 PFOS	*92*		*50 - 150*
13C5 PFNA	*103*		*50 - 150*
13C4 PFBA	*88*		*25 - 150*
13C2 PFHxA	*100*		*50 - 150*
13C2 PFDA	*101*		*50 - 150*
13C2 PFUnA	*93*		*50 - 150*
13C2 PFDoA	*89*		*50 - 150*
13C8 FOSA	*83*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFTeDA	*85*		*50 - 150*
d3-NMeFOSAA	*84*		*50 - 150*
d5-NEtFOSAA	*82*		*50 - 150*
M2-6:2 FTS	*93*		*25 - 150*
M2-8:2 FTS	*101*		*25 - 150*
13C3 PFBS	*90*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-586557/1-A
Matrix: Water
Analysis Batch: 586756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/23/21 08:35	06/23/21 20:05	1
Antimony	ND		0.020	0.0068	mg/L		06/23/21 08:35	06/23/21 20:05	1
Arsenic	ND		0.015	0.0056	mg/L		06/23/21 08:35	06/23/21 20:05	1
Barium	ND		0.0020	0.00070	mg/L		06/23/21 08:35	06/23/21 20:05	1
Beryllium	ND		0.0020	0.00030	mg/L		06/23/21 08:35	06/23/21 20:05	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/21 08:35	06/23/21 20:05	1
Calcium	ND		0.50	0.10	mg/L		06/23/21 08:35	06/23/21 20:05	1
Chromium	ND		0.0040	0.0010	mg/L		06/23/21 08:35	06/23/21 20:05	1
Cobalt	ND		0.0040	0.00063	mg/L		06/23/21 08:35	06/23/21 20:05	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-586557/1-A
Matrix: Water
Analysis Batch: 586756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010	0.0016	mg/L		06/23/21 08:35	06/23/21 20:05	1
Iron	ND		0.050	0.019	mg/L		06/23/21 08:35	06/23/21 20:05	1
Lead	ND		0.010	0.0030	mg/L		06/23/21 08:35	06/23/21 20:05	1
Magnesium	ND		0.20	0.043	mg/L		06/23/21 08:35	06/23/21 20:05	1
Manganese	ND		0.0030	0.00040	mg/L		06/23/21 08:35	06/23/21 20:05	1
Nickel	ND		0.010	0.0013	mg/L		06/23/21 08:35	06/23/21 20:05	1
Potassium	0.189	J ^+	0.50	0.10	mg/L		06/23/21 08:35	06/23/21 20:05	1
Selenium	ND		0.025	0.0087	mg/L		06/23/21 08:35	06/23/21 20:05	1
Silver	ND		0.0060	0.0017	mg/L		06/23/21 08:35	06/23/21 20:05	1
Sodium	ND		1.0	0.32	mg/L		06/23/21 08:35	06/23/21 20:05	1
Thallium	ND		0.020	0.010	mg/L		06/23/21 08:35	06/23/21 20:05	1
Vanadium	ND		0.0050	0.0015	mg/L		06/23/21 08:35	06/23/21 20:05	1
Zinc	ND		0.010	0.0015	mg/L		06/23/21 08:35	06/23/21 20:05	1

Lab Sample ID: LCS 480-586557/2-A
Matrix: Water
Analysis Batch: 586756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.94		mg/L		99	80 - 120
Antimony	0.200	0.209		mg/L		105	80 - 120
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.220		mg/L		110	80 - 120
Beryllium	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.198		mg/L		99	80 - 120
Calcium	10.0	9.83		mg/L		98	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.200	0.191		mg/L		96	80 - 120
Copper	0.200	0.196		mg/L		98	80 - 120
Iron	10.0	9.49		mg/L		95	80 - 120
Lead	0.200	0.195		mg/L		97	80 - 120
Magnesium	10.0	9.63		mg/L		96	80 - 120
Manganese	0.200	0.201		mg/L		101	80 - 120
Nickel	0.200	0.193		mg/L		97	80 - 120
Potassium	10.0	10.32	^+	mg/L		103	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0484		mg/L		97	80 - 120
Sodium	10.0	10.19		mg/L		102	80 - 120
Thallium	0.200	0.200		mg/L		100	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.201		mg/L		100	80 - 120

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586756

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	10.21		mg/L		102	75 - 125
Antimony	ND		0.200	0.221		mg/L		111	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586756

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.200	0.215		mg/L		108	75 - 125
Barium	0.18		0.200	0.395		mg/L		109	75 - 125
Beryllium	ND		0.200	0.213		mg/L		107	75 - 125
Cadmium	ND		0.200	0.210		mg/L		105	75 - 125
Calcium	85.9		10.0	99.38	4	mg/L		135	75 - 125
Chromium	ND		0.200	0.205		mg/L		103	75 - 125
Cobalt	0.00068	J	0.200	0.205		mg/L		102	75 - 125
Copper	ND		0.200	0.205		mg/L		103	75 - 125
Iron	0.031	J	10.0	9.68		mg/L		97	75 - 125
Lead	ND		0.200	0.208		mg/L		104	75 - 125
Magnesium	23.4		10.0	33.69		mg/L		103	75 - 125
Manganese	0.51		0.200	0.717		mg/L		106	75 - 125
Nickel	ND		0.200	0.208		mg/L		104	75 - 125
Potassium	3.9	B	10.0	14.68		mg/L		108	75 - 125
Selenium	ND		0.200	0.208		mg/L		104	75 - 125
Silver	ND		0.0500	0.0517		mg/L		103	75 - 125
Sodium	265		10.0	282.5	4	mg/L		171	75 - 125
Thallium	ND		0.200	0.203		mg/L		101	75 - 125
Vanadium	ND		0.200	0.212		mg/L		106	75 - 125
Zinc	ND		0.200	0.211		mg/L		105	75 - 125

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586756

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 586557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.17		mg/L		102	75 - 125	0	20
Antimony	ND		0.200	0.219		mg/L		109	75 - 125	1	20
Arsenic	ND		0.200	0.216		mg/L		108	75 - 125	0	20
Barium	0.18		0.200	0.389		mg/L		106	75 - 125	2	20
Beryllium	ND		0.200	0.212		mg/L		106	75 - 125	1	20
Cadmium	ND		0.200	0.207		mg/L		104	75 - 125	1	20
Calcium	85.9		10.0	98.94	4	mg/L		130	75 - 125	0	20
Chromium	ND		0.200	0.204		mg/L		102	75 - 125	1	20
Cobalt	0.00068	J	0.200	0.203		mg/L		101	75 - 125	1	20
Copper	ND		0.200	0.203		mg/L		102	75 - 125	1	20
Iron	0.031	J	10.0	9.52		mg/L		95	75 - 125	2	20
Lead	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Magnesium	23.4		10.0	33.51		mg/L		101	75 - 125	1	20
Manganese	0.51		0.200	0.712		mg/L		103	75 - 125	1	20
Nickel	ND		0.200	0.205		mg/L		103	75 - 125	1	20
Potassium	3.9	B	10.0	14.65		mg/L		108	75 - 125	0	20
Selenium	ND		0.200	0.202		mg/L		101	75 - 125	3	20
Silver	ND		0.0500	0.0515		mg/L		103	75 - 125	0	20
Sodium	265		10.0	281.9	4	mg/L		164	75 - 125	0	20
Thallium	ND		0.200	0.203		mg/L		101	75 - 125	0	20
Vanadium	ND		0.200	0.209		mg/L		104	75 - 125	1	20
Zinc	ND		0.200	0.208		mg/L		104	75 - 125	1	20

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-586493/3
Matrix: Water
Analysis Batch: 586493

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 17:28	1

Lab Sample ID: LCS 480-586493/4
Matrix: Water
Analysis Batch: 586493

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586493

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND		1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586493

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND		1.00	1.04		mg/L		104	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-586489/28
Matrix: Water
Analysis Batch: 586489

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:52	1

Lab Sample ID: MB 480-586489/4
Matrix: Water
Analysis Batch: 586489

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/22/21 16:25	1

Lab Sample ID: LCS 480-586489/29
Matrix: Water
Analysis Batch: 586489

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.53		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 480-586489/5
Matrix: Water
Analysis Batch: 586489

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.52		mg/L		101	90 - 110

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586489

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586489

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		1.00	1.03		mg/L		103	90 - 110	2	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-586629/28
Matrix: Water
Analysis Batch: 586629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/23/21 06:55	1

Lab Sample ID: MB 480-586629/4
Matrix: Water
Analysis Batch: 586629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/22/21 19:28	1

Lab Sample ID: LCS 480-586629/29
Matrix: Water
Analysis Batch: 586629

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.73		mg/L		101	90 - 110

Lab Sample ID: LCS 480-586629/5
Matrix: Water
Analysis Batch: 586629

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.56		mg/L		101	90 - 110

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586629

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.0		23.3	28.07		mg/L		108	54 - 131

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586629

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	3.0		23.3	28.17		mg/L		108	54 - 131	0	20

Method: D516-90, 02 - Sulfate

Lab Sample ID: MB 480-586726/219
Matrix: Water
Analysis Batch: 586726

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			06/24/21 03:58	1

Lab Sample ID: LCS 480-586726/220
Matrix: Water
Analysis Batch: 586726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	30.33		mg/L		101	90 - 110

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586726

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	32.2	F1	20.0	70.71	F1	mg/L		193	60 - 128

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586726

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	32.2	F1	20.0	70.91	F1	mg/L		194	60 - 128	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-586738/4
Matrix: Water
Analysis Batch: 586738

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			06/23/21 15:28	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-586738/5
Matrix: Water
Analysis Batch: 586738

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			100	99.68		mg/L		100	90 - 110		

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586738

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total	317	F1	100	379.0		mg/L		62	60 - 140		

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586738

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	317	F1	100	372.6	F1	mg/L		56	60 - 140	2	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-586508/27
Matrix: Water
Analysis Batch: 586508

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/22/21 16:40	1

Lab Sample ID: MB 480-586508/3
Matrix: Water
Analysis Batch: 586508

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/22/21 16:40	1

Lab Sample ID: LCS 480-586508/28
Matrix: Water
Analysis Batch: 586508

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	2.02		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-586508/4
Matrix: Water
Analysis Batch: 586508

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	1.98		mg/L		99	90 - 110		

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.14	HF	mg/L		114	70 - 130

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	ND	HF	1.00	1.13	HF	mg/L		113	70 - 130	1	20

Lab Sample ID: 480-186340-4 MS
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-8-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.01		mg/L		101	70 - 130

Lab Sample ID: 480-186340-1 DU
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-186340-2 DU
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-3B-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-186340-3 DU
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-7-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Lab Sample ID: 480-186340-4 DU
Matrix: Water
Analysis Batch: 586508

Client Sample ID: 828109-MW-8-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-586725/178
Matrix: Water
Analysis Batch: 586725

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/24/21 02:34	1

Lab Sample ID: MB 480-586725/190
Matrix: Water
Analysis Batch: 586725

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/24/21 02:44	1

Lab Sample ID: MB 480-586725/221
Matrix: Water
Analysis Batch: 586725

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/24/21 03:02	1

Lab Sample ID: MB 480-586725/227
Matrix: Water
Analysis Batch: 586725

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/24/21 03:09	1

Lab Sample ID: MB 480-586725/239
Matrix: Water
Analysis Batch: 586725

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/24/21 03:24	1

Lab Sample ID: LCS 480-586725/189
Matrix: Water
Analysis Batch: 586725

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.83		mg/L		103	90 - 110

Lab Sample ID: LCS 480-586725/226
Matrix: Water
Analysis Batch: 586725

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.58		mg/L		102	90 - 110

Lab Sample ID: LCS 480-586725/238
Matrix: Water
Analysis Batch: 586725

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.50		mg/L		102	90 - 110

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 586725

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	394	F1	20.0	396.7	4	mg/L		13	74 - 131		

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 586725

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	394	F1	20.0	364.3	4	mg/L		-149	74 - 131	9	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-587300/3
Matrix: Water
Analysis Batch: 587300

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/28/21 16:11	1

Lab Sample ID: LCS 480-587300/4
Matrix: Water
Analysis Batch: 587300

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			7.80	7.60		mg/L		97	90 - 110		

Lab Sample ID: 480-186340-1 MS
Matrix: Water
Analysis Batch: 587300

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	ND		2.00	2.40		mg/L		120	40 - 150		

Lab Sample ID: 480-186340-1 MSD
Matrix: Water
Analysis Batch: 587300

Client Sample ID: 828109-MW-2-062121
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		2.00	2.40		mg/L		120	40 - 150	0	20

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

GC/MS VOA

Analysis Batch: 587096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	8260C	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	8260C	
480-186340-3	828109-MW-7-062121	Total/NA	Water	8260C	
480-186340-4	828109-MW-8-062121	Total/NA	Water	8260C	
480-186340-5	TB-01	Total/NA	Water	8260C	
MB 480-587096/7	Method Blank	Total/NA	Water	8260C	
LCS 480-587096/5	Lab Control Sample	Total/NA	Water	8260C	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	8260C	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 586752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	3510C	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	3510C	
480-186340-3	828109-MW-7-062121	Total/NA	Water	3510C	
480-186340-4	828109-MW-8-062121	Total/NA	Water	3510C	
MB 480-586752/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-586752/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	3510C	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	3510C	

Prep Batch: 587140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	3510C	
MB 480-587140/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-587140/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	3510C	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	3510C	

Analysis Batch: 587795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	8270D	587140
MB 480-587140/1-A	Method Blank	Total/NA	Water	8270D	587140
LCS 480-587140/2-A	Lab Control Sample	Total/NA	Water	8270D	587140
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	8270D	587140
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	8270D	587140

Analysis Batch: 587818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	8270D SIM ID	586752
480-186340-2	828109-MW-3B-062121	Total/NA	Water	8270D SIM ID	586752
480-186340-3	828109-MW-7-062121	Total/NA	Water	8270D SIM ID	586752
480-186340-4	828109-MW-8-062121	Total/NA	Water	8270D SIM ID	586752
MB 480-586752/1-A	Method Blank	Total/NA	Water	8270D SIM ID	586752
LCS 480-586752/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	586752
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	8270D SIM ID	586752
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	8270D SIM ID	586752

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

GC Semi VOA

Prep Batch: 586730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	3510C	
MB 480-586730/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-586730/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	3510C	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	3510C	

Analysis Batch: 586775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	8081B	586730
MB 480-586730/1-A	Method Blank	Total/NA	Water	8081B	586730
LCS 480-586730/2-A	Lab Control Sample	Total/NA	Water	8081B	586730
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	8081B	586730
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	8081B	586730

Prep Batch: 588013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	3510C	
MB 480-588013/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-588013/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	3510C	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	3510C	

Analysis Batch: 588119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	8082A	588013
MB 480-588013/1-A	Method Blank	Total/NA	Water	8082A	588013
LCS 480-588013/2-A	Lab Control Sample	Total/NA	Water	8082A	588013
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	8082A	588013
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	8082A	588013

LCMS

Prep Batch: 168431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	3535	
MB 200-168431/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-168431/2-A	Lab Control Sample	Total/NA	Water	3535	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	3535	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	3535	

Analysis Batch: 168505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	537 (modified)	168431
MB 200-168431/1-A	Method Blank	Total/NA	Water	537 (modified)	168431
LCS 200-168431/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	168431
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	537 (modified)	168431
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	537 (modified)	168431

Metals

Prep Batch: 586557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	3005A	
MB 480-586557/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-586557/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	3005A	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	3005A	

Analysis Batch: 586756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	6010C	586557
MB 480-586557/1-A	Method Blank	Total/NA	Water	6010C	586557
LCS 480-586557/2-A	Lab Control Sample	Total/NA	Water	6010C	586557
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	6010C	586557
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	6010C	586557

General Chemistry

Analysis Batch: 586489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	353.2	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	353.2	
480-186340-3	828109-MW-7-062121	Total/NA	Water	353.2	
480-186340-4	828109-MW-8-062121	Total/NA	Water	353.2	
MB 480-586489/28	Method Blank	Total/NA	Water	353.2	
MB 480-586489/4	Method Blank	Total/NA	Water	353.2	
LCS 480-586489/29	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-586489/5	Lab Control Sample	Total/NA	Water	353.2	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	353.2	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	353.2	

Analysis Batch: 586493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	353.2	
MB 480-586493/3	Method Blank	Total/NA	Water	353.2	
LCS 480-586493/4	Lab Control Sample	Total/NA	Water	353.2	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	353.2	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	353.2	

Analysis Batch: 586508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	SM 3500 FE D	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	SM 3500 FE D	
480-186340-3	828109-MW-7-062121	Total/NA	Water	SM 3500 FE D	
480-186340-4	828109-MW-8-062121	Total/NA	Water	SM 3500 FE D	
MB 480-586508/27	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-586508/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-586508/28	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-586508/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	SM 3500 FE D	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	SM 3500 FE D	
480-186340-4 MS	828109-MW-8-062121	Total/NA	Water	SM 3500 FE D	
480-186340-1 DU	828109-MW-2-062121	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 586508 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-2 DU	828109-MW-3B-062121	Total/NA	Water	SM 3500 FE D	
480-186340-3 DU	828109-MW-7-062121	Total/NA	Water	SM 3500 FE D	
480-186340-4 DU	828109-MW-8-062121	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 586516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	Nitrate by calc	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	Nitrate by calc	
480-186340-3	828109-MW-7-062121	Total/NA	Water	Nitrate by calc	
480-186340-4	828109-MW-8-062121	Total/NA	Water	Nitrate by calc	

Analysis Batch: 586517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-2	828109-MW-3B-062121	Total/NA	Water	353.2	
480-186340-3	828109-MW-7-062121	Total/NA	Water	353.2	
480-186340-4	828109-MW-8-062121	Total/NA	Water	353.2	

Analysis Batch: 586629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	9060A	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	9060A	
480-186340-3	828109-MW-7-062121	Total/NA	Water	9060A	
480-186340-4	828109-MW-8-062121	Total/NA	Water	9060A	
MB 480-586629/28	Method Blank	Total/NA	Water	9060A	
MB 480-586629/4	Method Blank	Total/NA	Water	9060A	
LCS 480-586629/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-586629/5	Lab Control Sample	Total/NA	Water	9060A	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	9060A	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	9060A	

Analysis Batch: 586725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	SM 4500 Cl- E	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	SM 4500 Cl- E	
480-186340-3	828109-MW-7-062121	Total/NA	Water	SM 4500 Cl- E	
480-186340-4	828109-MW-8-062121	Total/NA	Water	SM 4500 Cl- E	
MB 480-586725/178	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-586725/190	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-586725/221	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-586725/227	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-586725/239	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-586725/189	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-586725/226	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-586725/238	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	SM 4500 Cl- E	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 586726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	D516-90, 02	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	D516-90, 02	

General Chemistry (Continued)

Analysis Batch: 586726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-3	828109-MW-7-062121	Total/NA	Water	D516-90, 02	
480-186340-4	828109-MW-8-062121	Total/NA	Water	D516-90, 02	
MB 480-586726/219	Method Blank	Total/NA	Water	D516-90, 02	
LCS 480-586726/220	Lab Control Sample	Total/NA	Water	D516-90, 02	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	D516-90, 02	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	D516-90, 02	

Analysis Batch: 586738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	SM 2320B	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	SM 2320B	
480-186340-3	828109-MW-7-062121	Total/NA	Water	SM 2320B	
480-186340-4	828109-MW-8-062121	Total/NA	Water	SM 2320B	
MB 480-586738/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-586738/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	SM 2320B	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	SM 2320B	

Analysis Batch: 587300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186340-1	828109-MW-2-062121	Total/NA	Water	SM 4500 S2 F	
480-186340-2	828109-MW-3B-062121	Total/NA	Water	SM 4500 S2 F	
480-186340-3	828109-MW-7-062121	Total/NA	Water	SM 4500 S2 F	
480-186340-4	828109-MW-8-062121	Total/NA	Water	SM 4500 S2 F	
MB 480-587300/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-587300/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-186340-1 MS	828109-MW-2-062121	Total/NA	Water	SM 4500 S2 F	
480-186340-1 MSD	828109-MW-2-062121	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Client Sample ID: 828109-MW-2-062121

Lab Sample ID: 480-186340-1

Date Collected: 06/21/21 14:30

Matrix: Water

Date Received: 06/22/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587096	06/26/21 11:20	AXK	TAL BUF
Total/NA	Prep	3510C			587140	06/27/21 09:30	JMP	TAL BUF
Total/NA	Analysis	8270D		1	587795	07/02/21 06:13	PJQ	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 17:14	RJS	TAL BUF
Total/NA	Prep	3510C			586730	06/24/21 06:56	SMP	TAL BUF
Total/NA	Analysis	8081B		1	586775	06/24/21 14:21	JLS	TAL BUF
Total/NA	Prep	3510C			588013	07/03/21 08:50	JMP	TAL BUF
Total/NA	Analysis	8082A		1	588119	07/06/21 15:15	NC	TAL BUF
Total/NA	Prep	3535			168431	06/25/21 12:40	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168505	06/28/21 19:55	BWC	TAL BUR
Total/NA	Prep	3005A			586557	06/23/21 08:35	ADM	TAL BUF
Total/NA	Analysis	6010C		1	586756	06/23/21 21:11	LMH	TAL BUF
Total/NA	Analysis	353.2		1	586489	06/22/21 16:39	ALT	TAL BUF
Total/NA	Analysis	353.2		1	586493	06/22/21 17:42	ALT	TAL BUF
Total/NA	Analysis	9060A		1	586629	06/23/21 07:52	CLA	TAL BUF
Total/NA	Analysis	D516-90, 02		2	586726	06/24/21 04:35	SRW	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586516	06/22/21 17:42	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 15:42	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	586508	06/22/21 16:40	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		10	586725	06/24/21 03:14	SRW	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587300	06/28/21 16:11	MJB	TAL BUF

Client Sample ID: 828109-MW-3B-062121

Lab Sample ID: 480-186340-2

Date Collected: 06/21/21 13:00

Matrix: Water

Date Received: 06/22/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587096	06/26/21 11:42	AXK	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 17:38	RJS	TAL BUF
Total/NA	Analysis	353.2		1	586489	06/22/21 16:57	ALT	TAL BUF
Total/NA	Analysis	353.2		1	586517	06/22/21 16:57	ALT	TAL BUF
Total/NA	Analysis	9060A		1	586629	06/23/21 05:27	CLA	TAL BUF
Total/NA	Analysis	D516-90, 02		1	586726	06/24/21 04:30	SRW	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586516	06/22/21 16:57	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 16:04	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	586508	06/22/21 16:40	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	586725	06/24/21 02:45	SRW	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587300	06/28/21 16:11	MJB	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-MW-7-062121
Lab Sample ID: 480-186340-3
Date Collected: 06/21/21 14:50
Matrix: Water
Date Received: 06/22/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587096	06/26/21 12:04	AXK	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 18:02	RJS	TAL BUF
Total/NA	Analysis	353.2		1	586489	06/22/21 16:58	ALT	TAL BUF
Total/NA	Analysis	353.2		1	586517	06/22/21 16:58	ALT	TAL BUF
Total/NA	Analysis	9060A		1	586629	06/23/21 09:17	CLA	TAL BUF
Total/NA	Analysis	D516-90, 02		5	586726	06/24/21 04:44	SRW	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586516	06/22/21 16:58	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 16:12	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	586508	06/22/21 16:40	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		60	586725	06/24/21 03:36	SRW	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587300	06/28/21 16:11	MJB	TAL BUF

Client Sample ID: 828109-MW-8-062121
Lab Sample ID: 480-186340-4
Date Collected: 06/21/21 17:15
Matrix: Water
Date Received: 06/22/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587096	06/26/21 12:26	AXK	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 18:26	RJS	TAL BUF
Total/NA	Analysis	353.2		1	586489	06/22/21 16:59	ALT	TAL BUF
Total/NA	Analysis	353.2		1	586517	06/22/21 16:59	ALT	TAL BUF
Total/NA	Analysis	9060A		1	586629	06/23/21 09:46	CLA	TAL BUF
Total/NA	Analysis	D516-90, 02		10	586726	06/24/21 04:53	SRW	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586516	06/22/21 16:59	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 16:21	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	586508	06/22/21 16:40	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		60	586725	06/24/21 03:36	SRW	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587300	06/28/21 16:11	MJB	TAL BUF

Client Sample ID: TB-01
Lab Sample ID: 480-186340-5
Date Collected: 06/21/21 00:00
Matrix: Water
Date Received: 06/22/21 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587096	06/26/21 12:49	AXK	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-186340-1
Project/Site: Speedy's Cleaners #828109

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	08-02-21

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

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-16-21

Method Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
D516-90, 02	Sulfate	ASTM	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186340-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-186340-1	828109-MW-2-062121	Water	06/21/21 14:30	06/22/21 10:55
480-186340-2	828109-MW-3B-062121	Water	06/21/21 13:00	06/22/21 10:55
480-186340-3	828109-MW-7-062121	Water	06/21/21 14:50	06/22/21 10:55
480-186340-4	828109-MW-8-062121	Water	06/21/21 17:15	06/22/21 10:55
480-186340-5	TB-01	Water	06/21/21 00:00	06/22/21 10:55

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: CDM Smith	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-162178-35622.1
Client Contact: Charles Gregory	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 4
Company: New York State D.E.C.	PWSID:			Job #:
Address: 625 Broadway Division of Environmental Remediation	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12233-7014	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID 140047			
Email: charles.gregory@dec.ny.gov	WO #:			
Project Name: Speedy's Cleaners #828109	Project #: 48023897			
Site:	SSOW#:			

480-186340 Chain of Custody

Analysis Reques

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4-Dioxane	SM4500_S2_F - Sulfide, Total	353.2_Nitrite, D516, Nitrate_Calc, SM4500_Cl_E	2320B - Alkalinity	3500_FE_D - Ferrous Iron	PFC_IDA - PFAS, Standard List (21 analytes)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals		Total Number of containers	Special Instructions/Note:
Preservation Code:							A	A	N	CB	N	N	N	N	N	N	N	D			
828109-GW-MW-2-062121	6/21/21	1430	G	Water			X	X	X	X	X	X	X	X	X	X	X	X		21	
828109-GW-MW-2-062121-MS	6/21/21	1435	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X		21	
828109 GW-MW-2-062121-MSD	6/21/21	1440	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X		21	
828109-GW-MW-3B-062121	6/21/21	1300	G	Water			X	X	X	X	X	X	X							12	
828109-GW-MW-7-062121	6/21/21	1450	G	Water			X	X	X	X	X	X	X							12	
828109-GW-MW-8-062121	6/21/21	1715	G	Water			X	X	X	X	X	X	X							12	
TB-01	—	—		Water			X													2	
				Water																	
				Water																	
				Water																	
				Water																	

6/22/21

I - Ice
J - DI Water
K - EDTA
L - EDA
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		6/22/21 1055	CDM Smith			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/22/21 10:55	Company TH

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.3, 3.8

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S		Carrier Tracking No(s): 590.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-186340-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 7/6/2021			Preservation Codes:
City: South Burlington	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Speedy's Cleaners #828109	Project #: 48023897			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IVWT PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
828109-MW-2-062121 (480-186340-1)	6/21/21	14:30 Eastern		Water			X	1	
828109-MW-2-062121 (480-186340-1MS)	6/21/21	14:30 Eastern	MS	Water			X	1	
828109-MW-2-062121 (480-186340-1MSD)	6/21/21	14:30 Eastern	MSD	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

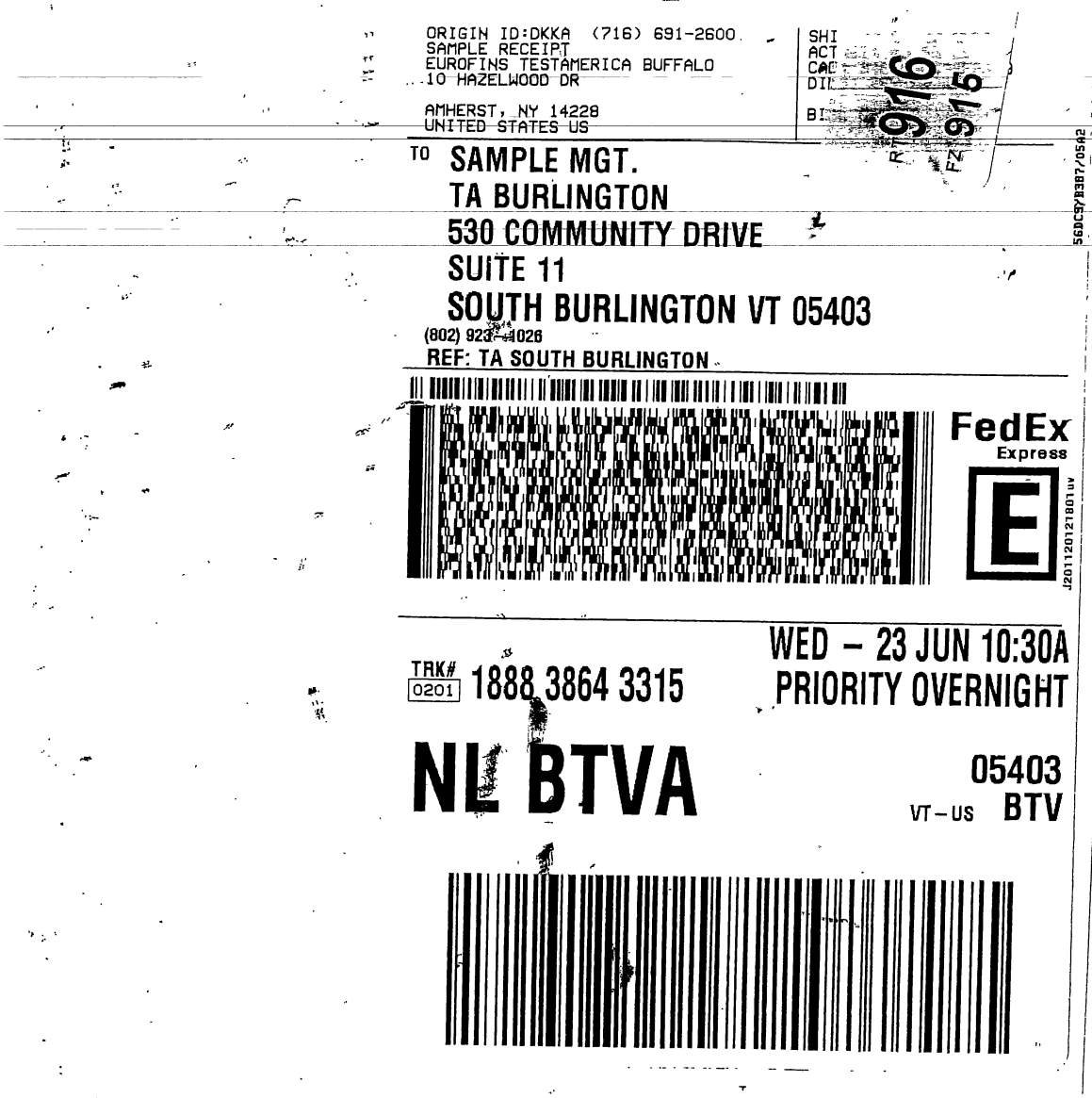
Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by: Christine Nicolo	Date/Time: 6/22/21 1700	Company TA	Received by:	Date/Time: 6/23/21 10:30	Company TAB/VP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020



ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHI
ACT
CAD
DIM
BI

TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-4026
REF: TA SOUTH BURLINGTON

FedEx Express

TRK# 0201 1888 3864 3315

WED - 23 JUN 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-186340-1

Login Number: 186340
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-186340-1

Login Number: 186340
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington
List Creation: 06/23/21 02:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	151320
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	2.3ºC
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	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-186377-1
Client Project/Site: Speedy's Cleaners #828109
Revision: 1

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Authorized for release by:
9/28/2021 9:48:50 AM
Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

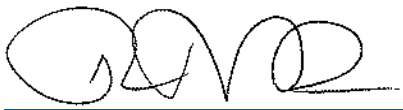
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Ryan VanDette
Project Manager II
9/28/2021 9:48:50 AM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 10
Surrogate Summary 24
Isotope Dilution Summary 26
QC Sample Results 27
QC Association Summary 41
Lab Chronicle 45
Certification Summary 47
Method Summary 48
Sample Summary 49
Chain of Custody 50
Receipt Checklists 51

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-186377-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-186377-1

Comments
No additional comments.

Receipt
The samples were received on 6/22/2021 7:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 828109-GW-MW-6-062221 (480-186377-1) and 828109-GW-MW-906-062221 (480-186377-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828109-GW-MW-5-062221 (480-186377-3) and 828109-GW-MW-3-062221 (480-186377-4). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-587795 recovered above the upper control limit for Carbazole. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 828109-GW-MW-6-062221 (480-186377-1) and 828109-GW-MW-906-062221 (480-186377-2).

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-587140 and analytical batch 480-587795 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The Method Blank for preparation batch 480-587140 and analytical batch 480-587795 contained Di-n-butyl phthalate above the reporting limit. The Laboratory Control Sample for preparation batch 480-587140 and analytical batch 480-587795 recovered above the upper control limit for Di-n-butyl phthalate. The laboratory suspects the cause to be systemic contamination present in all extracts. The following samples are impacted: 828109-GW-MW-6-062221 (480-186377-1) and 828109-GW-MW-906-062221 (480-186377-2). The results have been qualified and reported.

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

GC Semi VOA
Method 8081B: For method 8081, the recovery of the one surrogate in samples 828109-GW-MW-6-062221 (480-186377-1) and 828109-GW-MW-906-062221 (480-186377-2) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. 828109-GW-MW-6-062221 (480-186377-1), 828109-GW-MW-906-062221 (480-186377-2), (LCS 480-586695/2-A) and (MB 480-586695/1-A)

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

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The

Job ID: 480-186377-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 828109-GW-MW-6-062221 (480-186377-1), 828109-GW-MW-906-062221 (480-186377-2), 828109-GW-MW-5-062221 (480-186377-3) and 828109-GW-MW-3-062221 (480-186377-4).

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

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Client Sample ID: 828109-GW-MW-6-062221 — Lab Sample ID: 480-186377-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.98	J	2.0	0.32	ug/L	2		8260C	Total/NA
Acenaphthene	2.2	J	5.0	0.41	ug/L	1		8270D	Total/NA
Dibenzofuran	0.71	J	10	0.51	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	15	B *+	5.0	0.31	ug/L	1		8270D	Total/NA
Fluorene	1.6	J	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	0.96	J	5.0	0.76	ug/L	1		8270D	Total/NA
4,4'-DDD	0.045	J	0.050	0.0092	ug/L	1		8081B	Total/NA
4,4'-DDE	0.042	J	0.050	0.012	ug/L	1		8081B	Total/NA
Aldrin	0.012	J	0.050	0.0081	ug/L	1		8081B	Total/NA
alpha-BHC	0.025	J	0.050	0.0077	ug/L	1		8081B	Total/NA
cis-Chlordane	0.019	J	0.050	0.015	ug/L	1		8081B	Total/NA
Endrin aldehyde	0.048	J B	0.050	0.016	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.028	J B	0.050	0.0080	ug/L	1		8081B	Total/NA
Heptachlor	0.030	J	0.050	0.0085	ug/L	1		8081B	Total/NA
Barium	0.22		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	143		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00080	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	3.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	43.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.59	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0039	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	6.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	142		1.0	0.32	mg/L	1		6010C	Total/NA
Total Organic Carbon	10.1		1.0	0.43	mg/L	1		9060A	Total/NA
Alkalinity, Total	545		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: 828109-GW-MW-906-062221 — Lab Sample ID: 480-186377-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.77	J	2.0	0.32	ug/L	2		8260C	Total/NA
Acenaphthene	2.3	J	5.0	0.41	ug/L	1		8270D	Total/NA
Dibenzofuran	0.75	J	10	0.51	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	22	B *+	5.0	0.31	ug/L	1		8270D	Total/NA
Fluorene	1.7	J	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	1.1	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	0.56	J	5.0	0.44	ug/L	1		8270D	Total/NA
4,4'-DDE	0.014	J	0.050	0.012	ug/L	1		8081B	Total/NA
Aldrin	0.019	J	0.050	0.0081	ug/L	1		8081B	Total/NA
alpha-BHC	0.021	J	0.050	0.0077	ug/L	1		8081B	Total/NA
cis-Chlordane	0.016	J	0.050	0.015	ug/L	1		8081B	Total/NA
delta-BHC	0.027	J B	0.050	0.010	ug/L	1		8081B	Total/NA
gamma-BHC (Lindane)	0.047	J B	0.050	0.0080	ug/L	1		8081B	Total/NA
Barium	0.23		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	148		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00095	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	3.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	44.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.61	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0043	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	6.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	147		1.0	0.32	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Client Sample ID: 828109-GW-MW-906-062221 (Continued) — Lab Sample ID: 480-186377-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	0.023	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	9.8		1.0	0.43	mg/L	1		9060A	Total/NA
Nitrate as N	0.023	J	0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	534		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: 828109-GW-MW-5-062221 — Lab Sample ID: 480-186377-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	680		40	32	ug/L	40		8260C	Total/NA
Tetrachloroethene	1900		40	14	ug/L	40		8260C	Total/NA
Trichloroethene	95		40	18	ug/L	40		8260C	Total/NA
Vinyl chloride	48		40	36	ug/L	40		8260C	Total/NA
Nitrate Nitrite as N	6.8	B	0.10	0.040	mg/L	2		353.2	Total/NA
Nitrate Nitrite as N	7.2	B	0.10	0.040	mg/L	2		353.2	Total/NA
Nitrate Nitrite as N	6.8	B	0.25	0.10	mg/L	5		353.2	Total/NA
Nitrate Nitrite as N	6.4	B	0.25	0.10	mg/L	5		353.2	Total/NA
Nitrite as N	0.022	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.6		1.0	0.43	mg/L	1		9060A	Total/NA
Nitrate as N	6.8		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	386		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: 828109-GW-MW-3-062221 — Lab Sample ID: 480-186377-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	1.5	J	4.0	1.4	ug/L	4		8260C	Total/NA
Vinyl chloride	86		4.0	3.6	ug/L	4		8260C	Total/NA
Nitrate Nitrite as N	0.021	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	6.2		1.0	0.43	mg/L	1		9060A	Total/NA
Nitrate as N	0.021	J	0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	438		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TB-02 — Lab Sample ID: 480-186377-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Client Sample ID: 828109-GW-MW-6-062221

Lab Sample ID: 480-186377-1

Date Collected: 06/22/21 09:05

Matrix: Water

Date Received: 06/22/21 19:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/26/21 13:11	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/26/21 13:11	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/26/21 13:11	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/26/21 13:11	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/26/21 13:11	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/26/21 13:11	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/26/21 13:11	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/26/21 13:11	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/26/21 13:11	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/26/21 13:11	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/26/21 13:11	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/26/21 13:11	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/26/21 13:11	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/26/21 13:11	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/26/21 13:11	2
2-Hexanone	ND		10	2.5	ug/L			06/26/21 13:11	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/26/21 13:11	2
Acetone	ND		20	6.0	ug/L			06/26/21 13:11	2
Benzene	ND		2.0	0.82	ug/L			06/26/21 13:11	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/26/21 13:11	2
Bromoform	ND		2.0	0.52	ug/L			06/26/21 13:11	2
Bromomethane	ND		2.0	1.4	ug/L			06/26/21 13:11	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/26/21 13:11	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/26/21 13:11	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/26/21 13:11	2
Chloroethane	ND		2.0	0.64	ug/L			06/26/21 13:11	2
Chloroform	ND		2.0	0.68	ug/L			06/26/21 13:11	2
Chloromethane	ND		2.0	0.70	ug/L			06/26/21 13:11	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/26/21 13:11	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/26/21 13:11	2
Cyclohexane	ND		2.0	0.36	ug/L			06/26/21 13:11	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/26/21 13:11	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/26/21 13:11	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/26/21 13:11	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/26/21 13:11	2
Methyl acetate	ND		5.0	2.6	ug/L			06/26/21 13:11	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/26/21 13:11	2
Methylcyclohexane	**0.98**	**J**	2.0	0.32	ug/L			06/26/21 13:11	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/26/21 13:11	2
Styrene	ND		2.0	1.5	ug/L			06/26/21 13:11	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/26/21 13:11	2
Toluene	ND		2.0	1.0	ug/L			06/26/21 13:11	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/26/21 13:11	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/26/21 13:11	2
Trichloroethene	ND		2.0	0.92	ug/L			06/26/21 13:11	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/26/21 13:11	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/26/21 13:11	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/26/21 13:11	2

Client Sample ID: 828109-GW-MW-6-062221

Date Collected: 06/22/21 09:05
Date Received: 06/22/21 19:15

Lab Sample ID: 480-186377-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/26/21 13:11*	*2*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*06/26/21 13:11*	*2*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/26/21 13:11*	*2*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/26/21 13:11*	*2*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		06/24/21 08:56	07/02/21 18:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*06/24/21 08:56*	*07/02/21 18:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 08:24	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 08:24	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 08:24	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 08:24	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 08:24	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 08:24	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:24	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 08:24	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 08:24	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 08:24	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:24	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 08:24	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 08:24	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:24	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 08:24	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 08:24	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 08:24	1
Acenaphthene	**2.2**	**J**	5.0	0.41	ug/L		06/27/21 09:30	07/02/21 08:24	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 08:24	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 08:24	1
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 08:24	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 08:24	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 08:24	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 08:24	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 08:24	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 08:24	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 08:24	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 08:24	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 08:24	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 08:24	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 08:24	1

Client Sample ID: 828109-GW-MW-6-062221
Lab Sample ID: 480-186377-1
Date Collected: 06/22/21 09:05
Matrix: Water
Date Received: 06/22/21 19:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:24	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 08:24	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 08:24	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 08:24	1
Carbazole	ND	*+	5.0	0.30	ug/L		06/27/21 09:30	07/02/21 08:24	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 08:24	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 08:24	1
Dibenzofuran	**0.71**	**J**	10	0.51	ug/L		06/27/21 09:30	07/02/21 08:24	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 08:24	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 08:24	1
Di-n-butyl phthalate	**15**	**B *+**	5.0	0.31	ug/L		06/27/21 09:30	07/02/21 08:24	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 08:24	1
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:24	1
Fluorene	**1.6**	**J**	5.0	0.36	ug/L		06/27/21 09:30	07/02/21 08:24	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 08:24	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 08:24	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 08:24	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 08:24	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 08:24	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 08:24	1
Naphthalene	**0.96**	**J**	5.0	0.76	ug/L		06/27/21 09:30	07/02/21 08:24	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 08:24	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 08:24	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 08:24	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 08:24	1
Phenanthrene	ND		5.0	0.44	ug/L		06/27/21 09:30	07/02/21 08:24	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 08:24	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*41 - 120*	*06/27/21 09:30*	*07/02/21 08:24*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*06/27/21 09:30*	*07/02/21 08:24*	*1*
2-Fluorophenol (Surr)	*67*		*35 - 120*	*06/27/21 09:30*	*07/02/21 08:24*	*1*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*	*06/27/21 09:30*	*07/02/21 08:24*	*1*
Phenol-d5 (Surr)	*46*		*22 - 120*	*06/27/21 09:30*	*07/02/21 08:24*	*1*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*06/27/21 09:30*	*07/02/21 08:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.045**	**J**	0.050	0.0092	ug/L		06/24/21 06:56	06/24/21 19:14	1
4,4'-DDE	**0.042**	**J**	0.050	0.012	ug/L		06/24/21 06:56	06/24/21 19:14	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 19:14	1
Aldrin	**0.012**	**J**	0.050	0.0081	ug/L		06/24/21 06:56	06/24/21 19:14	1
alpha-BHC	**0.025**	**J**	0.050	0.0077	ug/L		06/24/21 06:56	06/24/21 19:14	1
beta-BHC	ND		0.050	0.025	ug/L		06/24/21 06:56	06/24/21 19:14	1
cis-Chlordane	**0.019**	**J**	0.050	0.015	ug/L		06/24/21 06:56	06/24/21 19:14	1
delta-BHC	ND		0.050	0.010	ug/L		06/24/21 06:56	06/24/21 19:14	1
Dieldrin	ND		0.050	0.0098	ug/L		06/24/21 06:56	06/24/21 19:14	1
Endosulfan I	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 19:14	1
Endosulfan II	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 19:14	1

Client Sample ID: 828109-GW-MW-6-062221

Date Collected: 06/22/21 09:05
Date Received: 06/22/21 19:15

Lab Sample ID: 480-186377-1

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/24/21 06:56	06/24/21 19:14	1
Endrin	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 19:14	1
Endrin aldehyde	**0.048**	**J B**	0.050	0.016	ug/L		06/24/21 06:56	06/24/21 19:14	1
Endrin ketone	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 19:14	1
gamma-BHC (Lindane)	**0.028**	**J B**	0.050	0.0080	ug/L		06/24/21 06:56	06/24/21 19:14	1
Heptachlor	**0.030**	**J**	0.050	0.0085	ug/L		06/24/21 06:56	06/24/21 19:14	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/24/21 06:56	06/24/21 19:14	1
Methoxychlor	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 19:14	1
Toxaphene	ND		0.50	0.12	ug/L		06/24/21 06:56	06/24/21 19:14	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*20 - 120*	*06/24/21 06:56*	*06/24/21 19:14*	*1*
DCB Decachlorobiphenyl	*48*		*20 - 120*	*06/24/21 06:56*	*06/24/21 19:14*	*1*
Tetrachloro-m-xylene	*135*	*S1+*	*44 - 120*	*06/24/21 06:56*	*06/24/21 19:14*	*1*
Tetrachloro-m-xylene	*82*		*44 - 120*	*06/24/21 06:56*	*06/24/21 19:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:03	1
PCB-1221	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:03	1
PCB-1232	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:03	1
PCB-1242	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:03	1
PCB-1248	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:03	1
PCB-1254	ND		0.50	0.25	ug/L		07/03/21 08:36	07/06/21 15:03	1
PCB-1260	ND		0.50	0.25	ug/L		07/03/21 08:36	07/06/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*19 - 120*	*07/03/21 08:36*	*07/06/21 15:03*	*1*
DCB Decachlorobiphenyl	*80*		*19 - 120*	*07/03/21 08:36*	*07/06/21 15:03*	*1*
Tetrachloro-m-xylene	*81*		*39 - 121*	*07/03/21 08:36*	*07/06/21 15:03*	*1*
Tetrachloro-m-xylene	*84*		*39 - 121*	*07/03/21 08:36*	*07/06/21 15:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/23/21 16:46	06/24/21 20:41	1
Antimony	ND		0.020	0.0068	mg/L		06/23/21 16:46	06/24/21 20:41	1
Arsenic	ND		0.015	0.0056	mg/L		06/23/21 16:46	06/24/21 20:41	1
Barium	**0.22**		0.0020	0.00070	mg/L		06/23/21 16:46	06/24/21 20:41	1
Beryllium	ND		0.0020	0.00030	mg/L		06/23/21 16:46	06/24/21 20:41	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/21 16:46	06/24/21 20:41	1
Calcium	**143**		0.50	0.10	mg/L		06/23/21 16:46	06/24/21 20:41	1
Chromium	ND		0.0040	0.0010	mg/L		06/23/21 16:46	06/24/21 20:41	1
Cobalt	**0.00080**	**J**	0.0040	0.00063	mg/L		06/23/21 16:46	06/24/21 20:41	1
Copper	ND		0.010	0.0016	mg/L		06/23/21 16:46	06/24/21 20:41	1
Iron	**3.3**		0.050	0.019	mg/L		06/23/21 16:46	06/24/21 20:41	1
Lead	ND		0.010	0.0030	mg/L		06/23/21 16:46	06/24/21 20:41	1
Magnesium	**43.2**		0.20	0.043	mg/L		06/23/21 16:46	06/24/21 20:41	1
Manganese	**0.59**	**B**	0.0030	0.00040	mg/L		06/23/21 16:46	06/24/21 20:41	1
Nickel	**0.0039**	**J**	0.010	0.0013	mg/L		06/23/21 16:46	06/24/21 20:41	1

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-GW-MW-6-062221
Lab Sample ID: 480-186377-1
Date Collected: 06/22/21 09:05
Matrix: Water
Date Received: 06/22/21 19:15

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**6.0**		0.50	0.10	mg/L		06/23/21 16:46	06/24/21 20:41	1
Selenium	ND		0.025	0.0087	mg/L		06/23/21 16:46	06/24/21 20:41	1
Silver	ND		0.0060	0.0017	mg/L		06/23/21 16:46	06/24/21 20:41	1
Sodium	**142**		1.0	0.32	mg/L		06/23/21 16:46	06/24/21 20:41	1
Thallium	ND		0.020	0.010	mg/L		06/23/21 16:46	06/24/21 20:41	1
Vanadium	ND		0.0050	0.0015	mg/L		06/23/21 16:46	06/24/21 20:41	1
Zinc	ND		0.010	0.0015	mg/L		06/23/21 16:46	06/24/21 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 17:14	1
Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 17:14	1
Total Organic Carbon	**10.1**		1.0	0.43	mg/L			06/29/21 19:52	1
Nitrate as N	ND		0.050	0.020	mg/L			06/23/21 17:14	1
Alkalinity, Total	**545**		5.0	0.79	mg/L			06/23/21 16:42	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/26/21 14:30	1
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Client Sample ID: 828109-GW-MW-906-062221
Lab Sample ID: 480-186377-2
Date Collected: 06/22/21 09:10
Matrix: Water
Date Received: 06/22/21 19:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/26/21 13:33	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/26/21 13:33	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/26/21 13:33	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/26/21 13:33	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/26/21 13:33	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/26/21 13:33	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/26/21 13:33	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/26/21 13:33	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/26/21 13:33	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/26/21 13:33	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/26/21 13:33	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/26/21 13:33	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/26/21 13:33	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/26/21 13:33	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/26/21 13:33	2
2-Hexanone	ND		10	2.5	ug/L			06/26/21 13:33	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/26/21 13:33	2
Acetone	ND		20	6.0	ug/L			06/26/21 13:33	2
Benzene	ND		2.0	0.82	ug/L			06/26/21 13:33	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/26/21 13:33	2
Bromoform	ND		2.0	0.52	ug/L			06/26/21 13:33	2
Bromomethane	ND		2.0	1.4	ug/L			06/26/21 13:33	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/26/21 13:33	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/26/21 13:33	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/26/21 13:33	2
Chloroethane	ND		2.0	0.64	ug/L			06/26/21 13:33	2

Client Sample ID: 828109-GW-MW-906-062221
Date Collected: 06/22/21 09:10
Date Received: 06/22/21 19:15

Lab Sample ID: 480-186377-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		2.0	0.68	ug/L			06/26/21 13:33	2
Chloromethane	ND		2.0	0.70	ug/L			06/26/21 13:33	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/26/21 13:33	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/26/21 13:33	2
Cyclohexane	ND		2.0	0.36	ug/L			06/26/21 13:33	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/26/21 13:33	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/26/21 13:33	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/26/21 13:33	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/26/21 13:33	2
Methyl acetate	ND		5.0	2.6	ug/L			06/26/21 13:33	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/26/21 13:33	2
Methylcyclohexane	**0.77**	**J**	2.0	0.32	ug/L			06/26/21 13:33	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/26/21 13:33	2
Styrene	ND		2.0	1.5	ug/L			06/26/21 13:33	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/26/21 13:33	2
Toluene	ND		2.0	1.0	ug/L			06/26/21 13:33	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/26/21 13:33	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/26/21 13:33	2
Trichloroethene	ND		2.0	0.92	ug/L			06/26/21 13:33	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/26/21 13:33	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/26/21 13:33	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/26/21 13:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/26/21 13:33*	*2*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/26/21 13:33*	*2*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/26/21 13:33*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/26/21 13:33*	*2*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		06/24/21 08:56	07/02/21 19:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*06/24/21 08:56*	*07/02/21 19:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 08:50	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 08:50	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 08:50	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 08:50	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 08:50	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 08:50	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:50	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 08:50	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 08:50	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 08:50	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:50	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 08:50	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 08:50	1

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-GW-MW-906-062221
Lab Sample ID: 480-186377-2
Date Collected: 06/22/21 09:10
Matrix: Water
Date Received: 06/22/21 19:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:50	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 08:50	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 08:50	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 08:50	1
Acenaphthene	**2.3**	**J**	5.0	0.41	ug/L		06/27/21 09:30	07/02/21 08:50	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 08:50	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 08:50	1
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 08:50	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 08:50	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 08:50	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 08:50	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 08:50	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 08:50	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 08:50	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 08:50	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 08:50	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 08:50	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 08:50	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:50	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 08:50	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 08:50	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 08:50	1
Carbazole	ND	*+	5.0	0.30	ug/L		06/27/21 09:30	07/02/21 08:50	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 08:50	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 08:50	1
Dibenzofuran	**0.75**	**J**	10	0.51	ug/L		06/27/21 09:30	07/02/21 08:50	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 08:50	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 08:50	1
Di-n-butyl phthalate	**22**	**B *+**	5.0	0.31	ug/L		06/27/21 09:30	07/02/21 08:50	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 08:50	1
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 08:50	1
Fluorene	**1.7**	**J**	5.0	0.36	ug/L		06/27/21 09:30	07/02/21 08:50	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 08:50	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 08:50	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 08:50	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 08:50	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 08:50	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 08:50	1
Naphthalene	**1.1**	**J**	5.0	0.76	ug/L		06/27/21 09:30	07/02/21 08:50	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 08:50	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 08:50	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 08:50	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 08:50	1

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-GW-MW-906-062221
Lab Sample ID: 480-186377-2
Date Collected: 06/22/21 09:10
Matrix: Water
Date Received: 06/22/21 19:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**0.56**	**J**	5.0	0.44	ug/L		06/27/21 09:30	07/02/21 08:50	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 08:50	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*41 - 120*	*06/27/21 09:30*	*07/02/21 08:50*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*06/27/21 09:30*	*07/02/21 08:50*	*1*
2-Fluorophenol (Surr)	*70*		*35 - 120*	*06/27/21 09:30*	*07/02/21 08:50*	*1*
Nitrobenzene-d5 (Surr)	*82*		*46 - 120*	*06/27/21 09:30*	*07/02/21 08:50*	*1*
Phenol-d5 (Surr)	*48*		*22 - 120*	*06/27/21 09:30*	*07/02/21 08:50*	*1*
p-Terphenyl-d14 (Surr)	*68*		*60 - 148*	*06/27/21 09:30*	*07/02/21 08:50*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/24/21 06:56	06/24/21 19:33	1
4,4'-DDE	**0.014**	**J**	0.050	0.012	ug/L		06/24/21 06:56	06/24/21 19:33	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 19:33	1
Aldrin	**0.019**	**J**	0.050	0.0081	ug/L		06/24/21 06:56	06/24/21 19:33	1
alpha-BHC	**0.021**	**J**	0.050	0.0077	ug/L		06/24/21 06:56	06/24/21 19:33	1
beta-BHC	ND		0.050	0.025	ug/L		06/24/21 06:56	06/24/21 19:33	1
cis-Chlordane	**0.016**	**J**	0.050	0.015	ug/L		06/24/21 06:56	06/24/21 19:33	1
delta-BHC	**0.027**	**J B**	0.050	0.010	ug/L		06/24/21 06:56	06/24/21 19:33	1
Dieldrin	ND		0.050	0.0098	ug/L		06/24/21 06:56	06/24/21 19:33	1
Endosulfan I	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 19:33	1
Endosulfan II	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 19:33	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/24/21 06:56	06/24/21 19:33	1
Endrin	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 19:33	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/24/21 06:56	06/24/21 19:33	1
Endrin ketone	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 19:33	1
gamma-BHC (Lindane)	**0.047**	**J B**	0.050	0.0080	ug/L		06/24/21 06:56	06/24/21 19:33	1
Heptachlor	ND		0.050	0.0085	ug/L		06/24/21 06:56	06/24/21 19:33	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/24/21 06:56	06/24/21 19:33	1
Methoxychlor	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 19:33	1
Toxaphene	ND		0.50	0.12	ug/L		06/24/21 06:56	06/24/21 19:33	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*20 - 120*	*06/24/21 06:56*	*06/24/21 19:33*	*1*
DCB Decachlorobiphenyl	*55*		*20 - 120*	*06/24/21 06:56*	*06/24/21 19:33*	*1*
Tetrachloro-m-xylene	*142*	*S1+*	*44 - 120*	*06/24/21 06:56*	*06/24/21 19:33*	*1*
Tetrachloro-m-xylene	*75*		*44 - 120*	*06/24/21 06:56*	*06/24/21 19:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:16	1
PCB-1221	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:16	1
PCB-1232	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:16	1
PCB-1242	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:16	1
PCB-1248	ND		0.50	0.18	ug/L		07/03/21 08:36	07/06/21 15:16	1
PCB-1254	ND		0.50	0.25	ug/L		07/03/21 08:36	07/06/21 15:16	1

Client Sample ID: 828109-GW-MW-906-062221

Lab Sample ID: 480-186377-2

Date Collected: 06/22/21 09:10

Matrix: Water

Date Received: 06/22/21 19:15

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.50	0.25	ug/L		07/03/21 08:36	07/06/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*19 - 120*	*07/03/21 08:36*	*07/06/21 15:16*	*1*
DCB Decachlorobiphenyl	*85*		*19 - 120*	*07/03/21 08:36*	*07/06/21 15:16*	*1*
Tetrachloro-m-xylene	*82*		*39 - 121*	*07/03/21 08:36*	*07/06/21 15:16*	*1*
Tetrachloro-m-xylene	*85*		*39 - 121*	*07/03/21 08:36*	*07/06/21 15:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/23/21 16:46	06/24/21 20:44	1
Antimony	ND		0.020	0.0068	mg/L		06/23/21 16:46	06/24/21 20:44	1
Arsenic	ND		0.015	0.0056	mg/L		06/23/21 16:46	06/24/21 20:44	1
Barium	**0.23**		0.0020	0.00070	mg/L		06/23/21 16:46	06/24/21 20:44	1
Beryllium	ND		0.0020	0.00030	mg/L		06/23/21 16:46	06/24/21 20:44	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/21 16:46	06/24/21 20:44	1
Calcium	**148**		0.50	0.10	mg/L		06/23/21 16:46	06/24/21 20:44	1
Chromium	ND		0.0040	0.0010	mg/L		06/23/21 16:46	06/24/21 20:44	1
Cobalt	**0.00095**	**J**	0.0040	0.00063	mg/L		06/23/21 16:46	06/24/21 20:44	1
Copper	ND		0.010	0.0016	mg/L		06/23/21 16:46	06/24/21 20:44	1
Iron	**3.5**		0.050	0.019	mg/L		06/23/21 16:46	06/24/21 20:44	1
Lead	ND		0.010	0.0030	mg/L		06/23/21 16:46	06/24/21 20:44	1
Magnesium	**44.1**		0.20	0.043	mg/L		06/23/21 16:46	06/24/21 20:44	1
Manganese	**0.61**	**B**	0.0030	0.00040	mg/L		06/23/21 16:46	06/24/21 20:44	1
Nickel	**0.0043**	**J**	0.010	0.0013	mg/L		06/23/21 16:46	06/24/21 20:44	1
Potassium	**6.0**		0.50	0.10	mg/L		06/23/21 16:46	06/24/21 20:44	1
Selenium	ND		0.025	0.0087	mg/L		06/23/21 16:46	06/24/21 20:44	1
Silver	ND		0.0060	0.0017	mg/L		06/23/21 16:46	06/24/21 20:44	1
Sodium	**147**		1.0	0.32	mg/L		06/23/21 16:46	06/24/21 20:44	1
Thallium	ND		0.020	0.010	mg/L		06/23/21 16:46	06/24/21 20:44	1
Vanadium	ND		0.0050	0.0015	mg/L		06/23/21 16:46	06/24/21 20:44	1
Zinc	ND		0.010	0.0015	mg/L		06/23/21 16:46	06/24/21 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.023**	**J**	0.050	0.020	mg/L			06/23/21 17:15	1
Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 17:15	1
Total Organic Carbon	**9.8**		1.0	0.43	mg/L			06/29/21 20:49	1
Nitrate as N	**0.023**	**J**	0.050	0.020	mg/L			06/23/21 17:15	1
Alkalinity, Total	**534**		5.0	0.79	mg/L			06/23/21 17:03	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/26/21 14:30	1
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Client Sample ID: 828109-GW-MW-5-062221

Lab Sample ID: 480-186377-3

Date Collected: 06/22/21 12:15

Matrix: Water

Date Received: 06/22/21 19:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			06/26/21 13:55	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			06/26/21 13:55	40

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Client Sample ID: 828109-GW-MW-5-062221
Date Collected: 06/22/21 12:15
Date Received: 06/22/21 19:15

Lab Sample ID: 480-186377-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			06/26/21 13:55	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			06/26/21 13:55	40
1,1-Dichloroethane	ND		40	15	ug/L			06/26/21 13:55	40
1,1-Dichloroethene	ND		40	12	ug/L			06/26/21 13:55	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			06/26/21 13:55	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			06/26/21 13:55	40
1,2-Dibromoethane	ND		40	29	ug/L			06/26/21 13:55	40
1,2-Dichlorobenzene	ND		40	32	ug/L			06/26/21 13:55	40
1,2-Dichloroethane	ND		40	8.4	ug/L			06/26/21 13:55	40
1,2-Dichloropropane	ND		40	29	ug/L			06/26/21 13:55	40
1,3-Dichlorobenzene	ND		40	31	ug/L			06/26/21 13:55	40
1,4-Dichlorobenzene	ND		40	34	ug/L			06/26/21 13:55	40
2-Butanone (MEK)	ND		400	53	ug/L			06/26/21 13:55	40
2-Hexanone	ND		200	50	ug/L			06/26/21 13:55	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			06/26/21 13:55	40
Acetone	ND		400	120	ug/L			06/26/21 13:55	40
Benzene	ND		40	16	ug/L			06/26/21 13:55	40
Bromodichloromethane	ND		40	16	ug/L			06/26/21 13:55	40
Bromoform	ND		40	10	ug/L			06/26/21 13:55	40
Bromomethane	ND		40	28	ug/L			06/26/21 13:55	40
Carbon disulfide	ND		40	7.6	ug/L			06/26/21 13:55	40
Carbon tetrachloride	ND		40	11	ug/L			06/26/21 13:55	40
Chlorobenzene	ND		40	30	ug/L			06/26/21 13:55	40
Chloroethane	ND		40	13	ug/L			06/26/21 13:55	40
Chloroform	ND		40	14	ug/L			06/26/21 13:55	40
Chloromethane	ND		40	14	ug/L			06/26/21 13:55	40
cis-1,2-Dichloroethene	**680**		40	32	ug/L			06/26/21 13:55	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			06/26/21 13:55	40
Cyclohexane	ND		40	7.2	ug/L			06/26/21 13:55	40
Dibromochloromethane	ND		40	13	ug/L			06/26/21 13:55	40
Dichlorodifluoromethane	ND		40	27	ug/L			06/26/21 13:55	40
Ethylbenzene	ND		40	30	ug/L			06/26/21 13:55	40
Isopropylbenzene	ND		40	32	ug/L			06/26/21 13:55	40
Methyl acetate	ND		100	52	ug/L			06/26/21 13:55	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			06/26/21 13:55	40
Methylcyclohexane	ND		40	6.4	ug/L			06/26/21 13:55	40
Methylene Chloride	ND		40	18	ug/L			06/26/21 13:55	40
Styrene	ND		40	29	ug/L			06/26/21 13:55	40
Tetrachloroethene	**1900**		40	14	ug/L			06/26/21 13:55	40
Toluene	ND		40	20	ug/L			06/26/21 13:55	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			06/26/21 13:55	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			06/26/21 13:55	40
Trichloroethene	**95**		40	18	ug/L			06/26/21 13:55	40
Trichlorofluoromethane	ND		40	35	ug/L			06/26/21 13:55	40
Vinyl chloride	**48**		40	36	ug/L			06/26/21 13:55	40
Xylenes, Total	ND		80	26	ug/L			06/26/21 13:55	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/26/21 13:55*	*40*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*06/26/21 13:55*	*40*

Client Sample ID: 828109-GW-MW-5-062221

Lab Sample ID: 480-186377-3

Date Collected: 06/22/21 12:15
Matrix: Water
Date Received: 06/22/21 19:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/26/21 13:55*	*40*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/26/21 13:55*	*40*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		06/24/21 08:56	07/02/21 19:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*06/24/21 08:56*	*07/02/21 19:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**6.8**	**B**	0.10	0.040	mg/L			06/23/21 19:08	2
Nitrate Nitrite as N	**7.2**	**B**	0.10	0.040	mg/L			06/23/21 19:11	2
Nitrate Nitrite as N	**6.8**	**B**	0.25	0.10	mg/L			06/23/21 19:32	5
Nitrate Nitrite as N	**6.4**	**B**	0.25	0.10	mg/L			06/23/21 19:33	5
Nitrite as N	**0.022**	**J**	0.050	0.020	mg/L			06/23/21 20:17	1
Total Organic Carbon	**2.6**		1.0	0.43	mg/L			06/29/21 21:46	1
Nitrate as N	**6.8**		0.050	0.020	mg/L			06/23/21 17:16	1
Alkalinity, Total	**386**		5.0	0.79	mg/L			06/23/21 17:10	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/26/21 14:30	1
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Client Sample ID: 828109-GW-MW-3-062221

Lab Sample ID: 480-186377-4

Date Collected: 06/22/21 13:55
Matrix: Water
Date Received: 06/22/21 19:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/26/21 14:17	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/26/21 14:17	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/26/21 14:17	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/26/21 14:17	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/26/21 14:17	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/26/21 14:17	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/26/21 14:17	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/26/21 14:17	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/26/21 14:17	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/26/21 14:17	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/26/21 14:17	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/26/21 14:17	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/26/21 14:17	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/26/21 14:17	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/26/21 14:17	4
2-Hexanone	ND		20	5.0	ug/L			06/26/21 14:17	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/26/21 14:17	4
Acetone	ND		40	12	ug/L			06/26/21 14:17	4
Benzene	ND		4.0	1.6	ug/L			06/26/21 14:17	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/26/21 14:17	4
Bromoform	ND		4.0	1.0	ug/L			06/26/21 14:17	4
Bromomethane	ND		4.0	2.8	ug/L			06/26/21 14:17	4

Client Sample ID: 828109-GW-MW-3-062221
Date Collected: 06/22/21 13:55
Date Received: 06/22/21 19:15

Lab Sample ID: 480-186377-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		4.0	0.76	ug/L			06/26/21 14:17	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/26/21 14:17	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/26/21 14:17	4
Chloroethane	ND		4.0	1.3	ug/L			06/26/21 14:17	4
Chloroform	ND		4.0	1.4	ug/L			06/26/21 14:17	4
Chloromethane	ND		4.0	1.4	ug/L			06/26/21 14:17	4
cis-1,2-Dichloroethene	**150**		4.0	3.2	ug/L			06/26/21 14:17	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/26/21 14:17	4
Cyclohexane	ND		4.0	0.72	ug/L			06/26/21 14:17	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/26/21 14:17	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/26/21 14:17	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/26/21 14:17	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/26/21 14:17	4
Methyl acetate	ND		10	5.2	ug/L			06/26/21 14:17	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/26/21 14:17	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/26/21 14:17	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/26/21 14:17	4
Styrene	ND		4.0	2.9	ug/L			06/26/21 14:17	4
Tetrachloroethene	**1.5**	**J**	4.0	1.4	ug/L			06/26/21 14:17	4
Toluene	ND		4.0	2.0	ug/L			06/26/21 14:17	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/26/21 14:17	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/26/21 14:17	4
Trichloroethene	ND		4.0	1.8	ug/L			06/26/21 14:17	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/26/21 14:17	4
Vinyl chloride	**86**		4.0	3.6	ug/L			06/26/21 14:17	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/26/21 14:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/26/21 14:17*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/26/21 14:17*	*4*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/26/21 14:17*	*4*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/26/21 14:17*	*4*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		06/24/21 08:56	07/02/21 20:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*06/24/21 08:56*	*07/02/21 20:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**0.021**	**J**	0.050	0.020	mg/L			06/23/21 17:17	1
Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 17:17	1
Total Organic Carbon	**6.2**		1.0	0.43	mg/L			06/29/21 22:43	1
Nitrate as N	**0.021**	**J**	0.050	0.020	mg/L			06/23/21 17:17	1
Alkalinity, Total	**438**		5.0	0.79	mg/L			06/23/21 17:18	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/26/21 14:30	1
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: TB-02
Lab Sample ID: 480-186377-5
Date Collected: 06/22/21 00:00
Matrix: Water
Date Received: 06/22/21 19:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 14:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 14:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 14:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 14:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 14:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 14:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 14:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 14:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 14:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 14:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 14:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 14:40	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 14:40	1
Acetone	ND		10	3.0	ug/L			06/26/21 14:40	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 14:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 14:40	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 14:40	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 14:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 14:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 14:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 14:40	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 14:40	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 14:40	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 14:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 14:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 14:40	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 14:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 14:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 14:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 14:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 14:40	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 14:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 14:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 14:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 14:40	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 14:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 14:40	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 14:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 14:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 14:40	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 14:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 14:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 14:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 14:40	1

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: TB-02
Lab Sample ID: 480-186377-5
Date Collected: 06/22/21 00:00
Matrix: Water
Date Received: 06/22/21 19:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		06/26/21 14:40	1
4-Bromofluorobenzene (Surr)	90		73 - 120		06/26/21 14:40	1
Dibromofluoromethane (Surr)	101		75 - 123		06/26/21 14:40	1
Toluene-d8 (Surr)	91		80 - 120		06/26/21 14:40	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-186377-1	828109-GW-MW-6-062221	102	88	105	94
480-186377-2	828109-GW-MW-906-062221	102	100	104	96
480-186377-3	828109-GW-MW-5-062221	100	88	102	89
480-186377-4	828109-GW-MW-3-062221	101	98	103	96
480-186377-5	TB-02	99	90	101	91
LCS 480-587096/5	Lab Control Sample	94	90	97	94
MB 480-587096/7	Method Blank	102	96	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-186377-1	828109-GW-MW-6-062221	105	88	67	80	46	77
480-186377-2	828109-GW-MW-906-062221	85	92	70	82	48	68
LCS 480-587140/2-A	Lab Control Sample	116	101	81	101	63	110
MB 480-587140/1-A	Method Blank	103	110	81	100	56	120

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-186377-1	828109-GW-MW-6-062221	50	48	135 S1+	82
480-186377-2	828109-GW-MW-906-062221	57	55	142 S1+	75
LCS 480-586730/2-A	Lab Control Sample	42	49	79	67
MB 480-586730/1-A	Method Blank	50	58	87	70

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (19-120)	DCBP2 (19-120)	TCX1 (39-121)	TCX2 (39-121)
480-186377-1	828109-GW-MW-6-062221	80	91	84	81
480-186377-2	828109-GW-MW-906-062221	85	91	85	82
LCS 480-588012/2-A	Lab Control Sample	45	37	85	92
MB 480-588012/1-A	Method Blank	61	46	94	94

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(15-110)
480-186377-1	828109-GW-MW-6-062221	27
480-186377-2	828109-GW-MW-906-062221	28
480-186377-3	828109-GW-MW-5-062221	29
480-186377-4	828109-GW-MW-3-062221	33
LCS 480-586752/2-A	Lab Control Sample	31
MB 480-586752/1-A	Method Blank	31

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 480-587096/7
Matrix: Water
Analysis Batch: 587096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/26/21 10:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/26/21 10:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/26/21 10:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/26/21 10:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/26/21 10:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/26/21 10:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/26/21 10:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/26/21 10:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/26/21 10:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/26/21 10:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/26/21 10:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/26/21 10:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/26/21 10:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/26/21 10:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/26/21 10:46	1
2-Hexanone	ND		5.0	1.2	ug/L			06/26/21 10:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/26/21 10:46	1
Acetone	ND		10	3.0	ug/L			06/26/21 10:46	1
Benzene	ND		1.0	0.41	ug/L			06/26/21 10:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/26/21 10:46	1
Bromoform	ND		1.0	0.26	ug/L			06/26/21 10:46	1
Bromomethane	ND		1.0	0.69	ug/L			06/26/21 10:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/26/21 10:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/26/21 10:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/26/21 10:46	1
Chloroethane	ND		1.0	0.32	ug/L			06/26/21 10:46	1
Chloroform	ND		1.0	0.34	ug/L			06/26/21 10:46	1
Chloromethane	ND		1.0	0.35	ug/L			06/26/21 10:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/26/21 10:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/26/21 10:46	1
Cyclohexane	ND		1.0	0.18	ug/L			06/26/21 10:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/26/21 10:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/26/21 10:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/26/21 10:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/26/21 10:46	1
Methyl acetate	ND		2.5	1.3	ug/L			06/26/21 10:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/26/21 10:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/26/21 10:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/26/21 10:46	1
Styrene	ND		1.0	0.73	ug/L			06/26/21 10:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/26/21 10:46	1
Toluene	ND		1.0	0.51	ug/L			06/26/21 10:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/26/21 10:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/26/21 10:46	1
Trichloroethene	ND		1.0	0.46	ug/L			06/26/21 10:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/26/21 10:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/26/21 10:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/26/21 10:46	1

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

Lab Sample ID: MB 480-587096/7
Matrix: Water
Analysis Batch: 587096

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/26/21 10:46	1
4-Bromofluorobenzene (Surr)	96		73 - 120		06/26/21 10:46	1
Dibromofluoromethane (Surr)	102		75 - 123		06/26/21 10:46	1
Toluene-d8 (Surr)	95		80 - 120		06/26/21 10:46	1

Lab Sample ID: LCS 480-587096/5
Matrix: Water
Analysis Batch: 587096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3		ug/L		105	61 - 148
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	24.9		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.4		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	25.0	21.3		ug/L		85	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.6		ug/L		78	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	24.6		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 120
2-Butanone (MEK)	125	119		ug/L		95	57 - 140
2-Hexanone	125	121		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	24.6		ug/L		99	71 - 124
Bromodichloromethane	25.0	24.5		ug/L		98	80 - 122
Bromoform	25.0	23.9		ug/L		95	61 - 132
Bromomethane	25.0	25.2		ug/L		101	55 - 144
Carbon disulfide	25.0	24.5		ug/L		98	59 - 134
Carbon tetrachloride	25.0	25.3		ug/L		101	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Chloroethane	25.0	27.0		ug/L		108	69 - 136
Chloroform	25.0	23.6		ug/L		94	73 - 127
Chloromethane	25.0	22.2		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
Cyclohexane	25.0	22.9		ug/L		92	59 - 135
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
Isopropylbenzene	25.0	23.5		ug/L		94	77 - 122
Methyl acetate	50.0	44.2		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	22.6		ug/L		91	77 - 120
Methylcyclohexane	25.0	22.6		ug/L		90	68 - 134

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

Lab Sample ID: LCS 480-587096/5
Matrix: Water
Analysis Batch: 587096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	25.5		ug/L		102	62 - 150
Vinyl chloride	25.0	25.3		ug/L		101	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acenaphthene	ND		5.0	0.41	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 04:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 04:29	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 04:29	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 04:29	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 04:29	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Carbazole	ND		5.0	0.30	ug/L		06/27/21 09:30	07/02/21 04:29	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dibenzofuran	ND		10	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Di-n-butyl phthalate	18.8		5.0	0.31	ug/L		06/27/21 09:30	07/02/21 04:29	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
Fluorene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 04:29	1
Naphthalene	ND		5.0	0.76	ug/L		06/27/21 09:30	07/02/21 04:29	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 04:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 04:29	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Phenanthrene	ND		5.0	0.44	ug/L		06/27/21 09:30	07/02/21 04:29	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 04:29	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 04:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*41 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
2-Fluorobiphenyl	*110*		*48 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
2-Fluorophenol (Surr)	*81*		*35 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
Phenol-d5 (Surr)	*56*		*22 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
p-Terphenyl-d14 (Surr)	*120*		*60 - 148*	*06/27/21 09:30*	*07/02/21 04:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	32.4		ug/L		101	65 - 126
2,4,6-Trichlorophenol	32.0	32.2		ug/L		101	64 - 120
2,4-Dichlorophenol	32.0	32.4		ug/L		101	63 - 120
2,4-Dimethylphenol	32.0	31.2		ug/L		98	47 - 120
2,4-Dinitrophenol	64.0	70.9		ug/L		111	31 - 137
2,4-Dinitrotoluene	32.0	34.6		ug/L		108	69 - 120
2,6-Dinitrotoluene	32.0	33.9		ug/L		106	68 - 120
2-Chloronaphthalene	32.0	30.3		ug/L		95	58 - 120
2-Chlorophenol	32.0	32.3		ug/L		101	48 - 120
2-Methylnaphthalene	32.0	30.4		ug/L		95	59 - 120
2-Methylphenol	32.0	32.3		ug/L		101	39 - 120
2-Nitroaniline	32.0	32.2		ug/L		101	54 - 127
2-Nitrophenol	32.0	35.0		ug/L		109	52 - 125
3,3'-Dichlorobenzidine	64.0	54.9		ug/L		86	49 - 135
3-Nitroaniline	32.0	24.7		ug/L		77	51 - 120
4,6-Dinitro-2-methylphenol	64.0	76.0		ug/L		119	46 - 136
4-Bromophenyl phenyl ether	32.0	37.8		ug/L		118	65 - 120
4-Chloro-3-methylphenol	32.0	32.7		ug/L		102	61 - 123
4-Chloroaniline	32.0	19.2		ug/L		60	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.7		ug/L		102	62 - 120
4-Methylphenol	32.0	32.2		ug/L		101	29 - 131
4-Nitroaniline	32.0	29.2		ug/L		91	65 - 120
4-Nitrophenol	64.0	47.1		ug/L		74	45 - 120
Acenaphthene	32.0	32.3		ug/L		101	60 - 120
Acenaphthylene	32.0	34.2		ug/L		107	63 - 120
Acetophenone	32.0	33.4		ug/L		104	45 - 120
Anthracene	32.0	34.4		ug/L		108	67 - 120
Atrazine	64.0	73.1		ug/L		114	71 - 130
Benzaldehyde	64.0	64.5		ug/L		101	10 - 140
Benzo[a]anthracene	32.0	36.4		ug/L		114	70 - 121
Benzo[a]pyrene	32.0	32.7		ug/L		102	60 - 123
Benzo[b]fluoranthene	32.0	36.1		ug/L		113	66 - 126
Benzo[g,h,i]perylene	32.0	35.9		ug/L		112	66 - 150
Benzo[k]fluoranthene	32.0	34.6		ug/L		108	65 - 124
Biphenyl	32.0	31.3		ug/L		98	59 - 120
bis (2-chloroisopropyl) ether	32.0	31.0		ug/L		97	21 - 136
Bis(2-chloroethoxy)methane	32.0	33.5		ug/L		105	50 - 128
Bis(2-chloroethyl)ether	32.0	34.1		ug/L		107	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	36.9		ug/L		115	63 - 139
Butyl benzyl phthalate	32.0	36.4		ug/L		114	70 - 129
Caprolactam	64.0	25.8		ug/L		40	22 - 120
Carbazole	32.0	41.2	*+	ug/L		129	66 - 123
Chrysene	32.0	35.2		ug/L		110	69 - 120
Dibenz(a,h)anthracene	32.0	36.1		ug/L		113	65 - 135
Dibenzofuran	32.0	32.8		ug/L		102	66 - 120
Diethyl phthalate	32.0	34.7		ug/L		108	59 - 127
Dimethyl phthalate	32.0	33.9		ug/L		106	68 - 120
Di-n-butyl phthalate	32.0	45.5	*+	ug/L		142	69 - 131

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	32.0	37.5		ug/L		117	63 - 140
Fluoranthene	32.0	35.3		ug/L		110	69 - 126
Fluorene	32.0	33.8		ug/L		106	66 - 120
Hexachlorobenzene	32.0	34.5		ug/L		108	61 - 120
Hexachlorobutadiene	32.0	27.3		ug/L		85	35 - 120
Hexachlorocyclopentadiene	32.0	20.6		ug/L		64	31 - 120
Hexachloroethane	32.0	27.7		ug/L		86	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.1		ug/L		110	69 - 146
Isophorone	32.0	34.3		ug/L		107	55 - 120
Naphthalene	32.0	30.7		ug/L		96	57 - 120
Nitrobenzene	32.0	33.8		ug/L		105	53 - 123
N-Nitrosodi-n-propylamine	32.0	34.4		ug/L		107	32 - 140
N-Nitrosodiphenylamine	32.0	33.5		ug/L		105	61 - 120
Pentachlorophenol	64.0	72.7		ug/L		114	29 - 136
Phenanthrene	32.0	35.6		ug/L		111	68 - 120
Phenol	32.0	21.4		ug/L		67	17 - 120
Pyrene	32.0	35.4		ug/L		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*116*		*41 - 120*
2-Fluorobiphenyl	*101*		*48 - 120*
2-Fluorophenol (Surr)	*81*		*35 - 120*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*
Phenol-d5 (Surr)	*63*		*22 - 120*
p-Terphenyl-d14 (Surr)	*110*		*60 - 148*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-586752/1-A
Matrix: Water
Analysis Batch: 587818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/24/21 08:56	07/02/21 15:40	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/24/21 08:56*	*07/02/21 15:40*	*1*

Lab Sample ID: LCS 480-586752/2-A
Matrix: Water
Analysis Batch: 587818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.05		ug/L		105	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*31*		*15 - 110*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-586730/1-A
Matrix: Water
Analysis Batch: 586775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/24/21 06:56	06/24/21 12:43	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 12:43	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 12:43	1
Aldrin	ND		0.050	0.0081	ug/L		06/24/21 06:56	06/24/21 12:43	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/24/21 06:56	06/24/21 12:43	1
beta-BHC	ND		0.050	0.025	ug/L		06/24/21 06:56	06/24/21 12:43	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/24/21 06:56	06/24/21 12:43	1
delta-BHC	0.0138	J	0.050	0.010	ug/L		06/24/21 06:56	06/24/21 12:43	1
Dieldrin	ND		0.050	0.0098	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endosulfan I	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endosulfan II	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endrin	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endrin aldehyde	0.0305	J	0.050	0.016	ug/L		06/24/21 06:56	06/24/21 12:43	1
Endrin ketone	ND		0.050	0.012	ug/L		06/24/21 06:56	06/24/21 12:43	1
gamma-BHC (Lindane)	0.0138	J	0.050	0.0080	ug/L		06/24/21 06:56	06/24/21 12:43	1
Heptachlor	ND		0.050	0.0085	ug/L		06/24/21 06:56	06/24/21 12:43	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/24/21 06:56	06/24/21 12:43	1
Methoxychlor	ND		0.050	0.014	ug/L		06/24/21 06:56	06/24/21 12:43	1
Toxaphene	ND		0.50	0.12	ug/L		06/24/21 06:56	06/24/21 12:43	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/24/21 06:56	06/24/21 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*20 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*
Tetrachloro-m-xylene	*87*		*44 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*
Tetrachloro-m-xylene	*70*		*44 - 120*	*06/24/21 06:56*	*06/24/21 12:43*	*1*

Lab Sample ID: LCS 480-586730/2-A
Matrix: Water
Analysis Batch: 586775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.385		ug/L		96	64 - 129
4,4'-DDE	0.400	0.300		ug/L		75	50 - 120
4,4'-DDT	0.400	0.387		ug/L		97	59 - 120
Aldrin	0.400	0.238		ug/L		60	40 - 125
alpha-BHC	0.400	0.293		ug/L		73	52 - 125
beta-BHC	0.400	0.346		ug/L		86	51 - 120
cis-Chlordane	0.400	0.277		ug/L		69	52 - 120
delta-BHC	0.400	0.320		ug/L		80	51 - 120
Dieldrin	0.400	0.390		ug/L		97	66 - 128
Endosulfan I	0.400	0.293		ug/L		73	57 - 120
Endosulfan II	0.400	0.386		ug/L		97	66 - 131
Endosulfan sulfate	0.400	0.368		ug/L		92	66 - 136
Endrin	0.400	0.397		ug/L		99	65 - 135
Endrin aldehyde	0.400	0.388		ug/L		97	61 - 134
Endrin ketone	0.400	0.380		ug/L		95	71 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-586730/2-A
Matrix: Water
Analysis Batch: 586775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	0.400	0.327		ug/L		82	56 - 120
Heptachlor	0.400	0.321		ug/L		80	58 - 120
Heptachlor epoxide	0.400	0.352		ug/L		88	65 - 125
Methoxychlor	0.400	0.376		ug/L		94	50 - 150
trans-Chlordane	0.400	0.310		ug/L		77	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*42*		*20 - 120*
DCB Decachlorobiphenyl	*49*		*20 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*
Tetrachloro-m-xylene	*67*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-588012/1-A
Matrix: Water
Analysis Batch: 588030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/03/21 08:36	07/05/21 21:07	1
PCB-1221	ND		0.50	0.18	ug/L		07/03/21 08:36	07/05/21 21:07	1
PCB-1232	ND		0.50	0.18	ug/L		07/03/21 08:36	07/05/21 21:07	1
PCB-1242	ND		0.50	0.18	ug/L		07/03/21 08:36	07/05/21 21:07	1
PCB-1248	ND		0.50	0.18	ug/L		07/03/21 08:36	07/05/21 21:07	1
PCB-1254	ND		0.50	0.25	ug/L		07/03/21 08:36	07/05/21 21:07	1
PCB-1260	ND		0.50	0.25	ug/L		07/03/21 08:36	07/05/21 21:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*19 - 120*	*07/03/21 08:36*	*07/05/21 21:07*	*1*
DCB Decachlorobiphenyl	*61*		*19 - 120*	*07/03/21 08:36*	*07/05/21 21:07*	*1*
Tetrachloro-m-xylene	*94*		*39 - 121*	*07/03/21 08:36*	*07/05/21 21:07*	*1*
Tetrachloro-m-xylene	*94*		*39 - 121*	*07/03/21 08:36*	*07/05/21 21:07*	*1*

Lab Sample ID: LCS 480-588012/2-A
Matrix: Water
Analysis Batch: 588030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	4.59		ug/L		115	62 - 130
PCB-1260	4.00	4.00		ug/L		100	56 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*37*		*19 - 120*
DCB Decachlorobiphenyl	*45*		*19 - 120*
Tetrachloro-m-xylene	*92*		*39 - 121*
Tetrachloro-m-xylene	*85*		*39 - 121*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-586695/1-A
Matrix: Water
Analysis Batch: 586999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/23/21 16:46	06/24/21 18:41	1
Antimony	ND		0.020	0.0068	mg/L		06/23/21 16:46	06/24/21 18:41	1
Arsenic	ND		0.015	0.0056	mg/L		06/23/21 16:46	06/24/21 18:41	1
Barium	ND	^6+	0.0020	0.00070	mg/L		06/23/21 16:46	06/24/21 18:41	1
Beryllium	ND		0.0020	0.00030	mg/L		06/23/21 16:46	06/24/21 18:41	1
Cadmium	ND		0.0020	0.00050	mg/L		06/23/21 16:46	06/24/21 18:41	1
Calcium	0.131	J	0.50	0.10	mg/L		06/23/21 16:46	06/24/21 18:41	1
Chromium	ND		0.0040	0.0010	mg/L		06/23/21 16:46	06/24/21 18:41	1
Cobalt	ND		0.0040	0.00063	mg/L		06/23/21 16:46	06/24/21 18:41	1
Copper	ND		0.010	0.0016	mg/L		06/23/21 16:46	06/24/21 18:41	1
Iron	ND		0.050	0.019	mg/L		06/23/21 16:46	06/24/21 18:41	1
Lead	ND		0.010	0.0030	mg/L		06/23/21 16:46	06/24/21 18:41	1
Magnesium	ND		0.20	0.043	mg/L		06/23/21 16:46	06/24/21 18:41	1
Manganese	0.000630	J	0.0030	0.00040	mg/L		06/23/21 16:46	06/24/21 18:41	1
Nickel	ND		0.010	0.0013	mg/L		06/23/21 16:46	06/24/21 18:41	1
Selenium	ND		0.025	0.0087	mg/L		06/23/21 16:46	06/24/21 18:41	1
Silver	ND		0.0060	0.0017	mg/L		06/23/21 16:46	06/24/21 18:41	1
Thallium	ND		0.020	0.010	mg/L		06/23/21 16:46	06/24/21 18:41	1
Vanadium	ND		0.0050	0.0015	mg/L		06/23/21 16:46	06/24/21 18:41	1
Zinc	ND		0.010	0.0015	mg/L		06/23/21 16:46	06/24/21 18:41	1

Lab Sample ID: MB 480-586695/1-A
Matrix: Water
Analysis Batch: 587198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		06/23/21 16:46	06/25/21 15:13	1
Sodium	ND		1.0	0.32	mg/L		06/23/21 16:46	06/25/21 15:13	1

Lab Sample ID: LCS 480-586695/2-A
Matrix: Water
Analysis Batch: 586999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.27		mg/L		103	80 - 120
Antimony	0.200	0.218		mg/L		109	80 - 120
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.221	^6+	mg/L		111	80 - 120
Beryllium	0.200	0.212		mg/L		106	80 - 120
Cadmium	0.200	0.204		mg/L		102	80 - 120
Calcium	10.0	10.24		mg/L		102	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.200	0.195		mg/L		97	80 - 120
Copper	0.200	0.201		mg/L		101	80 - 120
Iron	10.0	9.91		mg/L		99	80 - 120
Lead	0.200	0.200		mg/L		100	80 - 120
Magnesium	10.0	10.12		mg/L		101	80 - 120
Manganese	0.200	0.209		mg/L		104	80 - 120
Nickel	0.200	0.196		mg/L		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-586695/2-A
Matrix: Water
Analysis Batch: 586999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.22		mg/L		102	80 - 120
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120
Thallium	0.200	0.209		mg/L		105	80 - 120
Vanadium	0.200	0.201		mg/L		100	80 - 120
Zinc	0.200	0.200		mg/L		100	80 - 120

Lab Sample ID: LCS 480-586695/2-A
Matrix: Water
Analysis Batch: 587198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	10.0	10.64		mg/L		106	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-586713/27
Matrix: Water
Analysis Batch: 586713

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 20:37	1

Lab Sample ID: MB 480-586713/3
Matrix: Water
Analysis Batch: 586713

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 20:10	1

Lab Sample ID: LCS 480-586713/28
Matrix: Water
Analysis Batch: 586713

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Lab Sample ID: LCS 480-586713/4
Matrix: Water
Analysis Batch: 586713

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-586706/100
Matrix: Water
Analysis Batch: 586706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0219	J	0.050	0.020	mg/L			06/23/21 18:58	1

Lab Sample ID: MB 480-586706/124
Matrix: Water
Analysis Batch: 586706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0248	J	0.050	0.020	mg/L			06/23/21 19:25	1

Lab Sample ID: MB 480-586706/28
Matrix: Water
Analysis Batch: 586706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 17:35	1

Lab Sample ID: MB 480-586706/4
Matrix: Water
Analysis Batch: 586706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/23/21 17:08	1

Lab Sample ID: LCS 480-586706/101
Matrix: Water
Analysis Batch: 586706

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.50	1.49		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-586706/125
Matrix: Water
Analysis Batch: 586706

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.50	1.51		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-586706/29
Matrix: Water
Analysis Batch: 586706

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.50	1.50		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-586706/5
Matrix: Water
Analysis Batch: 586706

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.50	1.53		mg/L		102	90 - 110		

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-587790/4
Matrix: Water
Analysis Batch: 587790

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/29/21 18:56	1

Lab Sample ID: LCS 480-587790/5
Matrix: Water
Analysis Batch: 587790

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.32		mg/L		101	90 - 110

Lab Sample ID: 480-186377-2 MS
Matrix: Water
Analysis Batch: 587790

Client Sample ID: 828109-GW-MW-906-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	9.8		23.3	36.23		mg/L		114	54 - 131

Lab Sample ID: 480-186377-3 DU
Matrix: Water
Analysis Batch: 587790

Client Sample ID: 828109-GW-MW-5-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.6		2.53		mg/L		3	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-586738/4
Matrix: Water
Analysis Batch: 586738

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			06/23/21 15:28	1

Lab Sample ID: LCS 480-586738/5
Matrix: Water
Analysis Batch: 586738

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.68		mg/L		100	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-587134/27
Matrix: Water
Analysis Batch: 587134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/26/21 14:30	1

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: MB 480-587134/3
Matrix: Water
Analysis Batch: 587134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/26/21 14:30	1

Lab Sample ID: LCS 480-587134/28
Matrix: Water
Analysis Batch: 587134

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	2.02		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-587134/4
Matrix: Water
Analysis Batch: 587134

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	2.03		mg/L		102	90 - 110		

Lab Sample ID: 480-186377-2 MS
Matrix: Water
Analysis Batch: 587134

Client Sample ID: 828109-GW-MW-906-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	ND	HF	1.00	1.05		mg/L		105	70 - 130		

Lab Sample ID: 480-186377-1 DU
Matrix: Water
Analysis Batch: 587134

Client Sample ID: 828109-GW-MW-6-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-186377-2 DU
Matrix: Water
Analysis Batch: 587134

Client Sample ID: 828109-GW-MW-906-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-186377-3 DU
Matrix: Water
Analysis Batch: 587134

Client Sample ID: 828109-GW-MW-5-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Lab Sample ID: 480-186377-4 DU
Matrix: Water
Analysis Batch: 587134

Client Sample ID: 828109-GW-MW-3-062221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

QC Sample Results

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-587623/3
Matrix: Water
Analysis Batch: 587623

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Lab Sample ID: LCS 480-587623/4
Matrix: Water
Analysis Batch: 587623

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			7.80	8.00		mg/L		103	90 - 110		

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

GC/MS VOA

Analysis Batch: 587096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	8260C	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	8260C	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	8260C	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	8260C	
480-186377-5	TB-02	Total/NA	Water	8260C	
MB 480-587096/7	Method Blank	Total/NA	Water	8260C	
LCS 480-587096/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 586752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	3510C	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	3510C	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	3510C	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	3510C	
MB 480-586752/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-586752/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 587140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	3510C	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	3510C	
MB 480-587140/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-587140/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 587795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	8270D	587140
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	8270D	587140
MB 480-587140/1-A	Method Blank	Total/NA	Water	8270D	587140
LCS 480-587140/2-A	Lab Control Sample	Total/NA	Water	8270D	587140

Analysis Batch: 587818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	8270D SIM ID	586752
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	8270D SIM ID	586752
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	8270D SIM ID	586752
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	8270D SIM ID	586752
MB 480-586752/1-A	Method Blank	Total/NA	Water	8270D SIM ID	586752
LCS 480-586752/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	586752

GC Semi VOA

Prep Batch: 586730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	3510C	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	3510C	
MB 480-586730/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-586730/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA

Analysis Batch: 586775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	8081B	586730
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	8081B	586730
MB 480-586730/1-A	Method Blank	Total/NA	Water	8081B	586730
LCS 480-586730/2-A	Lab Control Sample	Total/NA	Water	8081B	586730

Prep Batch: 588012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	3510C	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	3510C	
MB 480-588012/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-588012/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 588030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-588012/1-A	Method Blank	Total/NA	Water	8082A	588012
LCS 480-588012/2-A	Lab Control Sample	Total/NA	Water	8082A	588012

Analysis Batch: 588117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	8082A	588012
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	8082A	588012

Metals

Prep Batch: 586695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	3005A	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	3005A	
MB 480-586695/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-586695/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 586999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	6010C	586695
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	6010C	586695
MB 480-586695/1-A	Method Blank	Total/NA	Water	6010C	586695
LCS 480-586695/2-A	Lab Control Sample	Total/NA	Water	6010C	586695

Analysis Batch: 587198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-586695/1-A	Method Blank	Total/NA	Water	6010C	586695
LCS 480-586695/2-A	Lab Control Sample	Total/NA	Water	6010C	586695

General Chemistry

Analysis Batch: 586706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	353.2	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	353.2	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	353.2	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	353.2	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 586706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	353.2	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	353.2	
MB 480-586706/100	Method Blank	Total/NA	Water	353.2	
MB 480-586706/124	Method Blank	Total/NA	Water	353.2	
MB 480-586706/28	Method Blank	Total/NA	Water	353.2	
MB 480-586706/4	Method Blank	Total/NA	Water	353.2	
LCS 480-586706/101	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-586706/125	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-586706/29	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-586706/5	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 586713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	353.2	
MB 480-586713/27	Method Blank	Total/NA	Water	353.2	
MB 480-586713/3	Method Blank	Total/NA	Water	353.2	
LCS 480-586713/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-586713/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 586720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	Nitrate by calc	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	Nitrate by calc	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	Nitrate by calc	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	Nitrate by calc	

Analysis Batch: 586721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	353.2	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	353.2	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	353.2	

Analysis Batch: 586738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	SM 2320B	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	SM 2320B	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	SM 2320B	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	SM 2320B	
MB 480-586738/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-586738/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 587134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	SM 3500 FE D	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	SM 3500 FE D	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	SM 3500 FE D	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	SM 3500 FE D	
MB 480-587134/27	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 480-587134/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-587134/28	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 480-587134/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 587134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-2 MS	828109-GW-MW-906-062221	Total/NA	Water	SM 3500 FE D	
480-186377-1 DU	828109-GW-MW-6-062221	Total/NA	Water	SM 3500 FE D	
480-186377-2 DU	828109-GW-MW-906-062221	Total/NA	Water	SM 3500 FE D	
480-186377-3 DU	828109-GW-MW-5-062221	Total/NA	Water	SM 3500 FE D	
480-186377-4 DU	828109-GW-MW-3-062221	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 587623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	SM 4500 S2 F	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	SM 4500 S2 F	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	SM 4500 S2 F	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	SM 4500 S2 F	
MB 480-587623/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-587623/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 587790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186377-1	828109-GW-MW-6-062221	Total/NA	Water	9060A	
480-186377-2	828109-GW-MW-906-062221	Total/NA	Water	9060A	
480-186377-3	828109-GW-MW-5-062221	Total/NA	Water	9060A	
480-186377-4	828109-GW-MW-3-062221	Total/NA	Water	9060A	
MB 480-587790/4	Method Blank	Total/NA	Water	9060A	
LCS 480-587790/5	Lab Control Sample	Total/NA	Water	9060A	
480-186377-2 MS	828109-GW-MW-906-062221	Total/NA	Water	9060A	
480-186377-3 DU	828109-GW-MW-5-062221	Total/NA	Water	9060A	

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-GW-MW-6-062221
Lab Sample ID: 480-186377-1
Date Collected: 06/22/21 09:05
Matrix: Water
Date Received: 06/22/21 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	587096	06/26/21 13:11	AXK	TAL BUF
Total/NA	Prep	3510C			587140	06/27/21 09:30	JMP	TAL BUF
Total/NA	Analysis	8270D		1	587795	07/02/21 08:24	PJQ	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 18:49	RJS	TAL BUF
Total/NA	Prep	3510C			586730	06/24/21 06:56	SMP	TAL BUF
Total/NA	Analysis	8081B		1	586775	06/24/21 19:14	JLS	TAL BUF
Total/NA	Prep	3510C			588012	07/03/21 08:36	JMP	TAL BUF
Total/NA	Analysis	8082A		1	588117	07/06/21 15:03	W1T	TAL BUF
Total/NA	Prep	3005A			586695	06/23/21 16:46	ADM	TAL BUF
Total/NA	Analysis	6010C		1	586999	06/24/21 20:41	LMH	TAL BUF
Total/NA	Analysis	353.2		1	586706	06/23/21 17:14	CSS	TAL BUF
Total/NA	Analysis	353.2		1	586721	06/23/21 17:14	CSS	TAL BUF
Total/NA	Analysis	9060A		1	587790	06/29/21 19:52	CLA	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586720	06/23/21 17:14	CSS	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 16:42	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	587134	06/26/21 14:30	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587623	06/29/21 16:45	SRA	TAL BUF

Client Sample ID: 828109-GW-MW-906-062221
Lab Sample ID: 480-186377-2
Date Collected: 06/22/21 09:10
Matrix: Water
Date Received: 06/22/21 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	587096	06/26/21 13:33	AXK	TAL BUF
Total/NA	Prep	3510C			587140	06/27/21 09:30	JMP	TAL BUF
Total/NA	Analysis	8270D		1	587795	07/02/21 08:50	PJQ	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 19:13	RJS	TAL BUF
Total/NA	Prep	3510C			586730	06/24/21 06:56	SMP	TAL BUF
Total/NA	Analysis	8081B		1	586775	06/24/21 19:33	JLS	TAL BUF
Total/NA	Prep	3510C			588012	07/03/21 08:36	JMP	TAL BUF
Total/NA	Analysis	8082A		1	588117	07/06/21 15:16	W1T	TAL BUF
Total/NA	Prep	3005A			586695	06/23/21 16:46	ADM	TAL BUF
Total/NA	Analysis	6010C		1	586999	06/24/21 20:44	LMH	TAL BUF
Total/NA	Analysis	353.2		1	586706	06/23/21 17:15	CSS	TAL BUF
Total/NA	Analysis	353.2		1	586721	06/23/21 17:15	CSS	TAL BUF
Total/NA	Analysis	9060A		1	587790	06/29/21 20:49	CLA	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586720	06/23/21 17:15	CSS	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 17:03	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	587134	06/26/21 14:30	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587623	06/29/21 16:45	SRA	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: 828109-GW-MW-5-062221
Lab Sample ID: 480-186377-3

Date Collected: 06/22/21 12:15
Matrix: Water
Date Received: 06/22/21 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	587096	06/26/21 13:55	AXK	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 19:36	RJS	TAL BUF
Total/NA	Analysis	353.2		2	586706	06/23/21 19:08	CSS	TAL BUF
Total/NA	Analysis	353.2		2	586706	06/23/21 19:11	CSS	TAL BUF
Total/NA	Analysis	353.2		5	586706	06/23/21 19:32	CSS	TAL BUF
Total/NA	Analysis	353.2		5	586706	06/23/21 19:33	CSS	TAL BUF
Total/NA	Analysis	353.2		1	586713	06/23/21 20:17	CSS	TAL BUF
Total/NA	Analysis	9060A		1	587790	06/29/21 21:46	CLA	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586720	06/23/21 17:16	CSS	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 17:10	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	587134	06/26/21 14:30	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587623	06/29/21 16:45	SRA	TAL BUF

Client Sample ID: 828109-GW-MW-3-062221
Lab Sample ID: 480-186377-4

Date Collected: 06/22/21 13:55
Matrix: Water
Date Received: 06/22/21 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	587096	06/26/21 14:17	AXK	TAL BUF
Total/NA	Prep	3510C			586752	06/24/21 08:56	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587818	07/02/21 20:00	RJS	TAL BUF
Total/NA	Analysis	353.2		1	586706	06/23/21 17:17	CSS	TAL BUF
Total/NA	Analysis	353.2		1	586721	06/23/21 17:17	CSS	TAL BUF
Total/NA	Analysis	9060A		1	587790	06/29/21 22:43	CLA	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586720	06/23/21 17:17	CSS	TAL BUF
Total/NA	Analysis	SM 2320B		1	586738	06/23/21 17:18	JPS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	587134	06/26/21 14:30	CSS	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587623	06/29/21 16:45	SRA	TAL BUF

Client Sample ID: TB-02
Lab Sample ID: 480-186377-5

Date Collected: 06/22/21 00:00
Matrix: Water
Date Received: 06/22/21 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587096	06/26/21 14:40	AXK	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-186377-1
Project/Site: Speedy's Cleaners #828109

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	08-02-21

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

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186377-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-186377-1	828109-GW-MW-6-062221	Water	06/22/21 09:05	06/22/21 19:15
480-186377-2	828109-GW-MW-906-062221	Water	06/22/21 09:10	06/22/21 19:15
480-186377-3	828109-GW-MW-5-062221	Water	06/22/21 12:15	06/22/21 19:15
480-186377-4	828109-GW-MW-3-062221	Water	06/22/21 13:55	06/22/21 19:15
480-186377-5	TB-02	Water	06/22/21 00:00	06/22/21 19:15

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: CDM Smith	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-162178-35622.2
Client Contact: Charles Gregory	Phone: 518-698-5448	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: New York State D.E.C.	PWSID:	Analysis Requested		Job #:
Address: 625 Broadway Division of Environmental Remediation	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Albany	TAT Requested (days):			
State, Zip: NY, 12233-7014	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID 140047			Other:
Email: charles.gregory@dec.ny.gov	WO #:			
Project Name: Speedy's Cleaners #828109	Project #: 48023897			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4-Dioxane	SM4500_S2_F - Sulfide, Total	353.2_Nitrite, D516, Nitrate_Calc, SM4500_Cl_E	2320B - Alkalinity	3500_FE_D - Ferrous Iron	PFC_IDA - PFAS, Standard List (21 analytes)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	CB	N	N	N	N	N	N	N	D		
828109-GW-MW-6-062221	6/22/21	905	G	Water			X	X	X	X	X	X	X	[illegible]	X	X	X	X	[illegible]	
828109-GW-MW-906-062221	6/22/21	910	G	Water			X	X	X	X	X	X	X	[illegible]	X	X	X	X	[illegible]	
828109-GW-MW-5-062221	6/22/21	1215	G	Water			X	X	X	X	X	X	X						12	
828109-GW-MW-3-062221	6/22/21	1355	G	Water			X	X	X	X	X	X	X						12	
TB-02	—	—	—	Water			X												1	TRIP BLANK
				Water																
				Water																

6/22/21

480-186377 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	6/22/21 1915	CDM Smith	[signature]	6.22.21 19:15	TA/Eurofins
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 ICE

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-186377-1

Login Number: 186377 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	cdm
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-186439-1
Client Project/Site: Speedy's Cleaners #828109
Revision: 1

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Authorized for release by:
9/21/2021 11:55:41 AM
Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

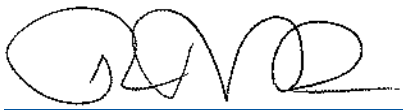
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Ryan VanDette
Project Manager II
9/21/2021 11:55:41 AM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 8
Client Sample Results 10
Surrogate Summary 21
Isotope Dilution Summary 23
QC Sample Results 25
QC Association Summary 45
Lab Chronicle 49
Certification Summary 51
Method Summary 52
Sample Summary 53
Chain of Custody 54
Receipt Checklists 57

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-186439-1
Project/Site: Speedy's Cleaners #828109

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-186439-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-186439-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 7/9/2021. The report (revision 1) is being revised to include spike amounts.

Receipt
The samples were received on 6/24/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 282109-MW-2B-062321 (480-186439-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-587278 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 282109-MW-2B-062321 (480-186439-1) and EB-01 (480-186439-5).

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

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 480-587795 recovered above the upper control limit for Carbazole. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: EB-01 (480-186439-5).

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-587140 and analytical batch 480-587795 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The Method Blank for preparation batch 480-587140 and analytical batch 480-587795 contained Di-n-butyl phthalate above the reporting limit. The Laboratory Control Sample for preparation batch 480-587140 and analytical batch 480-587795 recovered above the upper control limit for Di-n-butyl phthalate. The laboratory suspects the cause to be systemic contamination present in all extracts. The following samples are impacted: EB-01 (480-186439-5). The results have been qualified and reported.

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

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. EB-01 (480-186439-5), (LCS 480-586928/2-A) and (MB 480-586928/1-A)

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

LCMS
Method 537 (modified): The laboratory control sample (LCS) associated with preparation batch 200-168535 and analytical batch 200-168576 was above acceptance criteria for Perfluoroundecanoic acid (PFUnA). The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Job ID: 480-186439-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

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

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 282109-MW-2B-062321 (480-186439-1) and EB-01 (480-186439-5).

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

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: 282109-MW-2B-062321 — Lab Sample ID: 480-186439-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.9		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Total Organic Carbon	26.2		1.0	0.43	mg/L	1		9060A	Total/NA
Sulfate	19.2		5.0	1.5	mg/L	1		D516-90, 02	Total/NA
Alkalinity, Total	692		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Ferrous Iron	0.52	HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Chloride	787		20.0	9.2	mg/L	20		SM 4500 Cl- E	Total/NA

Client Sample ID: 282109-MW-6-062221 — Lab Sample ID: 480-186439-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	15		1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	34		1.8	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.5	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.9		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29		1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	43		4.4	0.79	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	46		1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	21		1.8	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.37	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.44	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 282109-MW-906-062221 — Lab Sample ID: 480-186439-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	15		1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	35		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.6	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.7		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	30		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	42		4.3	0.76	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	49		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	20		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.41	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.45	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA

Client Sample ID: 282109-MW-2-062121 — Lab Sample ID: 480-186439-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	2.5		1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.0		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8		1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.0		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	9.0		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.4	J	4.3	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.5		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.8		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.2	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: EB-01

Lab Sample ID: 480-186439-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.1		1.0	0.44	ug/L	1		8260C	Total/NA
Di-n-butyl phthalate	40	B *+	5.0	0.31	ug/L	1		8270D	Total/NA
gamma-BHC (Lindane)	0.014	J B	0.050	0.0080	ug/L	1		8081B	Total/NA
Potassium	0.13	J B	0.50	0.10	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: 282109-MW-2B-062321
Date Collected: 06/23/21 10:00
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/29/21 05:00	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/29/21 05:00	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/29/21 05:00	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/29/21 05:00	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/29/21 05:00	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/29/21 05:00	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/29/21 05:00	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/29/21 05:00	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/29/21 05:00	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/29/21 05:00	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/29/21 05:00	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/29/21 05:00	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/29/21 05:00	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/29/21 05:00	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/29/21 05:00	4
2-Hexanone	ND		20	5.0	ug/L			06/29/21 05:00	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/29/21 05:00	4
Acetone	ND		40	12	ug/L			06/29/21 05:00	4
Benzene	ND		4.0	1.6	ug/L			06/29/21 05:00	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/29/21 05:00	4
Bromoform	ND		4.0	1.0	ug/L			06/29/21 05:00	4
Bromomethane	ND		4.0	2.8	ug/L			06/29/21 05:00	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/29/21 05:00	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/29/21 05:00	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/29/21 05:00	4
Chloroethane	ND		4.0	1.3	ug/L			06/29/21 05:00	4
Chloroform	ND		4.0	1.4	ug/L			06/29/21 05:00	4
Chloromethane	ND		4.0	1.4	ug/L			06/29/21 05:00	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/29/21 05:00	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/29/21 05:00	4
Cyclohexane	ND		4.0	0.72	ug/L			06/29/21 05:00	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/29/21 05:00	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/29/21 05:00	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/29/21 05:00	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/29/21 05:00	4
Methyl acetate	ND		10	5.2	ug/L			06/29/21 05:00	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/29/21 05:00	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/29/21 05:00	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/29/21 05:00	4
Styrene	ND		4.0	2.9	ug/L			06/29/21 05:00	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/29/21 05:00	4
Toluene	ND		4.0	2.0	ug/L			06/29/21 05:00	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/29/21 05:00	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/29/21 05:00	4
Trichloroethene	ND		4.0	1.8	ug/L			06/29/21 05:00	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/29/21 05:00	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/29/21 05:00	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/29/21 05:00	4

Client Sample ID: 282109-MW-2B-062321

Lab Sample ID: 480-186439-1

Date Collected: 06/23/21 10:00

Matrix: Water

Date Received: 06/24/21 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*06/29/21 05:00*	*4*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/29/21 05:00*	*4*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*06/29/21 05:00*	*4*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/29/21 05:00*	*4*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.9**		0.20	0.10	ug/L		06/25/21 08:43	07/03/21 00:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/25/21 08:43*	*07/03/21 00:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/24/21 17:30	1
Nitrite as N	ND		0.050	0.020	mg/L			06/24/21 17:30	1
Total Organic Carbon	**26.2**		1.0	0.43	mg/L			06/30/21 13:59	1
Sulfate	**19.2**		5.0	1.5	mg/L			06/25/21 19:12	1
Nitrate as N	ND		0.050	0.020	mg/L			06/24/21 17:30	1
Alkalinity, Total	**692**		5.0	0.79	mg/L			06/28/21 12:16	1
Ferrous Iron	**0.52**	**HF**	0.10	0.075	mg/L			06/26/21 14:30	1
Chloride	**787**		20.0	9.2	mg/L			06/25/21 17:56	20
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Client Sample ID: 282109-MW-6-062221

Lab Sample ID: 480-186439-2

Date Collected: 06/22/21 09:05

Matrix: Water

Date Received: 06/24/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**15**		1.8	0.21	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorooctanoic acid (PFOA)	**34**		1.8	0.38	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorononanoic acid (PFNA)	**1.5**	**J**	1.8	0.25	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorobutanesulfonic acid (PFBS)	**4.4**		1.8	0.22	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorohexanesulfonic acid (PFHxS)	**5.9**		1.8	0.27	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorooctanesulfonic acid (PFOS)	**29**		1.8	0.26	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorobutanoic acid (PFBA)	**43**		4.4	0.79	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluoropentanoic acid (PFPeA)	**46**		1.8	0.42	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorohexanoic acid (PFHxA)	**21**		1.8	0.40	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluoroundecanoic acid (PFUnA)	ND	*+	1.8	0.31	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorodecanoic acid (PFDA)	**0.37**	**J**	1.8	0.27	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.56	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.51	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.27	ng/L		06/29/21 10:16	06/29/21 19:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.44**	**J**	1.8	0.21	ng/L		06/29/21 10:16	06/29/21 19:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.80	ng/L		06/29/21 10:16	06/29/21 19:41	1

Client Sample ID: 282109-MW-6-062221

Lab Sample ID: 480-186439-2
Date Collected: 06/22/21 09:05
Matrix: Water
Date Received: 06/24/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.66	ng/L		06/29/21 10:16	06/29/21 19:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.97	ng/L		06/29/21 10:16	06/29/21 19:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.35	ng/L		06/29/21 10:16	06/29/21 19:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*86*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C4 PFHpA	*92*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C4 PFOA	*100*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C4 PFOS	*87*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C5 PFNA	*101*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C4 PFBA	*56*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C2 PFHxA	*88*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C2 PFDA	*99*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C2 PFUnA	*97*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C2 PFDoA	*83*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C8 FOSA	*69*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C5 PFPeA	*83*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
d3-NMeFOSAA	*95*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
d5-NEtFOSAA	*92*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
M2-6:2 FTS	*114*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
M2-8:2 FTS	*111*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*
13C3 PFBS	*85*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:41*	*1*

Client Sample ID: 282109-MW-906-062221

Lab Sample ID: 480-186439-3
Date Collected: 06/22/21 09:10
Matrix: Water
Date Received: 06/24/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**15**		1.7	0.20	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorooctanoic acid (PFOA)	**35**		1.7	0.36	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorononanoic acid (PFNA)	**1.6**	**J**	1.7	0.24	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorobutanesulfonic acid (PFBS)	**3.7**		1.7	0.21	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorohexanesulfonic acid (PFHxS)	**5.7**		1.7	0.26	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorooctanesulfonic acid (PFOS)	**30**		1.7	0.25	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorobutanoic acid (PFBA)	**42**		4.3	0.76	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluoropentanoic acid (PFPeA)	**49**		1.7	0.40	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorohexanoic acid (PFHxA)	**20**		1.7	0.38	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluoroundecanoic acid (PFUnA)	ND	*+	1.7	0.29	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorodecanoic acid (PFDA)	**0.41**	**J**	1.7	0.26	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		06/29/21 10:16	06/29/21 19:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		06/29/21 10:16	06/29/21 19:49	1

Client Sample ID: 282109-MW-906-062221

Lab Sample ID: 480-186439-3

Date Collected: 06/22/21 09:10

Matrix: Water

Date Received: 06/24/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	**0.45**	**J**	1.7	0.20	ng/L		06/29/21 10:16	06/29/21 19:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.77	ng/L		06/29/21 10:16	06/29/21 19:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.63	ng/L		06/29/21 10:16	06/29/21 19:49	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.93	ng/L		06/29/21 10:16	06/29/21 19:49	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33	ng/L		06/29/21 10:16	06/29/21 19:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*85*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C4 PFHpA	*92*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C4 PFOA	*98*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C4 PFOS	*86*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C5 PFNA	*103*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C4 PFBA	*56*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C2 PFHxA	*87*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C2 PFDA	*104*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C2 PFUnA	*98*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C2 PFDoA	*93*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C8 FOSA	*64*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C5 PFPeA	*81*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C2 PFTeDA	*88*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
d3-NMeFOSAA	*92*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
d5-NEtFOSAA	*99*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
M2-6:2 FTS	*122*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
M2-8:2 FTS	*109*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*
13C3 PFBS	*85*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:49*	*1*

Client Sample ID: 282109-MW-2-062121

Lab Sample ID: 480-186439-4

Date Collected: 06/21/21 14:30

Matrix: Water

Date Received: 06/24/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**2.5**		1.7	0.20	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorooctanoic acid (PFOA)	**5.0**		1.7	0.36	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorononanoic acid (PFNA)	**1.8**		1.7	0.24	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorobutanesulfonic acid (PFBS)	**1.9**		1.7	0.21	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorohexanesulfonic acid (PFHxS)	**2.0**		1.7	0.26	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorooctanesulfonic acid (PFOS)	**9.0**		1.7	0.25	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorobutanoic acid (PFBA)	**3.4**	**J**	4.3	0.77	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluoropentanoic acid (PFPeA)	**3.5**		1.7	0.41	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorohexanoic acid (PFHxA)	**2.8**		1.7	0.39	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluoroundecanoic acid (PFUnA)	ND	*+	1.7	0.30	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorodecanoic acid (PFDA)	**1.2**	**J**	1.7	0.26	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		06/29/21 10:16	06/29/21 19:57	1

Client Sample ID: 282109-MW-2-062121
Lab Sample ID: 480-186439-4
Date Collected: 06/21/21 14:30
Matrix: Water
Date Received: 06/24/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		06/29/21 10:16	06/29/21 19:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20	ng/L		06/29/21 10:16	06/29/21 19:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.77	ng/L		06/29/21 10:16	06/29/21 19:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64	ng/L		06/29/21 10:16	06/29/21 19:57	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.94	ng/L		06/29/21 10:16	06/29/21 19:57	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33	ng/L		06/29/21 10:16	06/29/21 19:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*92*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C4 PFHpA	*98*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C4 PFOA	*102*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C4 PFOS	*86*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C5 PFNA	*97*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C4 PFBA	*77*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C2 PFHxA	*99*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C2 PFDA	*96*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C2 PFUnA	*79*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C2 PFDoA	*80*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C8 FOSA	*80*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C5 PFPeA	*98*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C2 PFTeDA	*78*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
d3-NMeFOSAA	*86*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
d5-NEtFOSAA	*75*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
M2-6:2 FTS	*101*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*
13C3 PFBS	*89*		*50 - 150*	*06/29/21 10:16*	*06/29/21 19:57*	*1*

Client Sample ID: EB-01
Lab Sample ID: 480-186439-5
Date Collected: 06/23/21 10:15
Matrix: Water
Date Received: 06/24/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/29/21 05:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/29/21 05:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/29/21 05:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/29/21 05:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/29/21 05:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/29/21 05:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 05:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/29/21 05:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/29/21 05:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/29/21 05:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/29/21 05:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/29/21 05:23	1

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: EB-01

Date Collected: 06/23/21 10:15
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/29/21 05:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/29/21 05:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/29/21 05:23	1
2-Hexanone	ND		5.0	1.2	ug/L			06/29/21 05:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/29/21 05:23	1
Acetone	ND		10	3.0	ug/L			06/29/21 05:23	1
Benzene	ND		1.0	0.41	ug/L			06/29/21 05:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/29/21 05:23	1
Bromoform	ND		1.0	0.26	ug/L			06/29/21 05:23	1
Bromomethane	ND		1.0	0.69	ug/L			06/29/21 05:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/29/21 05:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/29/21 05:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/29/21 05:23	1
Chloroethane	ND		1.0	0.32	ug/L			06/29/21 05:23	1
Chloroform	ND		1.0	0.34	ug/L			06/29/21 05:23	1
Chloromethane	ND		1.0	0.35	ug/L			06/29/21 05:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/29/21 05:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/29/21 05:23	1
Cyclohexane	ND		1.0	0.18	ug/L			06/29/21 05:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/29/21 05:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/29/21 05:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/29/21 05:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/29/21 05:23	1
Methyl acetate	ND		2.5	1.3	ug/L			06/29/21 05:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/29/21 05:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/29/21 05:23	1
Methylene Chloride	**1.1**		1.0	0.44	ug/L			06/29/21 05:23	1
Styrene	ND		1.0	0.73	ug/L			06/29/21 05:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/29/21 05:23	1
Toluene	ND		1.0	0.51	ug/L			06/29/21 05:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/29/21 05:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/29/21 05:23	1
Trichloroethene	ND		1.0	0.46	ug/L			06/29/21 05:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/29/21 05:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/29/21 05:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/29/21 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*06/29/21 05:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/29/21 05:23*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/29/21 05:23*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/29/21 05:23*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.096	ug/L		06/25/21 08:43	07/03/21 01:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*06/25/21 08:43*	*07/03/21 01:03*	*1*

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: EB-01
Date Collected: 06/23/21 10:15
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 13:14	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 13:14	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 13:14	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 13:14	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 13:14	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 13:14	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 13:14	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 13:14	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 13:14	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 13:14	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 13:14	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 13:14	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 13:14	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 13:14	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 13:14	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 13:14	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 13:14	1
Acenaphthene	ND		5.0	0.41	ug/L		06/27/21 09:30	07/02/21 13:14	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 13:14	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 13:14	1
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 13:14	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 13:14	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 13:14	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 13:14	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 13:14	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 13:14	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 13:14	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 13:14	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 13:14	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 13:14	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 13:14	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 13:14	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 13:14	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 13:14	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 13:14	1
Carbazole	ND	*+	5.0	0.30	ug/L		06/27/21 09:30	07/02/21 13:14	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 13:14	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 13:14	1
Dibenzofuran	ND		10	0.51	ug/L		06/27/21 09:30	07/02/21 13:14	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 13:14	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 13:14	1
Di-n-butyl phthalate	**40**	**B *+**	5.0	0.31	ug/L		06/27/21 09:30	07/02/21 13:14	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 13:14	1

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: EB-01
Date Collected: 06/23/21 10:15
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 13:14	1
Fluorene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 13:14	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 13:14	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 13:14	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 13:14	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 13:14	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 13:14	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 13:14	1
Naphthalene	ND		5.0	0.76	ug/L		06/27/21 09:30	07/02/21 13:14	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 13:14	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 13:14	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 13:14	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 13:14	1
Phenanthrene	ND		5.0	0.44	ug/L		06/27/21 09:30	07/02/21 13:14	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 13:14	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*41 - 120*	*06/27/21 09:30*	*07/02/21 13:14*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*06/27/21 09:30*	*07/02/21 13:14*	*1*
2-Fluorophenol (Surr)	*58*		*35 - 120*	*06/27/21 09:30*	*07/02/21 13:14*	*1*
Nitrobenzene-d5 (Surr)	*83*		*46 - 120*	*06/27/21 09:30*	*07/02/21 13:14*	*1*
Phenol-d5 (Surr)	*40*		*22 - 120*	*06/27/21 09:30*	*07/02/21 13:14*	*1*
p-Terphenyl-d14 (Surr)	*108*		*60 - 148*	*06/27/21 09:30*	*07/02/21 13:14*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/25/21 15:00	06/28/21 18:29	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/25/21 15:00	06/28/21 18:29	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/25/21 15:00	06/28/21 18:29	1
Aldrin	ND		0.050	0.0081	ug/L		06/25/21 15:00	06/28/21 18:29	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/25/21 15:00	06/28/21 18:29	1
beta-BHC	ND		0.050	0.025	ug/L		06/25/21 15:00	06/28/21 18:29	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/25/21 15:00	06/28/21 18:29	1
delta-BHC	ND		0.050	0.010	ug/L		06/25/21 15:00	06/28/21 18:29	1
Dieldrin	ND		0.050	0.0098	ug/L		06/25/21 15:00	06/28/21 18:29	1
Endosulfan I	ND		0.050	0.011	ug/L		06/25/21 15:00	06/28/21 18:29	1
Endosulfan II	ND		0.050	0.012	ug/L		06/25/21 15:00	06/28/21 18:29	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/25/21 15:00	06/28/21 18:29	1
Endrin	ND		0.050	0.014	ug/L		06/25/21 15:00	06/28/21 18:29	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/25/21 15:00	06/28/21 18:29	1
Endrin ketone	ND		0.050	0.012	ug/L		06/25/21 15:00	06/28/21 18:29	1
gamma-BHC (Lindane)	**0.014**	**J B**	0.050	0.0080	ug/L		06/25/21 15:00	06/28/21 18:29	1
Heptachlor	ND		0.050	0.0085	ug/L		06/25/21 15:00	06/28/21 18:29	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/25/21 15:00	06/28/21 18:29	1
Methoxychlor	ND		0.050	0.014	ug/L		06/25/21 15:00	06/28/21 18:29	1
Toxaphene	ND		0.50	0.12	ug/L		06/25/21 15:00	06/28/21 18:29	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/25/21 15:00	06/28/21 18:29	1

Client Sample ID: EB-01

Date Collected: 06/23/21 10:15
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		20 - 120	06/25/21 15:00	06/28/21 18:29	1
DCB Decachlorobiphenyl	62		20 - 120	06/25/21 15:00	06/28/21 18:29	1
Tetrachloro-m-xylene	91		44 - 120	06/25/21 15:00	06/28/21 18:29	1
Tetrachloro-m-xylene	75		44 - 120	06/25/21 15:00	06/28/21 18:29	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 16:58	1
PCB-1221	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 16:58	1
PCB-1232	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 16:58	1
PCB-1242	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 16:58	1
PCB-1248	ND		0.52	0.18	ug/L		07/03/21 08:50	07/06/21 16:58	1
PCB-1254	ND		0.52	0.26	ug/L		07/03/21 08:50	07/06/21 16:58	1
PCB-1260	ND		0.52	0.26	ug/L		07/03/21 08:50	07/06/21 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		19 - 120	07/03/21 08:50	07/06/21 16:58	1
DCB Decachlorobiphenyl	105		19 - 120	07/03/21 08:50	07/06/21 16:58	1
Tetrachloro-m-xylene	111		39 - 121	07/03/21 08:50	07/06/21 16:58	1
Tetrachloro-m-xylene	110		39 - 121	07/03/21 08:50	07/06/21 16:58	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.22	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.38	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.23	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.27	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.26	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorobutanoic acid (PFBA)	ND		4.5	0.81	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.43	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.41	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluoroundecanoic acid (PFUnA)	ND	*+	1.8	0.31	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.35	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.57	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.52	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		06/29/21 10:16	06/29/21 20:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.21	ng/L		06/29/21 10:16	06/29/21 20:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.82	ng/L		06/29/21 10:16	06/29/21 20:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.67	ng/L		06/29/21 10:16	06/29/21 20:31	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.5	0.99	ng/L		06/29/21 10:16	06/29/21 20:31	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.35	ng/L		06/29/21 10:16	06/29/21 20:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	88		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C4 PFHpA	98		50 - 150	06/29/21 10:16	06/29/21 20:31	1

Client Sample ID: EB-01
Date Collected: 06/23/21 10:15
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-5
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	97		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C4 PFOS	91		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C5 PFNA	89		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C4 PFBA	100		25 - 150	06/29/21 10:16	06/29/21 20:31	1
13C2 PFHxA	102		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C2 PFDA	97		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C2 PFUnA	90		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C2 PFDoA	80		50 - 150	06/29/21 10:16	06/29/21 20:31	1
13C8 FOSA	69		25 - 150	06/29/21 10:16	06/29/21 20:31	1
13C5 PFPeA	107		25 - 150	06/29/21 10:16	06/29/21 20:31	1
13C2 PFTeDA	67		50 - 150	06/29/21 10:16	06/29/21 20:31	1
d3-NMeFOSAA	88		50 - 150	06/29/21 10:16	06/29/21 20:31	1
d5-NEtFOSAA	82		50 - 150	06/29/21 10:16	06/29/21 20:31	1
M2-6:2 FTS	90		25 - 150	06/29/21 10:16	06/29/21 20:31	1
M2-8:2 FTS	107		25 - 150	06/29/21 10:16	06/29/21 20:31	1
13C3 PFBS	94		50 - 150	06/29/21 10:16	06/29/21 20:31	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/25/21 09:57	06/25/21 23:59	1
Antimony	ND		0.020	0.0068	mg/L		06/25/21 09:57	06/25/21 23:59	1
Arsenic	ND		0.015	0.0056	mg/L		06/25/21 09:57	06/25/21 23:59	1
Barium	ND	^6+	0.0020	0.00070	mg/L		06/25/21 09:57	06/25/21 23:59	1
Beryllium	ND		0.0020	0.00030	mg/L		06/25/21 09:57	06/25/21 23:59	1
Cadmium	ND		0.0020	0.00050	mg/L		06/25/21 09:57	06/25/21 23:59	1
Calcium	ND		0.50	0.10	mg/L		06/25/21 09:57	06/25/21 23:59	1
Chromium	ND		0.0040	0.0010	mg/L		06/25/21 09:57	06/25/21 23:59	1
Cobalt	ND		0.0040	0.00063	mg/L		06/25/21 09:57	06/25/21 23:59	1
Copper	ND		0.010	0.0016	mg/L		06/25/21 09:57	06/25/21 23:59	1
Iron	ND		0.050	0.019	mg/L		06/25/21 09:57	06/25/21 23:59	1
Lead	ND		0.010	0.0030	mg/L		06/25/21 09:57	06/25/21 23:59	1
Magnesium	ND		0.20	0.043	mg/L		06/25/21 09:57	06/25/21 23:59	1
Manganese	ND		0.0030	0.00040	mg/L		06/25/21 09:57	06/25/21 23:59	1
Nickel	ND		0.010	0.0013	mg/L		06/25/21 09:57	06/25/21 23:59	1
Potassium	**0.13**	**J B**	0.50	0.10	mg/L		06/25/21 09:57	06/25/21 23:59	1
Selenium	ND		0.025	0.0087	mg/L		06/25/21 09:57	06/25/21 23:59	1
Silver	ND		0.0060	0.0017	mg/L		06/25/21 09:57	06/25/21 23:59	1
Sodium	ND		1.0	0.32	mg/L		06/25/21 09:57	06/25/21 23:59	1
Thallium	ND		0.020	0.010	mg/L		06/25/21 09:57	06/25/21 23:59	1
Vanadium	ND		0.0050	0.0015	mg/L		06/25/21 09:57	06/25/21 23:59	1
Zinc	ND		0.010	0.0015	mg/L		06/25/21 09:57	06/25/21 23:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/24/21 17:35	1
Nitrite as N	ND		0.050	0.020	mg/L			06/24/21 17:35	1
Total Organic Carbon	ND		1.0	0.43	mg/L			06/30/21 14:29	1
Sulfate	ND		5.0	1.5	mg/L			06/25/21 18:40	1
Nitrate as N	ND		0.050	0.020	mg/L			06/24/21 17:35	1
Alkalinity, Total	ND		5.0	0.79	mg/L			06/28/21 12:20	1

Client: New York State D.E.C.
Job ID: 480-186439-1
Project/Site: Speedy's Cleaners #828109

Client Sample ID: EB-01
Lab Sample ID: 480-186439-5
Date Collected: 06/23/21 10:15
Matrix: Water
Date Received: 06/24/21 08:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/26/21 14:30	1
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:25	1
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-186439-1	282109-MW-2B-062321	92	103	96	94
480-186439-5	EB-01	98	99	97	92
LCS 480-587278/6	Lab Control Sample	92	103	93	93
MB 480-587278/8	Method Blank	97	99	98	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-186439-5	EB-01	92	97	58	83	40	108
LCS 480-587140/2-A	Lab Control Sample	116	101	81	101	63	110
MB 480-587140/1-A	Method Blank	103	110	81	100	56	120

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-186439-5	EB-01	66	62	91	75
LCS 480-587053/2-A	Lab Control Sample	42	39	75	81
LCSD 480-587053/3-A	Lab Control Sample Dup	35	36	70	84
MB 480-587053/1-A	Method Blank	57	50	91	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(19-120)	(19-120)	(39-121)	(39-121)
480-186439-5	EB-01	105	105	111	110
LCS 480-588013/2-A	Lab Control Sample	47	49	89	87

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-186439-1
Project/Site: Speedy's Cleaners #828109

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		DCBP1	DCBP2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(19-120)	(19-120)	(39-121)	(39-121)				
MB 480-588013/1-A	Method Blank	65	64	94	95				

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DXE (15-110)
480-186439-1	282109-MW-2B-062321	31
480-186439-5	EB-01	30
LCS 480-586964/2-A	Lab Control Sample	34
MB 480-586964/1-A	Method Blank	31

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-186439-2	282109-MW-6-062221	86	92	100	87	101	56	88	99
480-186439-3	282109-MW-906-062221	85	92	98	86	103	56	87	104
480-186439-4	282109-MW-2-062121	92	98	102	86	97	77	99	96
480-186439-4 MS	282109-MW-2-062121	91	93	99	90	96	75	94	90
480-186439-4 MSD	282109-MW-2-062121	93	97	101	97	97	77	99	96
480-186439-5	EB-01	88	98	97	91	89	100	102	97
LCS 200-168535/2-A	Lab Control Sample	94	102	103	97	101	108	110	104
MB 200-168535/1-A	Method Blank	91	98	101	95	99	103	102	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-186439-2	282109-MW-6-062221	97	83	69	83	80	95	92	114
480-186439-3	282109-MW-906-062221	98	93	64	81	88	92	99	122
480-186439-4	282109-MW-2-062121	79	80	80	98	78	86	75	101
480-186439-4 MS	282109-MW-2-062121	79	75	78	94	76	84	77	91
480-186439-4 MSD	282109-MW-2-062121	85	87	83	95	86	88	91	102
480-186439-5	EB-01	90	80	69	107	67	88	82	90
LCS 200-168535/2-A	Lab Control Sample	86	71	67	107	63	84	80	100
MB 200-168535/1-A	Method Blank	90	69	57	105	57	84	78	92

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)
480-186439-2	282109-MW-6-062221	111	85
480-186439-3	282109-MW-906-062221	109	85
480-186439-4	282109-MW-2-062121	100	89
480-186439-4 MS	282109-MW-2-062121	102	93
480-186439-4 MSD	282109-MW-2-062121	103	93
480-186439-5	EB-01	107	94
LCS 200-168535/2-A	Lab Control Sample	108	98
MB 200-168535/1-A	Method Blank	101	92

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-186439-1
Project/Site: Speedy's Cleaners #828109

PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

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

Lab Sample ID: MB 480-587278/8
Matrix: Water
Analysis Batch: 587278

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/21 23:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/21 23:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/21 23:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/21 23:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/21 23:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/21 23:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/21 23:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/21 23:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/21 23:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/21 23:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/21 23:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/21 23:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/21 23:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/21 23:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/21 23:13	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/21 23:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/21 23:13	1
Acetone	ND		10	3.0	ug/L			06/28/21 23:13	1
Benzene	ND		1.0	0.41	ug/L			06/28/21 23:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/21 23:13	1
Bromoform	ND		1.0	0.26	ug/L			06/28/21 23:13	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/21 23:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/21 23:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/21 23:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/21 23:13	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/21 23:13	1
Chloroform	ND		1.0	0.34	ug/L			06/28/21 23:13	1
Chloromethane	ND		1.0	0.35	ug/L			06/28/21 23:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/21 23:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/21 23:13	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/21 23:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/21 23:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/21 23:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/21 23:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/21 23:13	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/21 23:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/21 23:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/21 23:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/21 23:13	1
Styrene	ND		1.0	0.73	ug/L			06/28/21 23:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/21 23:13	1
Toluene	ND		1.0	0.51	ug/L			06/28/21 23:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/21 23:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/21 23:13	1
Trichloroethene	ND		1.0	0.46	ug/L			06/28/21 23:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/21 23:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/21 23:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/21 23:13	1

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

Lab Sample ID: MB 480-587278/8
Matrix: Water
Analysis Batch: 587278

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		06/28/21 23:13	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/28/21 23:13	1
Dibromofluoromethane (Surr)	98		75 - 123		06/28/21 23:13	1
Toluene-d8 (Surr)	91		80 - 120		06/28/21 23:13	1

Lab Sample ID: LCS 480-587278/6
Matrix: Water
Analysis Batch: 587278

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.8		ug/L		91	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.5		ug/L		102	61 - 148
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	76 - 122
1,1-Dichloroethane	25.0	22.9		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	23.9		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	21.7		ug/L		87	80 - 124
1,2-Dichloroethane	25.0	22.3		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
1,3-Dichlorobenzene	25.0	21.5		ug/L		86	77 - 120
1,4-Dichlorobenzene	25.0	21.0		ug/L		84	80 - 120
2-Butanone (MEK)	125	114		ug/L		91	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	71 - 125
Acetone	125	122		ug/L		97	56 - 142
Benzene	25.0	22.7		ug/L		91	71 - 124
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122
Bromoform	25.0	23.0		ug/L		92	61 - 132
Bromomethane	25.0	26.4		ug/L		106	55 - 144
Carbon disulfide	25.0	23.1		ug/L		92	59 - 134
Carbon tetrachloride	25.0	22.6		ug/L		90	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	27.8		ug/L		111	69 - 136
Chloroform	25.0	21.8		ug/L		87	73 - 127
Chloromethane	25.0	26.5		ug/L		106	68 - 124
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
Cyclohexane	25.0	23.1		ug/L		93	59 - 135
Dibromochloromethane	25.0	23.1		ug/L		92	75 - 125
Dichlorodifluoromethane	25.0	21.2		ug/L		85	59 - 135
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Isopropylbenzene	25.0	23.7		ug/L		95	77 - 122
Methyl acetate	50.0	43.7		ug/L		87	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
Methylcyclohexane	25.0	23.4		ug/L		93	68 - 134

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

Lab Sample ID: LCS 480-587278/6
Matrix: Water
Analysis Batch: 587278

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.4		ug/L		97	75 - 124
Styrene	25.0	23.9		ug/L		95	80 - 120
Tetrachloroethene	25.0	21.4		ug/L		86	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	21.5		ug/L		86	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120
Trichloroethene	25.0	22.8		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	24.6		ug/L		98	62 - 150
Vinyl chloride	25.0	26.9		ug/L		108	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Nitroaniline	ND		10	0.42	ug/L		06/27/21 09:30	07/02/21 04:29	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
3-Nitroaniline	ND		10	0.48	ug/L		06/27/21 09:30	07/02/21 04:29	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Methylphenol	ND		10	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Nitroaniline	ND		10	0.25	ug/L		06/27/21 09:30	07/02/21 04:29	1
4-Nitrophenol	ND		10	1.5	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acenaphthene	ND		5.0	0.41	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/27/21 09:30	07/02/21 04:29	1
Acetophenone	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 04:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-587140/1-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		5.0	0.28	ug/L		06/27/21 09:30	07/02/21 04:29	1
Atrazine	ND		5.0	0.46	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/27/21 09:30	07/02/21 04:29	1
Biphenyl	ND		5.0	0.65	ug/L		06/27/21 09:30	07/02/21 04:29	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/27/21 09:30	07/02/21 04:29	1
Caprolactam	ND		5.0	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Carbazole	ND		5.0	0.30	ug/L		06/27/21 09:30	07/02/21 04:29	1
Chrysene	ND		5.0	0.33	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dibenzofuran	ND		10	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/27/21 09:30	07/02/21 04:29	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Di-n-butyl phthalate	18.8		5.0	0.31	ug/L		06/27/21 09:30	07/02/21 04:29	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Fluoranthene	ND		5.0	0.40	ug/L		06/27/21 09:30	07/02/21 04:29	1
Fluorene	ND		5.0	0.36	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/27/21 09:30	07/02/21 04:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/27/21 09:30	07/02/21 04:29	1
Isophorone	ND		5.0	0.43	ug/L		06/27/21 09:30	07/02/21 04:29	1
Naphthalene	ND		5.0	0.76	ug/L		06/27/21 09:30	07/02/21 04:29	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/27/21 09:30	07/02/21 04:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/27/21 09:30	07/02/21 04:29	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/27/21 09:30	07/02/21 04:29	1
Pentachlorophenol	ND		10	2.2	ug/L		06/27/21 09:30	07/02/21 04:29	1
Phenanthrene	ND		5.0	0.44	ug/L		06/27/21 09:30	07/02/21 04:29	1
Phenol	ND		5.0	0.39	ug/L		06/27/21 09:30	07/02/21 04:29	1
Pyrene	ND		5.0	0.34	ug/L		06/27/21 09:30	07/02/21 04:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*41 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
2-Fluorobiphenyl	*110*		*48 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
2-Fluorophenol (Surr)	*81*		*35 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
Phenol-d5 (Surr)	*56*		*22 - 120*	*06/27/21 09:30*	*07/02/21 04:29*	*1*
p-Terphenyl-d14 (Surr)	*120*		*60 - 148*	*06/27/21 09:30*	*07/02/21 04:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	32.4		ug/L		101	65 - 126
2,4,6-Trichlorophenol	32.0	32.2		ug/L		101	64 - 120
2,4-Dichlorophenol	32.0	32.4		ug/L		101	63 - 120
2,4-Dimethylphenol	32.0	31.2		ug/L		98	47 - 120
2,4-Dinitrophenol	64.0	70.9		ug/L		111	31 - 137
2,4-Dinitrotoluene	32.0	34.6		ug/L		108	69 - 120
2,6-Dinitrotoluene	32.0	33.9		ug/L		106	68 - 120
2-Chloronaphthalene	32.0	30.3		ug/L		95	58 - 120
2-Chlorophenol	32.0	32.3		ug/L		101	48 - 120
2-Methylnaphthalene	32.0	30.4		ug/L		95	59 - 120
2-Methylphenol	32.0	32.3		ug/L		101	39 - 120
2-Nitroaniline	32.0	32.2		ug/L		101	54 - 127
2-Nitrophenol	32.0	35.0		ug/L		109	52 - 125
3,3'-Dichlorobenzidine	64.0	54.9		ug/L		86	49 - 135
3-Nitroaniline	32.0	24.7		ug/L		77	51 - 120
4,6-Dinitro-2-methylphenol	64.0	76.0		ug/L		119	46 - 136
4-Bromophenyl phenyl ether	32.0	37.8		ug/L		118	65 - 120
4-Chloro-3-methylphenol	32.0	32.7		ug/L		102	61 - 123
4-Chloroaniline	32.0	19.2		ug/L		60	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.7		ug/L		102	62 - 120
4-Methylphenol	32.0	32.2		ug/L		101	29 - 131
4-Nitroaniline	32.0	29.2		ug/L		91	65 - 120
4-Nitrophenol	64.0	47.1		ug/L		74	45 - 120
Acenaphthene	32.0	32.3		ug/L		101	60 - 120
Acenaphthylene	32.0	34.2		ug/L		107	63 - 120
Acetophenone	32.0	33.4		ug/L		104	45 - 120
Anthracene	32.0	34.4		ug/L		108	67 - 120
Atrazine	64.0	73.1		ug/L		114	71 - 130
Benzaldehyde	64.0	64.5		ug/L		101	10 - 140
Benzo[a]anthracene	32.0	36.4		ug/L		114	70 - 121
Benzo[a]pyrene	32.0	32.7		ug/L		102	60 - 123
Benzo[b]fluoranthene	32.0	36.1		ug/L		113	66 - 126
Benzo[g,h,i]perylene	32.0	35.9		ug/L		112	66 - 150
Benzo[k]fluoranthene	32.0	34.6		ug/L		108	65 - 124
Biphenyl	32.0	31.3		ug/L		98	59 - 120
bis (2-chloroisopropyl) ether	32.0	31.0		ug/L		97	21 - 136
Bis(2-chloroethoxy)methane	32.0	33.5		ug/L		105	50 - 128
Bis(2-chloroethyl)ether	32.0	34.1		ug/L		107	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	36.9		ug/L		115	63 - 139
Butyl benzyl phthalate	32.0	36.4		ug/L		114	70 - 129
Caprolactam	64.0	25.8		ug/L		40	22 - 120
Carbazole	32.0	41.2	*+	ug/L		129	66 - 123
Chrysene	32.0	35.2		ug/L		110	69 - 120
Dibenz(a,h)anthracene	32.0	36.1		ug/L		113	65 - 135
Dibenzofuran	32.0	32.8		ug/L		102	66 - 120
Diethyl phthalate	32.0	34.7		ug/L		108	59 - 127
Dimethyl phthalate	32.0	33.9		ug/L		106	68 - 120
Di-n-butyl phthalate	32.0	45.5	*+	ug/L		142	69 - 131

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-587140/2-A
Matrix: Water
Analysis Batch: 587795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	32.0	37.5		ug/L		117	63 - 140
Fluoranthene	32.0	35.3		ug/L		110	69 - 126
Fluorene	32.0	33.8		ug/L		106	66 - 120
Hexachlorobenzene	32.0	34.5		ug/L		108	61 - 120
Hexachlorobutadiene	32.0	27.3		ug/L		85	35 - 120
Hexachlorocyclopentadiene	32.0	20.6		ug/L		64	31 - 120
Hexachloroethane	32.0	27.7		ug/L		86	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.1		ug/L		110	69 - 146
Isophorone	32.0	34.3		ug/L		107	55 - 120
Naphthalene	32.0	30.7		ug/L		96	57 - 120
Nitrobenzene	32.0	33.8		ug/L		105	53 - 123
N-Nitrosodi-n-propylamine	32.0	34.4		ug/L		107	32 - 140
N-Nitrosodiphenylamine	32.0	33.5		ug/L		105	61 - 120
Pentachlorophenol	64.0	72.7		ug/L		114	29 - 136
Phenanthrene	32.0	35.6		ug/L		111	68 - 120
Phenol	32.0	21.4		ug/L		67	17 - 120
Pyrene	32.0	35.4		ug/L		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*116*		*41 - 120*
2-Fluorobiphenyl	*101*		*48 - 120*
2-Fluorophenol (Surr)	*81*		*35 - 120*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*
Phenol-d5 (Surr)	*63*		*22 - 120*
p-Terphenyl-d14 (Surr)	*110*		*60 - 148*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-586964/1-A
Matrix: Water
Analysis Batch: 587933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/25/21 08:43	07/02/21 22:45	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/25/21 08:43*	*07/02/21 22:45*	*1*

Lab Sample ID: LCS 480-586964/2-A
Matrix: Water
Analysis Batch: 587933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.05		ug/L		105	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*34*		*15 - 110*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-587053/1-A
Matrix: Water
Analysis Batch: 587219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/25/21 15:00	06/28/21 13:56	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/25/21 15:00	06/28/21 13:56	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/25/21 15:00	06/28/21 13:56	1
Aldrin	ND		0.050	0.0081	ug/L		06/25/21 15:00	06/28/21 13:56	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/25/21 15:00	06/28/21 13:56	1
beta-BHC	ND		0.050	0.025	ug/L		06/25/21 15:00	06/28/21 13:56	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/25/21 15:00	06/28/21 13:56	1
delta-BHC	ND		0.050	0.010	ug/L		06/25/21 15:00	06/28/21 13:56	1
Dieldrin	ND		0.050	0.0098	ug/L		06/25/21 15:00	06/28/21 13:56	1
Endosulfan I	ND		0.050	0.011	ug/L		06/25/21 15:00	06/28/21 13:56	1
Endosulfan II	ND		0.050	0.012	ug/L		06/25/21 15:00	06/28/21 13:56	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/25/21 15:00	06/28/21 13:56	1
Endrin	ND		0.050	0.014	ug/L		06/25/21 15:00	06/28/21 13:56	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/25/21 15:00	06/28/21 13:56	1
Endrin ketone	ND		0.050	0.012	ug/L		06/25/21 15:00	06/28/21 13:56	1
gamma-BHC (Lindane)	0.0115	J	0.050	0.0080	ug/L		06/25/21 15:00	06/28/21 13:56	1
Heptachlor	ND		0.050	0.0085	ug/L		06/25/21 15:00	06/28/21 13:56	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/25/21 15:00	06/28/21 13:56	1
Methoxychlor	ND		0.050	0.014	ug/L		06/25/21 15:00	06/28/21 13:56	1
Toxaphene	ND		0.50	0.12	ug/L		06/25/21 15:00	06/28/21 13:56	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/25/21 15:00	06/28/21 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*20 - 120*	*06/25/21 15:00*	*06/28/21 13:56*	*1*
DCB Decachlorobiphenyl	*50*		*20 - 120*	*06/25/21 15:00*	*06/28/21 13:56*	*1*
Tetrachloro-m-xylene	*91*		*44 - 120*	*06/25/21 15:00*	*06/28/21 13:56*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*06/25/21 15:00*	*06/28/21 13:56*	*1*

Lab Sample ID: LCS 480-587053/2-A
Matrix: Water
Analysis Batch: 587219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.409		ug/L		102	64 - 129
4,4'-DDE	0.400	0.334		ug/L		83	50 - 120
4,4'-DDT	0.400	0.423		ug/L		106	59 - 120
Aldrin	0.400	0.314		ug/L		79	40 - 125
alpha-BHC	0.400	0.336		ug/L		84	52 - 125
beta-BHC	0.400	0.393		ug/L		98	51 - 120
cis-Chlordane	0.400	0.331		ug/L		83	52 - 120
delta-BHC	0.400	0.362		ug/L		91	51 - 120
Dieldrin	0.400	0.344		ug/L		86	66 - 128
Endosulfan I	0.400	0.363		ug/L		91	57 - 120
Endosulfan II	0.400	0.387		ug/L		97	66 - 131
Endosulfan sulfate	0.400	0.472		ug/L		118	66 - 136
Endrin	0.400	0.426		ug/L		107	65 - 135
Endrin aldehyde	0.400	0.390		ug/L		97	61 - 134
Endrin ketone	0.400	0.470		ug/L		118	71 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-587053/2-A
Matrix: Water
Analysis Batch: 587219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
gamma-BHC (Lindane)			0.400	0.376		ug/L		94	56 - 120		
Heptachlor			0.400	0.385		ug/L		96	58 - 120		
Heptachlor epoxide			0.400	0.428		ug/L		107	65 - 125		
Methoxychlor			0.400	0.489		ug/L		122	50 - 150		
trans-Chlordane			0.400	0.379		ug/L		95	54 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*42*		*20 - 120*
DCB Decachlorobiphenyl	*39*		*20 - 120*
Tetrachloro-m-xylene	*75*		*44 - 120*
Tetrachloro-m-xylene	*81*		*44 - 120*

Lab Sample ID: LCSD 480-587053/3-A
Matrix: Water
Analysis Batch: 587219

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 587053

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.400	0.368		ug/L		92	64 - 129	11	23
4,4'-DDE			0.400	0.311		ug/L		78	50 - 120	7	22
4,4'-DDT			0.400	0.404		ug/L		101	59 - 120	5	24
Aldrin			0.400	0.292		ug/L		73	40 - 125	7	25
alpha-BHC			0.400	0.311		ug/L		78	52 - 125	8	24
beta-BHC			0.400	0.365		ug/L		91	51 - 120	7	24
cis-Chlordane			0.400	0.294		ug/L		74	52 - 120	12	23
delta-BHC			0.400	0.330		ug/L		82	51 - 120	9	24
Dieldrin			0.400	0.321		ug/L		80	66 - 128	7	24
Endosulfan I			0.400	0.315		ug/L		79	57 - 120	14	30
Endosulfan II			0.400	0.340		ug/L		85	66 - 131	13	40
Endosulfan sulfate			0.400	0.439		ug/L		110	66 - 136	7	24
Endrin			0.400	0.417		ug/L		104	65 - 135	2	24
Endrin aldehyde			0.400	0.367		ug/L		92	61 - 134	6	28
Endrin ketone			0.400	0.429		ug/L		107	71 - 133	9	26
gamma-BHC (Lindane)			0.400	0.362		ug/L		91	56 - 120	4	24
Heptachlor			0.400	0.365		ug/L		91	58 - 120	5	25
Heptachlor epoxide			0.400	0.388		ug/L		97	65 - 125	10	23
Methoxychlor			0.400	0.479		ug/L		120	50 - 150	2	26
trans-Chlordane			0.400	0.343		ug/L		86	54 - 120	10	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*35*		*20 - 120*
DCB Decachlorobiphenyl	*36*		*20 - 120*
Tetrachloro-m-xylene	*70*		*44 - 120*
Tetrachloro-m-xylene	*84*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-588013/1-A
Matrix: Water
Analysis Batch: 588119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1221	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1232	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1242	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1248	ND		0.50	0.18	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1254	ND		0.50	0.25	ug/L		07/03/21 08:50	07/06/21 13:58	1
PCB-1260	ND		0.50	0.25	ug/L		07/03/21 08:50	07/06/21 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*19 - 120*	*07/03/21 08:50*	*07/06/21 13:58*	*1*
DCB Decachlorobiphenyl	*64*		*19 - 120*	*07/03/21 08:50*	*07/06/21 13:58*	*1*
Tetrachloro-m-xylene	*94*		*39 - 121*	*07/03/21 08:50*	*07/06/21 13:58*	*1*
Tetrachloro-m-xylene	*95*		*39 - 121*	*07/03/21 08:50*	*07/06/21 13:58*	*1*

Lab Sample ID: LCS 480-588013/2-A
Matrix: Water
Analysis Batch: 588119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588013

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.91		ug/L		98	62 - 130		
PCB-1260			4.00	3.53		ug/L		88	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*19 - 120*
DCB Decachlorobiphenyl	*49*		*19 - 120*
Tetrachloro-m-xylene	*89*		*39 - 121*
Tetrachloro-m-xylene	*87*		*39 - 121*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-168535/1-A
Matrix: Water
Analysis Batch: 168576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		06/29/21 10:15	06/29/21 18:26	1

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

Lab Sample ID: MB 200-168535/1-A
Matrix: Water
Analysis Batch: 168576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		06/29/21 10:15	06/29/21 18:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		06/29/21 10:15	06/29/21 18:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		06/29/21 10:15	06/29/21 18:26	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		06/29/21 10:15	06/29/21 18:26	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		06/29/21 10:15	06/29/21 18:26	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*91*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C4 PFHpA	*98*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C4 PFOA	*101*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C4 PFOS	*95*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C5 PFNA	*99*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C4 PFBA	*103*		*25 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C2 PFHxA	*102*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C2 PFDA	*97*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C2 PFUnA	*90*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C2 PFDoA	*69*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C8 FOSA	*57*		*25 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C5 PFPeA	*105*		*25 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C2 PFTeDA	*57*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
d3-NMeFOSAA	*84*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
d5-NEtFOSAA	*78*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
M2-6:2 FTS	*92*		*25 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
M2-8:2 FTS	*101*		*25 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*
13C3 PFBS	*92*		*50 - 150*	*06/29/21 10:15*	*06/29/21 18:26*	*1*

Lab Sample ID: LCS 200-168535/2-A
Matrix: Water
Analysis Batch: 168576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanoic acid (PFHpA)	40.0	44.7		ng/L		112	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	45.6		ng/L		114	70 - 130
Perfluorononanoic acid (PFNA)	40.0	46.7		ng/L		117	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	41.1		ng/L		116	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	42.4		ng/L		117	70 - 130
Perfluorooctanesulfonic acid (PFOS)	37.1	41.3		ng/L		111	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	46.4		ng/L		116	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	47.2		ng/L		118	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	45.4		ng/L		114	70 - 130

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

Lab Sample ID: LCS 200-168535/2-A
Matrix: Water
Analysis Batch: 168576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroundecanoic acid (PFUnA)	40.0	52.6	*+	ng/L		131	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	42.9		ng/L		107	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	49.6		ng/L		124	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	45.5		ng/L		114	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	51.2		ng/L		128	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	43.2		ng/L		108	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	36.4		ng/L		94	50 - 150
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	44.3		ng/L		116	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.3		ng/L		113	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.2		ng/L		110	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	43.6		ng/L		115	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	43.5		ng/L		113	50 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
18O2 PFHxS	*94*		*50 - 150*
13C4 PFHpA	*102*		*50 - 150*
13C4 PFOA	*103*		*50 - 150*
13C4 PFOS	*97*		*50 - 150*
13C5 PFNA	*101*		*50 - 150*
13C4 PFBA	*108*		*25 - 150*
13C2 PFHxA	*110*		*50 - 150*
13C2 PFDA	*104*		*50 - 150*
13C2 PFUnA	*86*		*50 - 150*
13C2 PFDoA	*71*		*50 - 150*
13C8 FOSA	*67*		*25 - 150*
13C5 PFPeA	*107*		*25 - 150*
13C2 PFTeDA	*63*		*50 - 150*
d3-NMeFOSAA	*84*		*50 - 150*
d5-NEtFOSAA	*80*		*50 - 150*
M2-6:2 FTS	*100*		*25 - 150*
M2-8:2 FTS	*108*		*25 - 150*
13C3 PFBS	*98*		*50 - 150*

Lab Sample ID: 480-186439-4 MS
Matrix: Water
Analysis Batch: 168576

Client Sample ID: 282109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanoic acid (PFHpA)	2.5		34.7	44.7		ng/L		121	40 - 160
Perfluorooctanoic acid (PFOA)	5.0		34.7	45.6		ng/L		117	40 - 160
Perfluorononanoic acid (PFNA)	1.8		34.7	42.9		ng/L		118	40 - 160

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

Lab Sample ID: 480-186439-4 MS
Matrix: Water
Analysis Batch: 168576

Client Sample ID: 282109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanesulfonic acid (PFBS)	1.9		30.7	37.5		ng/L		116	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.0		31.6	37.5		ng/L		112	40 - 160
Perfluorooctanesulfonic acid (PFOS)	9.0		32.2	47.9		ng/L		121	40 - 160
Perfluorobutanoic acid (PFBA)	3.4	J	34.7	42.5		ng/L		112	40 - 160
Perfluoropentanoic acid (PFPeA)	3.5		34.7	44.5		ng/L		118	40 - 160
Perfluorohexanoic acid (PFHxA)	2.8		34.7	43.6		ng/L		117	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND	*+	34.7	41.9		ng/L		121	40 - 160
Perfluorodecanoic acid (PFDA)	1.2	J	34.7	41.3		ng/L		115	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		34.7	41.2		ng/L		119	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		34.7	40.2		ng/L		116	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		34.7	39.5		ng/L		114	40 - 160
Perfluorooctanesulfonamide (PFOSA)	ND		34.7	41.8		ng/L		120	40 - 160
Perfluorodecanesulfonic acid (PFDS)	ND		33.5	33.2		ng/L		99	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.1	39.9		ng/L		121	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		34.7	36.7		ng/L		106	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		34.7	37.6		ng/L		108	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		32.9	40.9		ng/L		124	40 - 160
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		33.3	36.8		ng/L		111	40 - 160

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
18O2 PFHxS	*91*		*50 - 150*
13C4 PFHpA	*93*		*50 - 150*
13C4 PFOA	*99*		*50 - 150*
13C4 PFOS	*90*		*50 - 150*
13C5 PFNA	*96*		*50 - 150*
13C4 PFBA	*75*		*25 - 150*
13C2 PFHxA	*94*		*50 - 150*
13C2 PFDA	*90*		*50 - 150*
13C2 PFUnA	*79*		*50 - 150*
13C2 PFDoA	*75*		*50 - 150*
13C8 FOSA	*78*		*25 - 150*
13C5 PFPeA	*94*		*25 - 150*
13C2 PFTeDA	*76*		*50 - 150*
d3-NMeFOSAA	*84*		*50 - 150*
d5-NEtFOSAA	*77*		*50 - 150*
M2-6:2 FTS	*91*		*25 - 150*
M2-8:2 FTS	*102*		*25 - 150*
13C3 PFBS	*93*		*50 - 150*

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

Lab Sample ID: 480-186439-4 MSD
Matrix: Water
Analysis Batch: 168576

Client Sample ID: 282109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroheptanoic acid (PFHpA)	2.5		33.8	42.1		ng/L		117	40 - 160	6	20
Perfluorooctanoic acid (PFOA)	5.0		33.8	44.2		ng/L		116	40 - 160	3	20
Perfluorononanoic acid (PFNA)	1.8		33.8	42.3		ng/L		120	40 - 160	1	20
Perfluorobutanesulfonic acid (PFBS)	1.9		29.9	38.5		ng/L		122	40 - 160	2	20
Perfluorohexanesulfonic acid (PFHxS)	2.0		30.8	39.9		ng/L		123	40 - 160	6	20
Perfluorooctanesulfonic acid (PFOS)	9.0		31.4	42.6		ng/L		107	40 - 160	12	20
Perfluorobutanoic acid (PFBA)	3.4	J	33.8	41.6		ng/L		113	40 - 160	2	30
Perfluoropentanoic acid (PFPeA)	3.5		33.8	43.8		ng/L		119	40 - 160	2	30
Perfluorohexanoic acid (PFHxA)	2.8		33.8	41.9		ng/L		116	40 - 160	4	20
Perfluoroundecanoic acid (PFUnA)	ND	*+	33.8	41.1		ng/L		121	40 - 160	2	20
Perfluorodecanoic acid (PFDA)	1.2	J	33.8	39.0		ng/L		112	40 - 160	6	20
Perfluorododecanoic acid (PFDoA)	ND		33.8	37.3		ng/L		110	40 - 160	10	20
Perfluorotridecanoic acid (PFTriA)	ND		33.8	39.0		ng/L		116	40 - 160	3	20
Perfluorotetradecanoic acid (PFTeA)	ND		33.8	38.5		ng/L		114	40 - 160	3	20
Perfluorooctanesulfonamide (PFOSA)	ND		33.8	40.0		ng/L		118	40 - 160	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		32.6	32.7		ng/L		100	40 - 160	2	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		32.2	36.9		ng/L		115	40 - 160	8	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		33.8	38.9		ng/L		115	40 - 160	6	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		33.8	38.9		ng/L		115	40 - 160	4	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		32.0	38.2		ng/L		119	40 - 160	7	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		32.4	36.2		ng/L		112	40 - 160	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
18O2 PFHxS	*93*		*50 - 150*
13C4 PFHpA	*97*		*50 - 150*
13C4 PFOA	*101*		*50 - 150*
13C4 PFOS	*97*		*50 - 150*
13C5 PFNA	*97*		*50 - 150*
13C4 PFBA	*77*		*25 - 150*
13C2 PFHxA	*99*		*50 - 150*
13C2 PFDA	*96*		*50 - 150*
13C2 PFUnA	*85*		*50 - 150*
13C2 PFDoA	*87*		*50 - 150*
13C8 FOSA	*83*		*25 - 150*
13C5 PFPeA	*95*		*25 - 150*
13C2 PFTeDA	*86*		*50 - 150*
d3-NMeFOSAA	*88*		*50 - 150*
d5-NEtFOSAA	*91*		*50 - 150*

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

Lab Sample ID: 480-186439-4 MSD
Matrix: Water
Analysis Batch: 168576

Client Sample ID: 282109-MW-2-062121
Prep Type: Total/NA
Prep Batch: 168535

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-6:2 FTS	*102*		*25 - 150*
M2-8:2 FTS	*103*		*25 - 150*
13C3 PFBS	*93*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-586928/1-A
Matrix: Water
Analysis Batch: 587193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/25/21 09:57	06/25/21 21:51	1
Antimony	ND		0.020	0.0068	mg/L		06/25/21 09:57	06/25/21 21:51	1
Arsenic	ND		0.015	0.0056	mg/L		06/25/21 09:57	06/25/21 21:51	1
Barium	ND	^6+	0.0020	0.00070	mg/L		06/25/21 09:57	06/25/21 21:51	1
Beryllium	ND		0.0020	0.00030	mg/L		06/25/21 09:57	06/25/21 21:51	1
Cadmium	ND		0.0020	0.00050	mg/L		06/25/21 09:57	06/25/21 21:51	1
Calcium	ND		0.50	0.10	mg/L		06/25/21 09:57	06/25/21 21:51	1
Chromium	ND		0.0040	0.0010	mg/L		06/25/21 09:57	06/25/21 21:51	1
Cobalt	ND		0.0040	0.00063	mg/L		06/25/21 09:57	06/25/21 21:51	1
Copper	ND		0.010	0.0016	mg/L		06/25/21 09:57	06/25/21 21:51	1
Iron	ND		0.050	0.019	mg/L		06/25/21 09:57	06/25/21 21:51	1
Lead	ND		0.010	0.0030	mg/L		06/25/21 09:57	06/25/21 21:51	1
Magnesium	ND		0.20	0.043	mg/L		06/25/21 09:57	06/25/21 21:51	1
Manganese	0.000580	J	0.0030	0.00040	mg/L		06/25/21 09:57	06/25/21 21:51	1
Nickel	ND		0.010	0.0013	mg/L		06/25/21 09:57	06/25/21 21:51	1
Selenium	ND		0.025	0.0087	mg/L		06/25/21 09:57	06/25/21 21:51	1
Silver	ND		0.0060	0.0017	mg/L		06/25/21 09:57	06/25/21 21:51	1
Sodium	ND		1.0	0.32	mg/L		06/25/21 09:57	06/25/21 21:51	1
Thallium	ND		0.020	0.010	mg/L		06/25/21 09:57	06/25/21 21:51	1
Vanadium	ND		0.0050	0.0015	mg/L		06/25/21 09:57	06/25/21 21:51	1
Zinc	ND		0.010	0.0015	mg/L		06/25/21 09:57	06/25/21 21:51	1

Lab Sample ID: MB 480-586928/1-A
Matrix: Water
Analysis Batch: 587400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.131	J	0.50	0.10	mg/L		06/25/21 09:57	06/28/21 15:17	1

Lab Sample ID: LCS 480-586928/2-A
Matrix: Water
Analysis Batch: 587193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.65		mg/L		106	80 - 120
Antimony	0.200	0.232		mg/L		116	80 - 120
Arsenic	0.200	0.219		mg/L		109	80 - 120
Barium	0.200	0.237	^6+	mg/L		119	80 - 120
Beryllium	0.200	0.216		mg/L		108	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-586928/2-A
Matrix: Water
Analysis Batch: 587193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.200	0.217		mg/L		109	80 - 120
Calcium	10.0	10.45		mg/L		105	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Cobalt	0.200	0.206		mg/L		103	80 - 120
Copper	0.200	0.209		mg/L		104	80 - 120
Iron	10.0	9.96		mg/L		100	80 - 120
Lead	0.200	0.205		mg/L		103	80 - 120
Magnesium	10.0	10.37		mg/L		104	80 - 120
Manganese	0.200	0.215		mg/L		107	80 - 120
Nickel	0.200	0.205		mg/L		102	80 - 120
Selenium	0.200	0.210		mg/L		105	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120
Sodium	10.0	10.88		mg/L		109	80 - 120
Thallium	0.200	0.210		mg/L		105	80 - 120
Vanadium	0.200	0.213		mg/L		106	80 - 120
Zinc	0.200	0.207		mg/L		103	80 - 120

Lab Sample ID: LCS 480-586928/2-A
Matrix: Water
Analysis Batch: 587400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.08		mg/L		101	80 - 120

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-586907/28
Matrix: Water
Analysis Batch: 586907

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			06/24/21 17:33	1

Lab Sample ID: MB 480-586907/4
Matrix: Water
Analysis Batch: 586907

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0271	J	0.050	0.020	mg/L			06/24/21 17:06	1

Lab Sample ID: LCS 480-586907/29
Matrix: Water
Analysis Batch: 586907

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.55		mg/L		103	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 480-586907/5
Matrix: Water
Analysis Batch: 586907

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.52		mg/L		101	90 - 110

Lab Sample ID: 480-186439-5 MS
Matrix: Water
Analysis Batch: 586907

Client Sample ID: EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		1.00	1.02		mg/L		102	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-587790/28
Matrix: Water
Analysis Batch: 587790

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/30/21 06:24	1

Lab Sample ID: LCS 480-587790/29
Matrix: Water
Analysis Batch: 587790

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	62.19		mg/L		104	90 - 110

Method: D516-90, 02 - Sulfate

Lab Sample ID: MB 480-587087/49
Matrix: Water
Analysis Batch: 587087

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			06/25/21 18:25	1

Lab Sample ID: MB 480-587087/79
Matrix: Water
Analysis Batch: 587087

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.5	mg/L			06/25/21 18:39	1

Lab Sample ID: LCS 480-587087/50
Matrix: Water
Analysis Batch: 587087

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	31.02		mg/L		103	90 - 110

Method: D516-90, 02 - Sulfate (Continued)

Lab Sample ID: LCS 480-587087/80
Matrix: Water
Analysis Batch: 587087

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	31.36		mg/L		105	90 - 110		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-587332/8
Matrix: Water
Analysis Batch: 587332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			06/28/21 10:50	1

Lab Sample ID: LCS 480-587332/9
Matrix: Water
Analysis Batch: 587332

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			100	96.78		mg/L		97	90 - 110		

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-587134/3
Matrix: Water
Analysis Batch: 587134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/26/21 14:30	1

Lab Sample ID: LCS 480-587134/4
Matrix: Water
Analysis Batch: 587134

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	2.03		mg/L		102	90 - 110		

Lab Sample ID: 480-186439-5 MS
Matrix: Water
Analysis Batch: 587134

Client Sample ID: EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	ND	HF	1.00	1.03		mg/L		103	70 - 130		

Lab Sample ID: 480-186439-1 DU
Matrix: Water
Analysis Batch: 587134

Client Sample ID: 282109-MW-2B-062321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	0.52	HF	0.531		mg/L		1	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 480-186439-5 DU
Matrix: Water
Analysis Batch: 587134

Client Sample ID: EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		ND		mg/L				NC	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-587085/106
Matrix: Water
Analysis Batch: 587085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:26	1

Lab Sample ID: MB 480-587085/118
Matrix: Water
Analysis Batch: 587085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:36	1

Lab Sample ID: MB 480-587085/55
Matrix: Water
Analysis Batch: 587085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:05	1

Lab Sample ID: MB 480-587085/67
Matrix: Water
Analysis Batch: 587085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:08	1

Lab Sample ID: MB 480-587085/86
Matrix: Water
Analysis Batch: 587085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:16	1

Lab Sample ID: MB 480-587085/96
Matrix: Water
Analysis Batch: 587085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.46	mg/L			06/25/21 17:21	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 480-587085/105
Matrix: Water
Analysis Batch: 587085

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.61		mg/L		102	90 - 110

Lab Sample ID: LCS 480-587085/117
Matrix: Water
Analysis Batch: 587085

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.56		mg/L		102	90 - 110

Lab Sample ID: LCS 480-587085/66
Matrix: Water
Analysis Batch: 587085

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.32		mg/L		101	90 - 110

Lab Sample ID: LCS 480-587085/95
Matrix: Water
Analysis Batch: 587085

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.51		mg/L		102	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-587623/27
Matrix: Water
Analysis Batch: 587623

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Lab Sample ID: MB 480-587623/51
Matrix: Water
Analysis Batch: 587623

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/29/21 16:45	1

Lab Sample ID: LCS 480-587623/28
Matrix: Water
Analysis Batch: 587623

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.80	8.40		mg/L		108	90 - 110

Client: New York State D.E.C.
Job ID: 480-186439-1
Project/Site: Speedy's Cleaners #828109

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 480-587623/52
Matrix: Water
Analysis Batch: 587623

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			7.80	8.00		mg/L		103	90 - 110		

Lab Sample ID: 480-186439-1 DU
Matrix: Water
Analysis Batch: 587623

Client Sample ID: 282109-MW-2B-062321
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	ND			ND		mg/L				NC	20

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

GC/MS VOA

Analysis Batch: 587278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	8260C	
480-186439-5	EB-01	Total/NA	Water	8260C	
MB 480-587278/8	Method Blank	Total/NA	Water	8260C	
LCS 480-587278/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 586964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	3510C	
480-186439-5	EB-01	Total/NA	Water	3510C	
MB 480-586964/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-586964/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 587140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	3510C	
MB 480-587140/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-587140/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 587795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	8270D	587140
MB 480-587140/1-A	Method Blank	Total/NA	Water	8270D	587140
LCS 480-587140/2-A	Lab Control Sample	Total/NA	Water	8270D	587140

Analysis Batch: 587933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	8270D SIM ID	586964
480-186439-5	EB-01	Total/NA	Water	8270D SIM ID	586964
MB 480-586964/1-A	Method Blank	Total/NA	Water	8270D SIM ID	586964
LCS 480-586964/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	586964

GC Semi VOA

Prep Batch: 587053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	3510C	
MB 480-587053/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-587053/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-587053/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 587219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	8081B	587053
MB 480-587053/1-A	Method Blank	Total/NA	Water	8081B	587053
LCS 480-587053/2-A	Lab Control Sample	Total/NA	Water	8081B	587053
LCSD 480-587053/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	587053

Prep Batch: 588013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 588013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-588013/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-588013/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 588119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	8082A	588013
MB 480-588013/1-A	Method Blank	Total/NA	Water	8082A	588013
LCS 480-588013/2-A	Lab Control Sample	Total/NA	Water	8082A	588013

LCMS

Prep Batch: 168535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-2	282109-MW-6-062221	Total/NA	Water	3535	
480-186439-3	282109-MW-906-062221	Total/NA	Water	3535	
480-186439-4	282109-MW-2-062121	Total/NA	Water	3535	
480-186439-5	EB-01	Total/NA	Water	3535	
MB 200-168535/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-168535/2-A	Lab Control Sample	Total/NA	Water	3535	
480-186439-4 MS	282109-MW-2-062121	Total/NA	Water	3535	
480-186439-4 MSD	282109-MW-2-062121	Total/NA	Water	3535	

Analysis Batch: 168576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-2	282109-MW-6-062221	Total/NA	Water	537 (modified)	168535
480-186439-3	282109-MW-906-062221	Total/NA	Water	537 (modified)	168535
480-186439-4	282109-MW-2-062121	Total/NA	Water	537 (modified)	168535
480-186439-5	EB-01	Total/NA	Water	537 (modified)	168535
MB 200-168535/1-A	Method Blank	Total/NA	Water	537 (modified)	168535
LCS 200-168535/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	168535
480-186439-4 MS	282109-MW-2-062121	Total/NA	Water	537 (modified)	168535
480-186439-4 MSD	282109-MW-2-062121	Total/NA	Water	537 (modified)	168535

Metals

Prep Batch: 586928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	3005A	
MB 480-586928/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-586928/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 587193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-5	EB-01	Total/NA	Water	6010C	586928
MB 480-586928/1-A	Method Blank	Total/NA	Water	6010C	586928
LCS 480-586928/2-A	Lab Control Sample	Total/NA	Water	6010C	586928

Analysis Batch: 587400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-586928/1-A	Method Blank	Total/NA	Water	6010C	586928
LCS 480-586928/2-A	Lab Control Sample	Total/NA	Water	6010C	586928

General Chemistry

Analysis Batch: 586907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	353.2	
480-186439-5	EB-01	Total/NA	Water	353.2	
MB 480-586907/28	Method Blank	Total/NA	Water	353.2	
MB 480-586907/4	Method Blank	Total/NA	Water	353.2	
LCS 480-586907/29	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-586907/5	Lab Control Sample	Total/NA	Water	353.2	
480-186439-5 MS	EB-01	Total/NA	Water	353.2	

Analysis Batch: 586919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	Nitrate by calc	
480-186439-5	EB-01	Total/NA	Water	Nitrate by calc	

Analysis Batch: 586920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	353.2	
480-186439-5	EB-01	Total/NA	Water	353.2	

Analysis Batch: 587085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	SM 4500 Cl- E	
480-186439-5	EB-01	Total/NA	Water	SM 4500 Cl- E	
MB 480-587085/106	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-587085/118	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-587085/55	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-587085/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-587085/86	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-587085/96	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-587085/105	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-587085/117	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-587085/66	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-587085/95	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 587087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	D516-90, 02	
480-186439-5	EB-01	Total/NA	Water	D516-90, 02	
MB 480-587087/49	Method Blank	Total/NA	Water	D516-90, 02	
MB 480-587087/79	Method Blank	Total/NA	Water	D516-90, 02	
LCS 480-587087/50	Lab Control Sample	Total/NA	Water	D516-90, 02	
LCS 480-587087/80	Lab Control Sample	Total/NA	Water	D516-90, 02	

Analysis Batch: 587134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	SM 3500 FE D	
480-186439-5	EB-01	Total/NA	Water	SM 3500 FE D	
MB 480-587134/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-587134/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-186439-5 MS	EB-01	Total/NA	Water	SM 3500 FE D	
480-186439-1 DU	282109-MW-2B-062321	Total/NA	Water	SM 3500 FE D	
480-186439-5 DU	EB-01	Total/NA	Water	SM 3500 FE D	

QC Association Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

General Chemistry

Analysis Batch: 587332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	SM 2320B	
480-186439-5	EB-01	Total/NA	Water	SM 2320B	
MB 480-587332/8	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-587332/9	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 587623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	SM 4500 S2 F	
480-186439-5	EB-01	Total/NA	Water	SM 4500 S2 F	
MB 480-587623/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-587623/51	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-587623/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-587623/52	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-186439-1 DU	282109-MW-2B-062321	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 587790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186439-1	282109-MW-2B-062321	Total/NA	Water	9060A	
480-186439-5	EB-01	Total/NA	Water	9060A	
MB 480-587790/28	Method Blank	Total/NA	Water	9060A	
LCS 480-587790/29	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: 282109-MW-2B-062321
Lab Sample ID: 480-186439-1
Date Collected: 06/23/21 10:00
Matrix: Water
Date Received: 06/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	587278	06/29/21 05:00	CRL	TAL BUF
Total/NA	Prep	3510C			586964	06/25/21 08:43	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587933	07/03/21 00:40	RJS	TAL BUF
Total/NA	Analysis	353.2		1	586907	06/24/21 17:30	ALT	TAL BUF
Total/NA	Analysis	353.2		1	586920	06/24/21 17:30	ALT	TAL BUF
Total/NA	Analysis	9060A		1	587790	06/30/21 13:59	CLA	TAL BUF
Total/NA	Analysis	D516-90, 02		1	587087	06/25/21 19:12	SRW	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586919	06/24/21 17:30	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	587332	06/28/21 12:16	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	587134	06/26/21 14:30	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		20	587085	06/25/21 17:56	SRW	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587623	06/29/21 16:45	SRA	TAL BUF

Client Sample ID: 282109-MW-6-062221
Lab Sample ID: 480-186439-2
Date Collected: 06/22/21 09:05
Matrix: Water
Date Received: 06/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 19:41	BWC	TAL BUR

Client Sample ID: 282109-MW-906-062221
Lab Sample ID: 480-186439-3
Date Collected: 06/22/21 09:10
Matrix: Water
Date Received: 06/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 19:49	BWC	TAL BUR

Client Sample ID: 282109-MW-2-062121
Lab Sample ID: 480-186439-4
Date Collected: 06/21/21 14:30
Matrix: Water
Date Received: 06/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 19:57	BWC	TAL BUR

Client Sample ID: EB-01
Lab Sample ID: 480-186439-5
Date Collected: 06/23/21 10:15
Matrix: Water
Date Received: 06/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587278	06/29/21 05:23	CRL	TAL BUF
Total/NA	Prep	3510C			587140	06/27/21 09:30	JMP	TAL BUF
Total/NA	Analysis	8270D		1	587795	07/02/21 13:14	PJQ	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Client Sample ID: EB-01

Date Collected: 06/23/21 10:15
Date Received: 06/24/21 08:00

Lab Sample ID: 480-186439-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			586964	06/25/21 08:43	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	587933	07/03/21 01:03	RJS	TAL BUF
Total/NA	Prep	3510C			587053	06/25/21 15:00	ATG	TAL BUF
Total/NA	Analysis	8081B		1	587219	06/28/21 18:29	JLS	TAL BUF
Total/NA	Prep	3510C			588013	07/03/21 08:50	JMP	TAL BUF
Total/NA	Analysis	8082A		1	588119	07/06/21 16:58	NC	TAL BUF
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 20:31	BWC	TAL BUR
Total/NA	Prep	3005A			586928	06/25/21 09:57	ADM	TAL BUF
Total/NA	Analysis	6010C		1	587193	06/25/21 23:59	AMH	TAL BUF
Total/NA	Analysis	353.2		1	586907	06/24/21 17:35	ALT	TAL BUF
Total/NA	Analysis	353.2		1	586920	06/24/21 17:35	ALT	TAL BUF
Total/NA	Analysis	9060A		1	587790	06/30/21 14:29	CLA	TAL BUF
Total/NA	Analysis	D516-90, 02		1	587087	06/25/21 18:40	SRW	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	586919	06/24/21 17:35	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	587332	06/28/21 12:20	KEB	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	587134	06/26/21 14:30	CSS	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	587085	06/25/21 17:25	SRW	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	587623	06/29/21 16:45	SRA	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-186439-1
Project/Site: Speedy's Cleaners #828109

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	08-02-21

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

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-16-21

Method Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
D516-90, 02	Sulfate	ASTM	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: New York State D.E.C.
Project/Site: Speedy's Cleaners #828109

Job ID: 480-186439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-186439-1	282109-MW-2B-062321	Water	06/23/21 10:00	06/24/21 08:00
480-186439-2	282109-MW-6-062221	Water	06/22/21 09:05	06/24/21 08:00
480-186439-3	282109-MW-906-062221	Water	06/22/21 09:10	06/24/21 08:00
480-186439-4	282109-MW-2-062121	Water	06/21/21 14:30	06/24/21 08:00
480-186439-5	EB-01	Water	06/23/21 10:15	06/24/21 08:00

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

PFAS → BVT From Syr-RE

Chain of Custody Record

eurofins | Environment Testing America

Syracuse

Client Information	Sampler: LDM Smith	Lab PM: Johnson, Orlette S	Carrier Tracking No(s): #225	COC No: 480-162178-35622.2
Client Contact: Charles Gregory	Phone: 518-698-5446	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: New York State D.E.C.	PWSID:			Job #:
Address: 625 Broadway Division of Environmental Remediation	Due Date Requested:			Preservation Codes: A - HCL
City: Albany	TAT Requested (days): STD			
State, Zip: NY, 12233-7014	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID 140047			
Email: charles.gregory@dec.ny.gov	WO #:			
Project Name: Speedy's Cleaners #828109	Project #: 48023897			
Site:	SSOW#:			

SHORT HOLD

480-186439 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4-Dioxane	SM4500_S2_F - Sulfide, Total	353.2_Nitrite, D516, Nitrate_Calc, SM4500_Cl_E	2320B - Alkalinity	3500_FE_D - Ferrous Iron	PFC_IDA - PFAS, Standard List (21 analytes)	8082A - TCL PCBs	8061B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals		Total Number of containers	Special Instructions/Note:
Preservation Code:							A	A	N	CB	N	N	N	N	N	N	N	D			
828109-GW-MW-2B-062321	6/23/21	1000	G	Water			X	X	X	X	X	X	X							12	
828109-GW-MW-6-062221	6/22/21	905	G	Water										X						2	
828109-GW-MW-906-062221	6/22/21	910	G	Water										X						2	
828109-GW-MW-2-062121	6/21/21	1430	G	Water										X						2	
828109-GW-MW-2-062121-MS	6/21/21	1435	G	Water		X								X						2	
828109-GW-MW-2-062121-MSD	6/21/21	1440	G	Water		X								X						2	
EB-01	6/28/21	1015	G	Water			X	X	X	X	X	X	X	X	X	X	X	X		21	

Other: W - pH 4-5; L - EDA; Z - other (specify)

6/23/21

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 6/23/21 1325	Company: LDM Smith	Received by: RE 11/11/14	Date/Time: 6-23-21, 1325	Company: Syr
Relinquished by: RE 11/11/14	Date/Time: 6-23-21, 1900	Company: Syr	Received by: [illegible]	Date/Time: 06/24/21 800	Company: LT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 # 1 ICE

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

PFAS → BNT. From Syr-Ref

Chain of Custody Record

eurofins | Environment Testing America

Syracuse

Client Information	Sampler: LDM Smith	Lab PM: Johnson, Orlette S	Carrier Tracking No(s): #225	COC No: 480-162178-35622.2
Client Contact: Charles Gregory	Phone: 518-698-5446	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: New York State D.E.C.	PWSID:			Job #:
Address: 625 Broadway Division of Environmental Remediation	Due Date Requested:			
City: Albany	TAT Requested (days): STD			
State, Zip: NY, 12233-7014	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID 140047			
Email: charles.gregory@dec.ny.gov	WO #:			
Project Name: Speedy's Cleaners #828109	Project #: 48023897			
Site:	SSOW#:			

SHORT HOLD

480-186439 Chain of Custody

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	9060A - Organic Carbon, Total (TOC)	8270D_SIM_MS_ID - 1,4	SM4500_S2_F - Sulfide	353.2_Nitrite, D516, Nit	2320B - Alkalinity	3500_FE_D - Ferrous Ir	PFC_IDA - PFAS, Stanc	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C - TAL Metals	Total Number of cor	Special Instructions/Note:
			Preservation Code:				A	A	N	CB	N	N	N	N	N	N	N	D		
828109-GW-MW-2B-062321	6/23/21	1000	G	Water			X	X	X	X	X	X	X						12	
828109-GW-MW-6-062221	6/22/21	905	G	Water										X					2	
828109-GW-MW-906-062221	6/22/21	910	G	Water										X					2	
828109-GW-MW-2-062121	6/21/21	1430	G	Water										X					2	
828109-GW-MW-2-062121-MS	6/21/21	1435	G	Water	X									X					2	
828109-GW-MW-2-062121-MSD	6/21/21	1440	G	Water	X									X					2	
EB-01	6/23/21	1015	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	21	

6/23/21

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6/23/21 1325	Company: LDM Smith	Received by: RT 6/24/21	Date/Time: 6-23-21 1325	Company: Syr
Relinquished by: RT 6/24/21	Date/Time: 6-23-21, 1900	Company: Syr	Received by: Taylor Whitehouse	Date/Time: 6/24/21 1035	Company: EHaun
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020



ORIGIN ID:SYRA (315) 431-0171
SYR SERVICE CENTER
EUROFINS TESTAMERICA
118 BOSS RD

SYRACUSE, NY 13211
UNITED STATES US

SHIP DATE: 23JUN21
ACTWGT: 15.00 LB MAN
CAD: 0883373/CAFE3504

BILL THIRD PARTY

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
530 COMMUNITY DRIVE SUITE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: NYSDEC SPEEDY'S 1COOLER

56DC3/B3B7/6F4D

FedEx Express

J211020121101uv

THU - 24 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 9735 8146 9870

NL BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-186439-1

Login Number: 186439 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM SMITH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-186439-1

Login Number: 186439
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington
List Creation: 06/25/21 08:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1521459
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	1.8ºC
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	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2023 Laboratory Data Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Lia Estrada
CDM Smith Inc
11 British American Blvd
Suite 200
Latham, New York 12110

Generated 5/9/2023 3:58:17 PM

JOB DESCRIPTION

CDM Smith - Speedy's Cleaners

JOB NUMBER

480-207038-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

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 Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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 Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
5/9/2023 3:58:17 PM

Authorized for release by
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 10
Surrogate Summary 49
Isotope Dilution Summary 50
QC Sample Results 53
QC Association Summary 78
Lab Chronicle 80
Certification Summary 83
Method Summary 85
Sample Summary 86
Chain of Custody 87
Receipt Checklists 91

Definitions/Glossary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

Qualifiers

GC/MS VOA

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

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Job ID: 480-207038-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207038-1

Comments
No additional comments.

Receipt
The samples were received on 3/18/2023 9:00 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 3.0º C and 3.3º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: GWS-2-03132023 (480-207038-3) and GWS-902-03132023 (480-207038-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: GWS-3-03132023 (480-207038-2), GWS-2-03132023 (480-207038-3), GWS-902-03132023 (480-207038-4), GWS-5-03132023 (480-207038-7), GWS-5-03132023 (480-207038-7[MS]), GWS-5-03132023 (480-207038-7[MSD]), GWS-6-03132023 (480-207038-8), GWS-7-03132023 (480-207038-9) and GWS-8-03132023 (480-207038-10).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: GWS-1-03162023 (480-207038-11).

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

LCMS
Method 1633: The recovery for the labeled isotope(s) in the following sample: GWS-2-03132023 (480-207038-3) is outside the QC acceptance limits. The following action was taken: this sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits.

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

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

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

Detection Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: TB-03132023 — Lab Sample ID: 480-207038-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.0		1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: GWS-3-03132023 — Lab Sample ID: 480-207038-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.5	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	6.8	J	10	3.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.72	J	1.0	0.36	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	25		8.1	2.0	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	43	I	4.1	1.0	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	23		2.0	0.51	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	2.0		2.0	0.53	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	4.4		2.0	0.65	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	11		2.0	0.30	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	0.99	J I	2.0	0.51	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	1.9	J	2.0	0.58	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	15		2.0	0.51	ng/L	1		1633	Total/NA

Client Sample ID: GWS-2-03132023 — Lab Sample ID: 480-207038-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	91		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	220		5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	21		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0	4.5	ug/L	5		8260C	Total/NA
Perfluorobutanoic acid	140		8.6	2.1	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	73		4.3	1.1	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	66		2.1	0.54	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	17		2.1	0.56	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	47		2.1	0.69	ng/L	1		1633	Total/NA
Perfluorononanoic acid	3.0		2.1	0.54	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	1.4	J	2.1	0.54	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	11		2.1	0.32	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	2.6		2.1	0.54	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	5.7		2.1	0.61	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	29		2.1	0.54	ng/L	1		1633	Total/NA
Perfluorobutanoic acid - DL	130		86	21	ng/L	10		1633	Total/NA
Perfluorohexanoic acid - DL	76	I	21	5.4	ng/L	10		1633	Total/NA
Perfluoroheptanoic acid - DL	20	J	21	5.6	ng/L	10		1633	Total/NA
Perfluorooctanoic acid - DL	41		21	6.9	ng/L	10		1633	Total/NA
Perfluorobutanesulfonic acid - DL	12	J I	21	3.2	ng/L	10		1633	Total/NA
Perfluorooctanesulfonic acid - DL	26		21	5.4	ng/L	10		1633	Total/NA
Perfluorobutanoic acid - RA	150		8.6	2.1	ng/L	1		1633	Total/NA
Perfluoropentanoic acid - RA	100		4.3	1.1	ng/L	1		1633	Total/NA
Perfluorohexanoic acid - RA	73		2.1	0.54	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid - RA	18		2.1	0.56	ng/L	1		1633	Total/NA
Perfluorooctanoic acid - RA	44		2.1	0.69	ng/L	1		1633	Total/NA
Perfluorononanoic acid - RA	3.1		2.1	0.54	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid - RA	12		2.1	0.32	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid - RA	3.3		2.1	0.54	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid - RA	6.3		2.1	0.61	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid - RA	28		2.1	0.54	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: GWS-2-03132023 (Continued) — Lab Sample ID: 480-207038-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid - RE	160	J H I	200	64	ng/L	1		1633	Total/NA

Client Sample ID: GWS-902-03132023 — Lab Sample ID: 480-207038-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	99		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	220		5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	23		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0	4.5	ug/L	5		8260C	Total/NA
Perfluorobutanoic acid	160		8.2	2.1	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	79		4.1	1.0	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	72		2.1	0.51	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	22		2.1	0.53	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	49		2.1	0.66	ng/L	1		1633	Total/NA
Perfluorononanoic acid	3.1		2.1	0.51	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	1.3	J	2.1	0.51	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	14		2.1	0.31	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	3.3		2.1	0.51	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	6.5		2.1	0.59	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid	0.45	J	2.1	0.41	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	28		2.1	0.51	ng/L	1		1633	Total/NA

Client Sample ID: GWS-4-03132023 — Lab Sample ID: 480-207038-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0		1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	7.9		7.8	1.9	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	1.9		1.9	0.49	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	1.0	J	1.9	0.51	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	4.0		1.9	0.62	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.3		1.9	0.29	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	10		1.9	0.49	ng/L	1		1633	Total/NA

Client Sample ID: EB-03132023 — Lab Sample ID: 480-207038-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.9		1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: GWS-5-03132023 — Lab Sample ID: 480-207038-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.64	J	1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.36	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.55	J	1.0	0.16	ug/L	1		8260C	Total/NA
Tetrachloroethene	17		1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	1.2		1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	1.7		1.0	0.46	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	14		8.9	2.2	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	16		4.4	1.1	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	11		2.2	0.55	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	5.3		2.2	0.58	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: GWS-5-03132023 (Continued) — Lab Sample ID: 480-207038-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	12		2.2	0.71	ng/L	1		1633	Total/NA
Perfluorononanoic acid	1.6	J	2.2	0.55	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.8		2.2	0.33	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	0.68	J	2.2	0.63	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	2.1	J	2.2	0.55	ng/L	1		1633	Total/NA

Client Sample ID: GWS-6-03132023 — Lab Sample ID: 480-207038-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.22	J	1.0	0.19	ug/L	1		8260C	Total/NA
Cyclohexane	0.35	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.37	J	1.0	0.16	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	62		8.1	2.0	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	2.2		2.0	0.65	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	7.4		2.0	0.30	ng/L	1		1633	Total/NA

Client Sample ID: GWS-7-03132023 — Lab Sample ID: 480-207038-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.0	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.21	J	1.0	0.19	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	11		8.1	2.0	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	1.0	J I	2.0	0.65	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	6.5		2.0	0.30	ng/L	1		1633	Total/NA

Client Sample ID: GWS-8-03132023 — Lab Sample ID: 480-207038-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.28	J	1.0	0.19	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	11		8.0	2.0	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	1.1	J	2.0	0.64	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	0.86	J	2.0	0.30	ng/L	1		1633	Total/NA

Client Sample ID: GWS-1-03162023 — Lab Sample ID: 480-207038-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.58	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.3		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.23	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.25	J	1.0	0.16	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.8		1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	0.60	J	1.0	0.51	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid	13		9.1	2.3	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	18	I	4.6	1.1	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	17		2.3	0.57	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	5.2		2.3	0.59	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	15		2.3	0.73	ng/L	1		1633	Total/NA
Perfluorononanoic acid	5.7		2.3	0.57	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	2.3		2.3	0.57	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	4.1		2.3	0.34	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	6.3		2.3	0.57	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: EB-03162023

Lab Sample ID: 480-207038-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: TB-03132023
Date Collected: 03/13/23 10:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 13:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 13:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 13:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 13:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 13:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 13:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 13:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 13:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 13:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 13:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 13:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 13:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 13:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 13:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 13:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 13:15	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 13:15	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 13:15	1
Acetone	ND		10	3.0	ug/L			03/21/23 13:15	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 13:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 13:15	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 13:15	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 13:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 13:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 13:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 13:15	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 13:15	1
Chloroform	**2.0**		1.0	0.34	ug/L			03/21/23 13:15	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 13:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 13:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 13:15	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 13:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 13:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 13:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 13:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 13:15	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 13:15	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 13:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 13:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 13:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 13:15	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 13:15	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 13:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 13:15	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 13:15	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 13:15	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 13:15	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: TB-03132023
Date Collected: 03/13/23 10:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 13:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 13:15	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 13:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 13:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 13:15	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 13:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 13:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 13:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*03/21/23 13:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/21/23 13:15*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/21/23 13:15*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-3-03132023
Date Collected: 03/13/23 10:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 13:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 13:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 13:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 13:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 13:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 13:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 13:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 13:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 13:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 13:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 13:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 13:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 13:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 13:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 13:38	1
2-Butanone (MEK)	**1.5**	**J**	10	1.3	ug/L			03/21/23 13:38	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 13:38	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 13:38	1
Acetone	**6.8**	**J**	10	3.0	ug/L			03/21/23 13:38	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 13:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 13:38	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 13:38	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 13:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 13:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 13:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 13:38	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 13:38	1
Chloroform	ND		1.0	0.34	ug/L			03/21/23 13:38	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 13:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 13:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 13:38	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 13:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 13:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 13:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 13:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 13:38	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 13:38	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 13:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 13:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 13:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 13:38	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 13:38	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 13:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 13:38	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 13:38	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 13:38	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 13:38	1

Client Sample ID: GWS-3-03132023
Date Collected: 03/13/23 10:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 13:38	1
Tetrachloroethene	**0.72**	**J**	1.0	0.36	ug/L			03/21/23 13:38	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 13:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 13:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 13:38	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 13:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 13:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 13:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*03/21/23 13:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/21/23 13:38*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/21/23 13:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**25**		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoropentanoic acid	**43**	**I**	4.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorohexanoic acid	**23**		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoroheptanoic acid	**2.0**		2.0	0.53	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorooctanoic acid	**4.4**		2.0	0.65	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorononanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorodecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoroundecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorododecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorotridecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorotetradecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorobutanesulfonic acid	**11**		2.0	0.30	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoropentanesulfonic acid	**0.99**	**J I**	2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorohexanesulfonic acid	**1.9**	**J**	2.0	0.58	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoroheptanesulfonic acid	ND		2.0	0.41	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorooctanesulfonic acid	**15**		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorononanesulfonic acid	ND		2.0	0.41	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorodecanesulfonic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.91	ng/L		03/30/23 16:59	04/14/23 07:13	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.1	1.7	ng/L		03/30/23 16:59	04/14/23 07:13	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.1	2.5	ng/L		03/30/23 16:59	04/14/23 07:13	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.1	2.6	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluorooctanesulfonamide	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
NMeFOSA	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
NMeFOSAA	ND		4.1	1.2	ng/L		03/30/23 16:59	04/14/23 07:13	1
NEtFOSAA	ND		2.0	0.71	ng/L		03/30/23 16:59	04/14/23 07:13	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1	ng/L		03/30/23 16:59	04/14/23 07:13	1

Client Sample ID: GWS-3-03132023
Date Collected: 03/13/23 10:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1	ng/L		03/30/23 16:59	04/14/23 07:13	1
HFPO-DA	ND		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.1	1.5	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoro-3-methoxypropanoic acid	ND		4.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoro(4-methoxybutanoic acid)	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 07:13	1
PFEESA	ND		4.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:13	1
3:3 FTCA	ND		10	1.5	ng/L		03/30/23 16:59	04/14/23 07:13	1
5:3 FTCA	ND		51	10	ng/L		03/30/23 16:59	04/14/23 07:13	1
7:3 FTCA	ND		51	10	ng/L		03/30/23 16:59	04/14/23 07:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C5 PFPeA	*82.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C5 PFHxA	*80.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C4 PFHpA	*71.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C8 PFOA	*88.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C9 PFNA	*89.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C6 PFDA	*77.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C7 PFUnA	*66.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C2-PFDoDA	*58.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C2 PFTeDA	*46.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C3 PFBS	*96.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C3 PFHxS	*77.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C8 PFOS	*77.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C8 FOSA	*83.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
d3-NMeFOSAA	*65.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
d5-NEtFOSAA	*66.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
M2-4:2 FTS	*87.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
M2-6:2 FTS	*83.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
M2-8:2 FTS	*53.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
13C3 HFPO-DA	*70.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
d7-N-MeFOSE-M	*46.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
d9-N-EtFOSE-M	*43.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
d5-NEtPFOSA	*44.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*
d3-NMePFOSA	*48.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:13*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-2-03132023
Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/21/23 14:01	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/21/23 14:01	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/21/23 14:01	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/21/23 14:01	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/21/23 14:01	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/21/23 14:01	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/21/23 14:01	5
1,2,4-Trimethylbenzene	ND		5.0	3.8	ug/L			03/21/23 14:01	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/21/23 14:01	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/21/23 14:01	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/21/23 14:01	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/21/23 14:01	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/21/23 14:01	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			03/21/23 14:01	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/21/23 14:01	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/21/23 14:01	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/21/23 14:01	5
2-Hexanone	ND		25	6.2	ug/L			03/21/23 14:01	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			03/21/23 14:01	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/21/23 14:01	5
Acetone	ND		50	15	ug/L			03/21/23 14:01	5
Benzene	ND		5.0	2.1	ug/L			03/21/23 14:01	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/21/23 14:01	5
Bromoform	ND		5.0	1.3	ug/L			03/21/23 14:01	5
Bromomethane	ND		5.0	3.5	ug/L			03/21/23 14:01	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/21/23 14:01	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/21/23 14:01	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/21/23 14:01	5
Chloroethane	ND		5.0	1.6	ug/L			03/21/23 14:01	5
Chloroform	ND		5.0	1.7	ug/L			03/21/23 14:01	5
Chloromethane	ND		5.0	1.8	ug/L			03/21/23 14:01	5
cis-1,2-Dichloroethene	**91**		5.0	4.1	ug/L			03/21/23 14:01	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/21/23 14:01	5
Cyclohexane	ND		5.0	0.90	ug/L			03/21/23 14:01	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/21/23 14:01	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/21/23 14:01	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/21/23 14:01	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/21/23 14:01	5
m,p-Xylene	ND		10	3.3	ug/L			03/21/23 14:01	5
Methyl acetate	ND		13	6.5	ug/L			03/21/23 14:01	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/21/23 14:01	5
Methylcyclohexane	ND		5.0	0.80	ug/L			03/21/23 14:01	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/21/23 14:01	5
Naphthalene	ND		5.0	2.2	ug/L			03/21/23 14:01	5
n-Butylbenzene	ND		5.0	3.2	ug/L			03/21/23 14:01	5
N-Propylbenzene	ND		5.0	3.5	ug/L			03/21/23 14:01	5
o-Xylene	ND		5.0	3.8	ug/L			03/21/23 14:01	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			03/21/23 14:01	5
Styrene	ND		5.0	3.7	ug/L			03/21/23 14:01	5

Client Sample ID: GWS-2-03132023

Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	4.1	ug/L			03/21/23 14:01	5
Tetrachloroethene	**220**		5.0	1.8	ug/L			03/21/23 14:01	5
Toluene	ND		5.0	2.6	ug/L			03/21/23 14:01	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/21/23 14:01	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/21/23 14:01	5
Trichloroethene	**21**		5.0	2.3	ug/L			03/21/23 14:01	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/21/23 14:01	5
Vinyl chloride	**16**		5.0	4.5	ug/L			03/21/23 14:01	5
Xylenes, Total	ND		10	3.3	ug/L			03/21/23 14:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*03/21/23 14:01*	*5*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/21/23 14:01*	*5*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/21/23 14:01*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**140**		8.6	2.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoropentanoic acid	**73**		4.3	1.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorohexanoic acid	**66**		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoroheptanoic acid	**17**		2.1	0.56	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorooctanoic acid	**47**		2.1	0.69	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorononanoic acid	**3.0**		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorodecanoic acid	**1.4**	**J**	2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoroundecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorododecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorotridecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorotetradecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorobutanesulfonic acid	**11**		2.1	0.32	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoropentanesulfonic acid	**2.6**		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorohexanesulfonic acid	**5.7**		2.1	0.61	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoroheptanesulfonic acid	ND		2.1	0.43	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorooctanesulfonic acid	**29**		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorononanesulfonic acid	ND		2.1	0.43	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorodecanesulfonic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	0.97	ng/L		03/30/23 16:59	04/14/23 07:26	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.6	1.8	ng/L		03/30/23 16:59	04/14/23 07:26	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.6	2.7	ng/L		03/30/23 16:59	04/14/23 07:26	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.6	2.8	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluorooctanesulfonamide	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
NMeFOSA	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.1	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
NMeFOSAA	ND		4.3	1.3	ng/L		03/30/23 16:59	04/14/23 07:26	1
NEtFOSAA	ND		2.1	0.75	ng/L		03/30/23 16:59	04/14/23 07:26	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.4	ng/L		03/30/23 16:59	04/14/23 07:26	1

Client Sample ID: GWS-2-03132023

Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.4	ng/L		03/30/23 16:59	04/14/23 07:26	1
HFPO-DA	ND		8.6	2.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.6	1.6	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoro-3-methoxypropanoic acid	ND		4.3	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoro(4-methoxybutanoic acid)	ND		4.3	1.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.3	1.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.6	1.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.6	2.1	ng/L		03/30/23 16:59	04/14/23 07:26	1
PFEESA	ND		4.3	0.54	ng/L		03/30/23 16:59	04/14/23 07:26	1
3:3 FTCA	ND		11	1.6	ng/L		03/30/23 16:59	04/14/23 07:26	1
5:3 FTCA	ND		54	11	ng/L		03/30/23 16:59	04/14/23 07:26	1
7:3 FTCA	ND		54	11	ng/L		03/30/23 16:59	04/14/23 07:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*79.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C5 PFPeA	*93.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C5 PFHxA	*67.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C4 PFHpA	*70.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C8 PFOA	*72.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C9 PFNA	*71.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C6 PFDA	*68.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C7 PFUnA	*45.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C2-PFDoDA	*34.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C2 PFTeDA	*22.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C3 PFBS	*105*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C3 PFHxS	*88.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C8 PFOS	*69.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C8 FOSA	*62.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
d3-NMeFOSAA	*58.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
d5-NEtFOSAA	*51.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
M2-4:2 FTS	*112*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
M2-6:2 FTS	*88.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
M2-8:2 FTS	*76.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
13C3 HFPO-DA	*66.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
d7-N-MeFOSE-M	*21.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
d9-N-EtFOSE-M	*18.5*	*5-	*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
d5-NEtPFOSA	*11.3*	*5-	*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*
d3-NMePFOSA	*16.6*	*5-	*20 - 150*	*03/30/23 16:59*	*04/14/23 07:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**130**		86	21	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoropentanoic acid	ND		43	11	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorohexanoic acid	**76**	**I**	21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoroheptanoic acid	**20**	**J**	21	5.6	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorooctanoic acid	**41**		21	6.9	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorononanoic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10

Client Sample ID: GWS-2-03132023
Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoroundecanoic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorododecanoic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorotridecanoic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorotetradecanoic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorobutanesulfonic acid	**12**	**J I**	21	3.2	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoropentanesulfonic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorohexanesulfonic acid	ND		21	6.1	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoroheptanesulfonic acid	ND		21	4.3	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorooctanesulfonic acid	**26**		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorononanesulfonic acid	ND		21	4.3	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorodecanesulfonic acid	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorododecanesulfonic acid (PFDoS)	ND		21	9.7	ng/L		03/30/23 16:59	04/23/23 21:36	10
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		86	18	ng/L		03/30/23 16:59	04/23/23 21:36	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		86	27	ng/L		03/30/23 16:59	04/23/23 21:36	10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		86	28	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluorooctanesulfonamide	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
NMeFOSA	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
N-ethylperfluoro-1-octanesulfonamide	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
NMeFOSAA	ND		43	13	ng/L		03/30/23 16:59	04/23/23 21:36	10
NEtFOSAA	ND		21	7.5	ng/L		03/30/23 16:59	04/23/23 21:36	10
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		210	54	ng/L		03/30/23 16:59	04/23/23 21:36	10
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		210	54	ng/L		03/30/23 16:59	04/23/23 21:36	10
HFPO-DA	ND		86	21	ng/L		03/30/23 16:59	04/23/23 21:36	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		86	16	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoro-3-methoxypropanoic acid	ND		43	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoro(4-methoxybutanoic acid)	ND		43	11	ng/L		03/30/23 16:59	04/23/23 21:36	10
Perfluoro-3,6-dioxaheptanoic acid	ND		43	11	ng/L		03/30/23 16:59	04/23/23 21:36	10
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		86	11	ng/L		03/30/23 16:59	04/23/23 21:36	10
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		86	21	ng/L		03/30/23 16:59	04/23/23 21:36	10
PFEESA	ND		43	5.4	ng/L		03/30/23 16:59	04/23/23 21:36	10
3:3 FTCA	ND		110	16	ng/L		03/30/23 16:59	04/23/23 21:36	10
5:3 FTCA	ND		540	110	ng/L		03/30/23 16:59	04/23/23 21:36	10
7:3 FTCA	ND		540	110	ng/L		03/30/23 16:59	04/23/23 21:36	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*82.7*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:36*	*10*
13C5 PFPeA	*77.0*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:36*	*10*
13C5 PFHxA	*77.3*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:36*	*10*
13C4 PFHpA	*62.4*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:36*	*10*
13C8 PFOA	*99.4*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:36*	*10*
13C9 PFNA	*74.7*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:36*	*10*

Client Sample ID: GWS-2-03132023
Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	70.8		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C7 PFUnA	51.4		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C2-PFDoDA	40.8		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C2 PFTeDA	27.7		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C3 PFBS	87.3		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C3 PFHxS	88.0		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C8 PFOS	80.7		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C8 FOSA	72.3		20 - 150	03/30/23 16:59	04/23/23 21:36	10
d3-NMeFOSAA	62.5		20 - 150	03/30/23 16:59	04/23/23 21:36	10
d5-NEtFOSAA	51.6		20 - 150	03/30/23 16:59	04/23/23 21:36	10
M2-4:2 FTS	80.4		20 - 150	03/30/23 16:59	04/23/23 21:36	10
M2-6:2 FTS	79.7		20 - 150	03/30/23 16:59	04/23/23 21:36	10
M2-8:2 FTS	72.9		20 - 150	03/30/23 16:59	04/23/23 21:36	10
13C3 HFPO-DA	78.5		20 - 150	03/30/23 16:59	04/23/23 21:36	10
d7-N-MeFOSE-M	22.6		20 - 150	03/30/23 16:59	04/23/23 21:36	10
d9-N-EtFOSE-M	21.7		20 - 150	03/30/23 16:59	04/23/23 21:36	10
d5-NEtPFOSA	15.3	*5-	20 - 150	03/30/23 16:59	04/23/23 21:36	10
d3-NMePFOSA	17.9	*5-	20 - 150	03/30/23 16:59	04/23/23 21:36	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**150**		8.6	2.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoropentanoic acid	**100**		4.3	1.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorohexanoic acid	**73**		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoroheptanoic acid	**18**		2.1	0.56	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorooctanoic acid	**44**		2.1	0.69	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorononanoic acid	**3.1**		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorodecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoroundecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorododecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorotridecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorotetradecanoic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorobutanesulfonic acid	**12**		2.1	0.32	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoropentanesulfonic acid	**3.3**		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorohexanesulfonic acid	**6.3**		2.1	0.61	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoroheptanesulfonic acid	ND		2.1	0.43	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorooctanesulfonic acid	**28**		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorononanesulfonic acid	ND		2.1	0.43	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorodecanesulfonic acid	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	0.97	ng/L		03/30/23 16:59	04/23/23 21:23	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.6	1.8	ng/L		03/30/23 16:59	04/23/23 21:23	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.6	2.7	ng/L		03/30/23 16:59	04/23/23 21:23	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.6	2.8	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluorooctanesulfonamide	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
NMeFOSA	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.1	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
NMeFOSAA	ND		4.3	1.3	ng/L		03/30/23 16:59	04/23/23 21:23	1

Client Sample ID: GWS-2-03132023
Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	ND		2.1	0.75	ng/L		03/30/23 16:59	04/23/23 21:23	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:23	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.4	ng/L		03/30/23 16:59	04/23/23 21:23	1
HFPO-DA	ND		8.6	2.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.6	1.6	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoro-3-methoxypropanoic acid	ND		4.3	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoro(4-methoxybutanoic acid)	ND		4.3	1.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.3	1.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.6	1.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.6	2.1	ng/L		03/30/23 16:59	04/23/23 21:23	1
PFEESA	ND		4.3	0.54	ng/L		03/30/23 16:59	04/23/23 21:23	1
3:3 FTCA	ND		11	1.6	ng/L		03/30/23 16:59	04/23/23 21:23	1
5:3 FTCA	ND		54	11	ng/L		03/30/23 16:59	04/23/23 21:23	1
7:3 FTCA	ND		54	11	ng/L		03/30/23 16:59	04/23/23 21:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*73.8*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C5 PFPeA	*85.6*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C5 PFHxA	*72.6*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C4 PFHpA	*65.7*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C8 PFOA	*92.8*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C9 PFNA	*73.2*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C6 PFDA	*67.2*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C7 PFUnA	*46.3*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C2-PFDoDA	*35.5*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C2 PFTeDA	*23.3*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C3 PFBS	*92.8*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C3 PFHxS	*80.8*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C8 PFOS	*76.3*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C8 FOSA	*76.2*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
d3-NMeFOSAA	*51.9*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
d5-NEtFOSAA	*51.5*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
M2-4:2 FTS	*106*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
M2-6:2 FTS	*113*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
M2-8:2 FTS	*89.5*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
13C3 HFPO-DA	*71.1*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
d7-N-MeFOSE-M	*23.6*		*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
d9-N-EtFOSE-M	*19.9*	**5-*	*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
d5-NEtPFOSA	*12.4*	**5-*	*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*
d3-NMePFOSA	*19.6*	**5-*	*20 - 150*	*03/30/23 16:59*	*04/23/23 21:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	H	800	200	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoropentanoic acid	ND	H	400	100	ng/L		04/26/23 17:29	05/04/23 21:30	1

Client Sample ID: GWS-2-03132023
Date Collected: 03/13/23 11:20
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoroheptanoic acid	ND	H	200	52	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorooctanoic acid	**160**	**J H I**	200	64	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorononanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorodecanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoroundecanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorododecanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorotridecanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorotetradecanoic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorobutanesulfonic acid	ND	H	200	30	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoropentanesulfonic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorohexanesulfonic acid	ND	H	200	57	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoroheptanesulfonic acid	ND	H	200	40	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorooctanesulfonic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorononanesulfonic acid	ND	H	200	40	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorodecanesulfonic acid	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	200	90	ng/L		04/26/23 17:29	05/04/23 21:30	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	H	800	170	ng/L		04/26/23 17:29	05/04/23 21:30	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	H	800	250	ng/L		04/26/23 17:29	05/04/23 21:30	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	H	800	260	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluorooctanesulfonamide	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
NMeFOSA	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
N-ethylperfluoro-1-octanesulfonamide	ND	H	200	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
NMeFOSAA	ND	H	400	120	ng/L		04/26/23 17:29	05/04/23 21:30	1
NEtFOSAA	ND	H	200	70	ng/L		04/26/23 17:29	05/04/23 21:30	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	H	2000	500	ng/L		04/26/23 17:29	05/04/23 21:30	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	H	2000	500	ng/L		04/26/23 17:29	05/04/23 21:30	1
HFPO-DA	ND	H	800	200	ng/L		04/26/23 17:29	05/04/23 21:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	H	800	150	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoro-3-methoxypropanoic acid	ND	H	400	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoro(4-methoxybutanoic acid)	ND	H	400	100	ng/L		04/26/23 17:29	05/04/23 21:30	1
Perfluoro-3,6-dioxaheptanoic acid	ND	H	400	100	ng/L		04/26/23 17:29	05/04/23 21:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	H	800	100	ng/L		04/26/23 17:29	05/04/23 21:30	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	H	800	200	ng/L		04/26/23 17:29	05/04/23 21:30	1
PFEESA	ND	H	400	50	ng/L		04/26/23 17:29	05/04/23 21:30	1
3:3 FTCA	ND	H	1000	150	ng/L		04/26/23 17:29	05/04/23 21:30	1
5:3 FTCA	ND	H	5000	1000	ng/L		04/26/23 17:29	05/04/23 21:30	1
7:3 FTCA	ND	H	5000	1000	ng/L		04/26/23 17:29	05/04/23 21:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92.0*		*20 - 150*	*04/26/23 17:29*	*05/04/23 21:30*	*1*
13C5 PFPeA	*85.2*		*20 - 150*	*04/26/23 17:29*	*05/04/23 21:30*	*1*

Client Sample ID: GWS-2-03132023
Lab Sample ID: 480-207038-3
Date Collected: 03/13/23 11:20
Matrix: Water
Date Received: 03/18/23 09:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	91.7		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C4 PFHpA	90.2		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C8 PFOA	97.7		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C9 PFNA	92.4		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C6 PFDA	83.0		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C7 PFUnA	82.2		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C2-PFDoDA	78.4		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C2 PFTeDA	78.0		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C3 PFBS	70.1		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C3 PFHxS	85.0		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C8 PFOS	82.3		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C8 FOSA	85.9		20 - 150	04/26/23 17:29	05/04/23 21:30	1
d3-NMeFOSAA	82.7		20 - 150	04/26/23 17:29	05/04/23 21:30	1
d5-NEtFOSAA	75.6		20 - 150	04/26/23 17:29	05/04/23 21:30	1
M2-4:2 FTS	79.9	I	20 - 150	04/26/23 17:29	05/04/23 21:30	1
M2-6:2 FTS	89.3		20 - 150	04/26/23 17:29	05/04/23 21:30	1
M2-8:2 FTS	65.0		20 - 150	04/26/23 17:29	05/04/23 21:30	1
13C3 HFPO-DA	82.9		20 - 150	04/26/23 17:29	05/04/23 21:30	1
d7-N-MeFOSE-M	70.6		20 - 150	04/26/23 17:29	05/04/23 21:30	1
d9-N-EtFOSE-M	71.6		20 - 150	04/26/23 17:29	05/04/23 21:30	1
d5-NEtPFOSA	60.0		20 - 150	04/26/23 17:29	05/04/23 21:30	1
d3-NMePFOSA	57.6		20 - 150	04/26/23 17:29	05/04/23 21:30	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-902-03132023
Date Collected: 03/13/23 11:25
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/21/23 14:25	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/21/23 14:25	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/21/23 14:25	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/21/23 14:25	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/21/23 14:25	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/21/23 14:25	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/21/23 14:25	5
1,2,4-Trimethylbenzene	ND		5.0	3.8	ug/L			03/21/23 14:25	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/21/23 14:25	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/21/23 14:25	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/21/23 14:25	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/21/23 14:25	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/21/23 14:25	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			03/21/23 14:25	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/21/23 14:25	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/21/23 14:25	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/21/23 14:25	5
2-Hexanone	ND		25	6.2	ug/L			03/21/23 14:25	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			03/21/23 14:25	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/21/23 14:25	5
Acetone	ND		50	15	ug/L			03/21/23 14:25	5
Benzene	ND		5.0	2.1	ug/L			03/21/23 14:25	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/21/23 14:25	5
Bromoform	ND		5.0	1.3	ug/L			03/21/23 14:25	5
Bromomethane	ND		5.0	3.5	ug/L			03/21/23 14:25	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/21/23 14:25	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/21/23 14:25	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/21/23 14:25	5
Chloroethane	ND		5.0	1.6	ug/L			03/21/23 14:25	5
Chloroform	ND		5.0	1.7	ug/L			03/21/23 14:25	5
Chloromethane	ND		5.0	1.8	ug/L			03/21/23 14:25	5
cis-1,2-Dichloroethene	**99**		5.0	4.1	ug/L			03/21/23 14:25	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/21/23 14:25	5
Cyclohexane	ND		5.0	0.90	ug/L			03/21/23 14:25	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/21/23 14:25	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/21/23 14:25	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/21/23 14:25	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/21/23 14:25	5
m,p-Xylene	ND		10	3.3	ug/L			03/21/23 14:25	5
Methyl acetate	ND		13	6.5	ug/L			03/21/23 14:25	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/21/23 14:25	5
Methylcyclohexane	ND		5.0	0.80	ug/L			03/21/23 14:25	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/21/23 14:25	5
Naphthalene	ND		5.0	2.2	ug/L			03/21/23 14:25	5
n-Butylbenzene	ND		5.0	3.2	ug/L			03/21/23 14:25	5
N-Propylbenzene	ND		5.0	3.5	ug/L			03/21/23 14:25	5
o-Xylene	ND		5.0	3.8	ug/L			03/21/23 14:25	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			03/21/23 14:25	5
Styrene	ND		5.0	3.7	ug/L			03/21/23 14:25	5

Client Sample ID: GWS-902-03132023
Date Collected: 03/13/23 11:25
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	4.1	ug/L			03/21/23 14:25	5
Tetrachloroethene	**220**		5.0	1.8	ug/L			03/21/23 14:25	5
Toluene	ND		5.0	2.6	ug/L			03/21/23 14:25	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/21/23 14:25	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/21/23 14:25	5
Trichloroethene	**23**		5.0	2.3	ug/L			03/21/23 14:25	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/21/23 14:25	5
Vinyl chloride	**16**		5.0	4.5	ug/L			03/21/23 14:25	5
Xylenes, Total	ND		10	3.3	ug/L			03/21/23 14:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*03/21/23 14:25*	*5*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*03/21/23 14:25*	*5*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/21/23 14:25*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**160**		8.2	2.1	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoropentanoic acid	**79**		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorohexanoic acid	**72**		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoroheptanoic acid	**22**		2.1	0.53	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorooctanoic acid	**49**		2.1	0.66	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorononanoic acid	**3.1**		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorodecanoic acid	**1.3**	**J**	2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoroundecanoic acid	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorododecanoic acid	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorotridecanoic acid	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorotetradecanoic acid	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorobutanesulfonic acid	**14**		2.1	0.31	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoropentanesulfonic acid	**3.3**		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorohexanesulfonic acid	**6.5**		2.1	0.59	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoroheptanesulfonic acid	**0.45**	**J**	2.1	0.41	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorooctanesulfonic acid	**28**		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorononanesulfonic acid	ND		2.1	0.41	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorodecanesulfonic acid	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	0.92	ng/L		03/30/23 16:59	04/14/23 07:39	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.2	1.7	ng/L		03/30/23 16:59	04/14/23 07:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.2	2.6	ng/L		03/30/23 16:59	04/14/23 07:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.2	2.7	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluorooctanesulfonamide	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
NMeFOSA	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
NMeFOSAA	ND		4.1	1.2	ng/L		03/30/23 16:59	04/14/23 07:39	1
NEtFOSAA	ND		2.1	0.72	ng/L		03/30/23 16:59	04/14/23 07:39	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.1	ng/L		03/30/23 16:59	04/14/23 07:39	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-902-03132023
Date Collected: 03/13/23 11:25
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.1	ng/L		03/30/23 16:59	04/14/23 07:39	1
HFPO-DA	ND		8.2	2.1	ng/L		03/30/23 16:59	04/14/23 07:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.2	1.5	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoro-3-methoxypropanoic acid	ND		4.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoro(4-methoxybutanoic acid)	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:39	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 07:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.2	1.0	ng/L		03/30/23 16:59	04/14/23 07:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.2	2.1	ng/L		03/30/23 16:59	04/14/23 07:39	1
PFEESA	ND		4.1	0.51	ng/L		03/30/23 16:59	04/14/23 07:39	1
3:3 FTCA	ND		10	1.5	ng/L		03/30/23 16:59	04/14/23 07:39	1
5:3 FTCA	ND		51	10	ng/L		03/30/23 16:59	04/14/23 07:39	1
7:3 FTCA	ND		51	10	ng/L		03/30/23 16:59	04/14/23 07:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*65.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C5 PFPeA	*97.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C5 PFHxA	*70.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C4 PFHpA	*60.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C8 PFOA	*78.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C9 PFNA	*67.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C6 PFDA	*68.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C7 PFUnA	*48.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C2-PFDoDA	*37.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C2 PFTeDA	*28.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C3 PFBS	*79.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C3 PFHxS	*78.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C8 PFOS	*73.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C8 FOSA	*69.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
d3-NMeFOSAA	*60.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
d5-NEtFOSAA	*48.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
M2-4:2 FTS	*112*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
M2-6:2 FTS	*72.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
M2-8:2 FTS	*66.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
13C3 HFPO-DA	*65.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
d7-N-MeFOSE-M	*27.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
d9-N-EtFOSE-M	*23.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
d5-NEtPFOSA	*21.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*
d3-NMePFOSA	*27.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:39*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-4-03132023
Date Collected: 03/13/23 12:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 14:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 14:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 14:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 14:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 14:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 14:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 14:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 14:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 14:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 14:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 14:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 14:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 14:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 14:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 14:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 14:48	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 14:48	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 14:48	1
Acetone	ND		10	3.0	ug/L			03/21/23 14:48	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 14:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 14:48	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 14:48	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 14:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 14:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 14:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 14:48	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 14:48	1
Chloroform	**1.0**		1.0	0.34	ug/L			03/21/23 14:48	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 14:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 14:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 14:48	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 14:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 14:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 14:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 14:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 14:48	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 14:48	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 14:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 14:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 14:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 14:48	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 14:48	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 14:48	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 14:48	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 14:48	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 14:48	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 14:48	1

Client Sample ID: GWS-4-03132023
Date Collected: 03/13/23 12:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 14:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 14:48	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 14:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 14:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 14:48	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 14:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 14:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 14:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*		*03/21/23 14:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*03/21/23 14:48*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/21/23 14:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**7.9**		7.8	1.9	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoropentanoic acid	ND		3.9	0.97	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorohexanoic acid	**1.9**		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoroheptanoic acid	**1.0**	**J**	1.9	0.51	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorooctanoic acid	**4.0**		1.9	0.62	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorononanoic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorodecanoic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoroundecanoic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorododecanoic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorotridecanoic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorotetradecanoic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorobutanesulfonic acid	**2.3**		1.9	0.29	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoropentanesulfonic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorohexanesulfonic acid	ND		1.9	0.55	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoroheptanesulfonic acid	ND		1.9	0.39	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorooctanesulfonic acid	**10**		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorononanesulfonic acid	ND		1.9	0.39	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorodecanesulfonic acid	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.88	ng/L		03/30/23 16:59	04/14/23 07:52	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.8	1.7	ng/L		03/30/23 16:59	04/14/23 07:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.8	2.4	ng/L		03/30/23 16:59	04/14/23 07:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.8	2.5	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluorooctanesulfonamide	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
NMeFOSA	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
NMeFOSAA	ND		3.9	1.2	ng/L		03/30/23 16:59	04/14/23 07:52	1
NEtFOSAA	ND		1.9	0.68	ng/L		03/30/23 16:59	04/14/23 07:52	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.9	ng/L		03/30/23 16:59	04/14/23 07:52	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-4-03132023
Date Collected: 03/13/23 12:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.9	ng/L		03/30/23 16:59	04/14/23 07:52	1
HFPO-DA	ND		7.8	1.9	ng/L		03/30/23 16:59	04/14/23 07:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.8	1.5	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoro-3-methoxypropanoic acid	ND		3.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoro(4-methoxybutanoic acid)	ND		3.9	0.97	ng/L		03/30/23 16:59	04/14/23 07:52	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.9	0.97	ng/L		03/30/23 16:59	04/14/23 07:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.8	0.97	ng/L		03/30/23 16:59	04/14/23 07:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.8	1.9	ng/L		03/30/23 16:59	04/14/23 07:52	1
PFEESA	ND		3.9	0.49	ng/L		03/30/23 16:59	04/14/23 07:52	1
3:3 FTCA	ND		9.7	1.5	ng/L		03/30/23 16:59	04/14/23 07:52	1
5:3 FTCA	ND		49	9.7	ng/L		03/30/23 16:59	04/14/23 07:52	1
7:3 FTCA	ND		49	9.7	ng/L		03/30/23 16:59	04/14/23 07:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C5 PFPeA	*74.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C5 PFHxA	*76.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C4 PFHpA	*69.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C8 PFOA	*70.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C9 PFNA	*85.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C6 PFDA	*80.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C7 PFUnA	*69.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C2-PFDoDA	*56.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C2 PFTeDA	*58.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C3 PFBS	*81.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C3 PFHxS	*73.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C8 PFOS	*88.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C8 FOSA	*86.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
d3-NMeFOSAA	*71.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
d5-NEtFOSAA	*75.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
M2-4:2 FTS	*105*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
M2-6:2 FTS	*59.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
M2-8:2 FTS	*64.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
13C3 HFPO-DA	*56.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
d7-N-MeFOSE-M	*57.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
d9-N-EtFOSE-M	*50.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
d5-NEtPFOSA	*33.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*
d3-NMePFOSA	*39.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 07:52*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: EB-03132023

Date Collected: 03/13/23 12:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 15:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 15:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 15:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 15:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 15:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 15:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 15:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 15:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 15:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 15:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 15:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 15:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 15:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 15:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 15:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 15:12	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 15:12	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 15:12	1
Acetone	ND		10	3.0	ug/L			03/21/23 15:12	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 15:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 15:12	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 15:12	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 15:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 15:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 15:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 15:12	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 15:12	1
Chloroform	**1.9**		1.0	0.34	ug/L			03/21/23 15:12	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 15:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 15:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 15:12	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 15:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 15:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 15:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 15:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 15:12	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 15:12	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 15:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 15:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 15:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 15:12	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 15:12	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 15:12	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 15:12	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 15:12	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 15:12	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 15:12	1

Client Sample ID: EB-03132023
Date Collected: 03/13/23 12:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 15:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 15:12	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 15:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 15:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 15:12	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 15:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 15:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 15:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*		*03/21/23 15:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*03/21/23 15:12*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/21/23 15:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		7.2	1.8	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoropentanoic acid	ND		3.6	0.90	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorohexanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoroheptanoic acid	ND		1.8	0.47	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorooctanoic acid	ND		1.8	0.58	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorononanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorodecanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorobutanesulfonic acid	ND		1.8	0.27	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoropentanesulfonic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorohexanesulfonic acid	ND		1.8	0.51	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoroheptanesulfonic acid	ND		1.8	0.36	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorononanesulfonic acid	ND		1.8	0.36	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorodecanesulfonic acid	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.81	ng/L		03/30/23 16:59	04/14/23 08:06	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.2	1.5	ng/L		03/30/23 16:59	04/14/23 08:06	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.2	2.3	ng/L		03/30/23 16:59	04/14/23 08:06	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.2	2.3	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluorooctanesulfonamide	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
NMeFOSA	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
NMeFOSAA	ND		3.6	1.1	ng/L		03/30/23 16:59	04/14/23 08:06	1
NEtFOSAA	ND		1.8	0.63	ng/L		03/30/23 16:59	04/14/23 08:06	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.5	ng/L		03/30/23 16:59	04/14/23 08:06	1

Client Sample ID: EB-03132023
Date Collected: 03/13/23 12:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.5	ng/L		03/30/23 16:59	04/14/23 08:06	1
HFPO-DA	ND		7.2	1.8	ng/L		03/30/23 16:59	04/14/23 08:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.4	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoro-3-methoxypropanoic acid	ND		3.6	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoro(4-methoxybutanoic acid)	ND		3.6	0.90	ng/L		03/30/23 16:59	04/14/23 08:06	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.6	0.90	ng/L		03/30/23 16:59	04/14/23 08:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.2	0.90	ng/L		03/30/23 16:59	04/14/23 08:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.2	1.8	ng/L		03/30/23 16:59	04/14/23 08:06	1
PFEESA	ND		3.6	0.45	ng/L		03/30/23 16:59	04/14/23 08:06	1
3:3 FTCA	ND		9.0	1.4	ng/L		03/30/23 16:59	04/14/23 08:06	1
5:3 FTCA	ND		45	9.0	ng/L		03/30/23 16:59	04/14/23 08:06	1
7:3 FTCA	ND		45	9.0	ng/L		03/30/23 16:59	04/14/23 08:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*85.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C5 PFPeA	*86.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C5 PFHxA	*86.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C4 PFHpA	*79.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C8 PFOA	*83.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C9 PFNA	*85.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C6 PFDA	*81.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C7 PFUnA	*70.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C2-PFDoDA	*67.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C2 PFTeDA	*53.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C3 PFBS	*93.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C3 PFHxS	*88.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C8 PFOS	*78.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C8 FOSA	*80.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
d3-NMeFOSAA	*82.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
d5-NEtFOSAA	*83.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
M2-4:2 FTS	*78.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
M2-6:2 FTS	*82.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
M2-8:2 FTS	*83.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
13C3 HFPO-DA	*73.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
d7-N-MeFOSE-M	*72.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
d9-N-EtFOSE-M	*71.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
d5-NEtPFOSA	*37.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*
d3-NMePFOSA	*40.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:06*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-5-03132023
Date Collected: 03/13/23 13:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 15:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 15:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 15:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 15:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 15:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 15:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 15:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 15:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 15:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 15:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 15:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 15:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 15:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 15:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 15:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 15:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 15:35	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 15:35	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 15:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 15:35	1
Acetone	**3.8**	**J**	10	3.0	ug/L			03/21/23 15:35	1
Benzene	**0.64**	**J**	1.0	0.41	ug/L			03/21/23 15:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 15:35	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 15:35	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 15:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 15:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 15:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 15:35	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 15:35	1
Chloroform	ND		1.0	0.34	ug/L			03/21/23 15:35	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 15:35	1
cis-1,2-Dichloroethene	**14**		1.0	0.81	ug/L			03/21/23 15:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 15:35	1
Cyclohexane	**0.36**	**J**	1.0	0.18	ug/L			03/21/23 15:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 15:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 15:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 15:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 15:35	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 15:35	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 15:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 15:35	1
Methylcyclohexane	**0.55**	**J**	1.0	0.16	ug/L			03/21/23 15:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 15:35	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 15:35	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 15:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 15:35	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 15:35	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 15:35	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 15:35	1

Client Sample ID: GWS-5-03132023
Date Collected: 03/13/23 13:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 15:35	1
Tetrachloroethene	**17**		1.0	0.36	ug/L			03/21/23 15:35	1
Toluene	**1.2**		1.0	0.51	ug/L			03/21/23 15:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 15:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 15:35	1
Trichloroethene	**1.7**		1.0	0.46	ug/L			03/21/23 15:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 15:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 15:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*03/21/23 15:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/21/23 15:35*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/21/23 15:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**14**		8.9	2.2	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoropentanoic acid	**16**		4.4	1.1	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorohexanoic acid	**11**		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoroheptanoic acid	**5.3**		2.2	0.58	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorooctanoic acid	**12**		2.2	0.71	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorononanoic acid	**1.6**	**J**	2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorodecanoic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoroundecanoic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorododecanoic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorotridecanoic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorotetradecanoic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorobutanesulfonic acid	**2.8**		2.2	0.33	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoropentanesulfonic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorohexanesulfonic acid	**0.68**	**J**	2.2	0.63	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoroheptanesulfonic acid	ND		2.2	0.44	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorooctanesulfonic acid	**2.1**	**J**	2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorononanesulfonic acid	ND		2.2	0.44	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorodecanesulfonic acid	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.2	1.0	ng/L		04/05/23 17:22	04/25/23 17:09	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.9	1.9	ng/L		04/05/23 17:22	04/25/23 17:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.9	2.8	ng/L		04/05/23 17:22	04/25/23 17:09	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.9	2.9	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluorooctanesulfonamide	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
NMeFOSA	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.2	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
NMeFOSAA	ND	F1	4.4	1.3	ng/L		04/05/23 17:22	04/25/23 17:09	1
NEtFOSAA	ND	F1	2.2	0.77	ng/L		04/05/23 17:22	04/25/23 17:09	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		22	5.5	ng/L		04/05/23 17:22	04/25/23 17:09	1

Client Sample ID: GWS-5-03132023
Date Collected: 03/13/23 13:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		22	5.5	ng/L		04/05/23 17:22	04/25/23 17:09	1
HFPO-DA	ND		8.9	2.2	ng/L		04/05/23 17:22	04/25/23 17:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.9	1.7	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoro-3-methoxypropanoic acid	ND		4.4	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoro(4-methoxybutanoic acid)	ND		4.4	1.1	ng/L		04/05/23 17:22	04/25/23 17:09	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.4	1.1	ng/L		04/05/23 17:22	04/25/23 17:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.9	1.1	ng/L		04/05/23 17:22	04/25/23 17:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.9	2.2	ng/L		04/05/23 17:22	04/25/23 17:09	1
PFEESA	ND		4.4	0.55	ng/L		04/05/23 17:22	04/25/23 17:09	1
3:3 FTCA	ND		11	1.7	ng/L		04/05/23 17:22	04/25/23 17:09	1
5:3 FTCA	ND		55	11	ng/L		04/05/23 17:22	04/25/23 17:09	1
7:3 FTCA	ND		55	11	ng/L		04/05/23 17:22	04/25/23 17:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*73.0*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C5 PFPeA	*104*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C5 PFHxA	*105*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C4 PFHpA	*98.5*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C8 PFOA	*100*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C9 PFNA	*87.2*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C6 PFDA	*89.6*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C7 PFUnA	*90.1*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C2-PFDoDA	*88.7*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C2 PFTeDA	*80.8*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C3 PFBS	*83.9*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C3 PFHxS	*95.6*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C8 PFOS	*82.0*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C8 FOSA	*86.9*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
d3-NMeFOSAA	*64.5*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
d5-NEtFOSAA	*72.8*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
M2-4:2 FTS	*83.4*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
M2-6:2 FTS	*107*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
M2-8:2 FTS	*73.4*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
13C3 HFPO-DA	*101*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
d7-N-MeFOSE-M	*66.1*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
d9-N-EtFOSE-M	*65.3*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
d5-NEtPFOSA	*51.3*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*
d3-NMePFOSA	*52.9*		*20 - 150*	*04/05/23 17:22*	*04/25/23 17:09*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-6-03132023

Date Collected: 03/13/23 14:15
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 15:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 15:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 15:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 15:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 15:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 15:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 15:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 15:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 15:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 15:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 15:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 15:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 15:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 15:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 15:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 15:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 15:58	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 15:58	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 15:58	1
Acetone	**6.5**	**J**	10	3.0	ug/L			03/21/23 15:58	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 15:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 15:58	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 15:58	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 15:58	1
Carbon disulfide	**0.22**	**J**	1.0	0.19	ug/L			03/21/23 15:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 15:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 15:58	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 15:58	1
Chloroform	ND		1.0	0.34	ug/L			03/21/23 15:58	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 15:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 15:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 15:58	1
Cyclohexane	**0.35**	**J**	1.0	0.18	ug/L			03/21/23 15:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 15:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 15:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 15:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 15:58	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 15:58	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 15:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 15:58	1
Methylcyclohexane	**0.37**	**J**	1.0	0.16	ug/L			03/21/23 15:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 15:58	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 15:58	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 15:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 15:58	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 15:58	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 15:58	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 15:58	1

Client Sample ID: GWS-6-03132023
Date Collected: 03/13/23 14:15
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 15:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 15:58	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 15:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 15:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 15:58	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 15:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 15:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 15:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*03/21/23 15:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/21/23 15:58*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/21/23 15:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**62**		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoropentanoic acid	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorohexanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoroheptanoic acid	ND		2.0	0.53	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorooctanoic acid	**2.2**		2.0	0.65	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorononanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorodecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoroundecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorododecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorotridecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorotetradecanoic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorobutanesulfonic acid	**7.4**		2.0	0.30	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoropentanesulfonic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorohexanesulfonic acid	ND		2.0	0.58	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoroheptanesulfonic acid	ND		2.0	0.41	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorooctanesulfonic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorononanesulfonic acid	ND		2.0	0.41	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorodecanesulfonic acid	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.91	ng/L		03/30/23 16:59	04/14/23 08:19	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.1	1.7	ng/L		03/30/23 16:59	04/14/23 08:19	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.1	2.5	ng/L		03/30/23 16:59	04/14/23 08:19	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.1	2.6	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluorooctanesulfonamide	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
NMeFOSA	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
NMeFOSAA	ND		4.1	1.2	ng/L		03/30/23 16:59	04/14/23 08:19	1
NEtFOSAA	ND		2.0	0.71	ng/L		03/30/23 16:59	04/14/23 08:19	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1	ng/L		03/30/23 16:59	04/14/23 08:19	1

Client Sample ID: GWS-6-03132023
Date Collected: 03/13/23 14:15
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1	ng/L		03/30/23 16:59	04/14/23 08:19	1
HFPO-DA	ND		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.1	1.5	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoro-3-methoxypropanoic acid	ND		4.1	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoro(4-methoxybutanoic acid)	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.1	1.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.1	1.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 08:19	1
PFEESA	ND		4.1	0.51	ng/L		03/30/23 16:59	04/14/23 08:19	1
3:3 FTCA	ND		10	1.5	ng/L		03/30/23 16:59	04/14/23 08:19	1
5:3 FTCA	ND		51	10	ng/L		03/30/23 16:59	04/14/23 08:19	1
7:3 FTCA	ND		51	10	ng/L		03/30/23 16:59	04/14/23 08:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*42.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C5 PFPeA	*85.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C5 PFHxA	*84.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C4 PFHpA	*74.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C8 PFOA	*74.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C9 PFNA	*82.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C6 PFDA	*81.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C7 PFUnA	*62.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C2-PFDoDA	*55.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C2 PFTeDA	*53.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C3 PFBS	*96.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C3 PFHxS	*90.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C8 PFOS	*76.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C8 FOSA	*83.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
d3-NMeFOSAA	*64.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
d5-NEtFOSAA	*59.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
M2-4:2 FTS	*82.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
M2-6:2 FTS	*86.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
M2-8:2 FTS	*71.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
13C3 HFPO-DA	*73.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
d7-N-MeFOSE-M	*47.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
d9-N-EtFOSE-M	*41.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
d5-NEtPFOSA	*28.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*
d3-NMePFOSA	*35.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:19*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-7-03132023
Date Collected: 03/13/23 14:40
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 16:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 16:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 16:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 16:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 16:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 16:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 16:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 16:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 16:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 16:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 16:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 16:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 16:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 16:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 16:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 16:20	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 16:20	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 16:20	1
Acetone	**6.0**	**J**	10	3.0	ug/L			03/21/23 16:20	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 16:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 16:20	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 16:20	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 16:20	1
Carbon disulfide	**0.21**	**J**	1.0	0.19	ug/L			03/21/23 16:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 16:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 16:20	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 16:20	1
Chloroform	ND		1.0	0.34	ug/L			03/21/23 16:20	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 16:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 16:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 16:20	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 16:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 16:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 16:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 16:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 16:20	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 16:20	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 16:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 16:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 16:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 16:20	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 16:20	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 16:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 16:20	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 16:20	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 16:20	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 16:20	1

Client Sample ID: GWS-7-03132023
Date Collected: 03/13/23 14:40
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 16:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 16:20	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 16:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 16:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 16:20	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 16:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 16:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 16:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*03/21/23 16:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/21/23 16:20*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/21/23 16:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**11**		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorooctanoic acid	**1.0**	**J I**	2.0	0.65	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorobutanesulfonic acid	**6.5**		2.0	0.30	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.91	ng/L		03/30/23 16:59	04/14/23 08:32	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.1	1.7	ng/L		03/30/23 16:59	04/14/23 08:32	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.1	2.5	ng/L		03/30/23 16:59	04/14/23 08:32	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.1	2.6	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
NMeFOSA	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
NMeFOSAA	ND		4.0	1.2	ng/L		03/30/23 16:59	04/14/23 08:32	1
NEtFOSAA	ND		2.0	0.71	ng/L		03/30/23 16:59	04/14/23 08:32	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		03/30/23 16:59	04/14/23 08:32	1

Client Sample ID: GWS-7-03132023
Date Collected: 03/13/23 14:40
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
HFPO-DA	ND		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.1	1.5	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.1	1.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.1	2.0	ng/L		03/30/23 16:59	04/14/23 08:32	1
PFEESA	ND		4.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:32	1
3:3 FTCA	ND		10	1.5	ng/L		03/30/23 16:59	04/14/23 08:32	1
5:3 FTCA	ND		50	10	ng/L		03/30/23 16:59	04/14/23 08:32	1
7:3 FTCA	ND		50	10	ng/L		03/30/23 16:59	04/14/23 08:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*57.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C5 PFPeA	*76.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C5 PFHxA	*77.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C4 PFHpA	*73.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C8 PFOA	*74.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C9 PFNA	*86.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C6 PFDA	*74.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C7 PFUnA	*65.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C2-PFDoDA	*56.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C2 PFTeDA	*51.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C3 PFBS	*96.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C3 PFHxS	*76.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C8 PFOS	*82.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C8 FOSA	*82.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
d3-NMeFOSAA	*69.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
d5-NEtFOSAA	*65.2*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
M2-4:2 FTS	*79.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
M2-6:2 FTS	*87.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
M2-8:2 FTS	*77.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
13C3 HFPO-DA	*63.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
d7-N-MeFOSE-M	*48.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
d9-N-EtFOSE-M	*43.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
d5-NEtPFOSA	*30.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*
d3-NMePFOSA	*38.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:32*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-8-03132023
Date Collected: 03/13/23 15:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 16:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 16:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 16:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 16:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 16:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 16:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 16:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 16:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 16:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 16:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 16:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 16:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 16:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 16:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 16:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 16:44	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 16:44	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 16:44	1
Acetone	**3.3**	**J**	10	3.0	ug/L			03/21/23 16:44	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 16:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 16:44	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 16:44	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 16:44	1
Carbon disulfide	**0.28**	**J**	1.0	0.19	ug/L			03/21/23 16:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 16:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 16:44	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 16:44	1
Chloroform	ND		1.0	0.34	ug/L			03/21/23 16:44	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 16:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 16:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 16:44	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 16:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 16:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 16:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 16:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 16:44	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 16:44	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 16:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 16:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 16:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 16:44	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 16:44	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 16:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 16:44	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 16:44	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 16:44	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 16:44	1

Client Sample ID: GWS-8-03132023
Date Collected: 03/13/23 15:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 16:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 16:44	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 16:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 16:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 16:44	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 16:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 16:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 16:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*03/21/23 16:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/21/23 16:44*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/21/23 16:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**11**		8.0	2.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorooctanoic acid	**1.1**	**J**	2.0	0.64	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorobutanesulfonic acid	**0.86**	**J**	2.0	0.30	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		03/30/23 16:59	04/14/23 08:45	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		03/30/23 16:59	04/14/23 08:45	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		03/30/23 16:59	04/14/23 08:45	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
NMeFOSA	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
NMeFOSAA	ND		4.0	1.2	ng/L		03/30/23 16:59	04/14/23 08:45	1
NEtFOSAA	ND		2.0	0.70	ng/L		03/30/23 16:59	04/14/23 08:45	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		03/30/23 16:59	04/14/23 08:45	1

Client Sample ID: GWS-8-03132023
Date Collected: 03/13/23 15:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
HFPO-DA	ND		8.0	2.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		03/30/23 16:59	04/14/23 08:45	1
PFEESA	ND		4.0	0.50	ng/L		03/30/23 16:59	04/14/23 08:45	1
3:3 FTCA	ND		10	1.5	ng/L		03/30/23 16:59	04/14/23 08:45	1
5:3 FTCA	ND		50	10	ng/L		03/30/23 16:59	04/14/23 08:45	1
7:3 FTCA	ND		50	10	ng/L		03/30/23 16:59	04/14/23 08:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C5 PFPeA	*84.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C5 PFHxA	*83.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C4 PFHpA	*85.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C8 PFOA	*78.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C9 PFNA	*78.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C6 PFDA	*84.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C7 PFUnA	*67.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C2-PFDoDA	*61.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C2 PFTeDA	*57.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C3 PFBS	*97.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C3 PFHxS	*82.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C8 PFOS	*88.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C8 FOSA	*92.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
d3-NMeFOSAA	*76.9*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
d5-NEtFOSAA	*85.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
M2-4:2 FTS	*90.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
M2-6:2 FTS	*71.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
M2-8:2 FTS	*76.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
13C3 HFPO-DA	*67.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
d7-N-MeFOSE-M	*65.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
d9-N-EtFOSE-M	*58.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
d5-NEtPFOSA	*58.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*
d3-NMePFOSA	*60.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:45*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: GWS-1-03162023

Date Collected: 03/16/23 11:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 17:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 17:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 17:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 17:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 17:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 17:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 17:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 17:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 17:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 17:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 17:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 17:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 17:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 17:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 17:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 17:07	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 17:07	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 17:07	1
Acetone	ND		10	3.0	ug/L			03/21/23 17:07	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 17:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 17:07	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 17:07	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 17:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 17:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 17:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 17:07	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 17:07	1
Chloroform	**0.58**	**J**	1.0	0.34	ug/L			03/21/23 17:07	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 17:07	1
cis-1,2-Dichloroethene	**2.3**		1.0	0.81	ug/L			03/21/23 17:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 17:07	1
Cyclohexane	**0.23**	**J**	1.0	0.18	ug/L			03/21/23 17:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 17:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 17:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 17:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 17:07	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 17:07	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 17:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 17:07	1
Methylcyclohexane	**0.25**	**J**	1.0	0.16	ug/L			03/21/23 17:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 17:07	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 17:07	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 17:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 17:07	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 17:07	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 17:07	1
Styrene	ND		1.0	0.73	ug/L			03/21/23 17:07	1

Client Sample ID: GWS-1-03162023

Date Collected: 03/16/23 11:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 17:07	1
Tetrachloroethene	**3.8**		1.0	0.36	ug/L			03/21/23 17:07	1
Toluene	**0.60**	**J**	1.0	0.51	ug/L			03/21/23 17:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 17:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 17:07	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 17:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 17:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 17:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*03/21/23 17:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/21/23 17:07*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*03/21/23 17:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**13**		9.1	2.3	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoropentanoic acid	**18**	**I**	4.6	1.1	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorohexanoic acid	**17**		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoroheptanoic acid	**5.2**		2.3	0.59	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorooctanoic acid	**15**		2.3	0.73	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorononanoic acid	**5.7**		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorodecanoic acid	**2.3**		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoroundecanoic acid	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorododecanoic acid	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorotridecanoic acid	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorotetradecanoic acid	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorobutanesulfonic acid	**4.1**		2.3	0.34	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoropentanesulfonic acid	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorohexanesulfonic acid	ND		2.3	0.65	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoroheptanesulfonic acid	ND		2.3	0.46	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorooctanesulfonic acid	**6.3**		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorononanesulfonic acid	ND		2.3	0.46	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorodecanesulfonic acid	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.3	1.0	ng/L		03/30/23 16:59	04/14/23 08:58	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		9.1	1.9	ng/L		03/30/23 16:59	04/14/23 08:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		9.1	2.8	ng/L		03/30/23 16:59	04/14/23 08:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		9.1	3.0	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluorooctanesulfonamide	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
NMeFOSA	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.3	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
NMeFOSAA	ND		4.6	1.4	ng/L		03/30/23 16:59	04/14/23 08:58	1
NEtFOSAA	ND		2.3	0.80	ng/L		03/30/23 16:59	04/14/23 08:58	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		23	5.7	ng/L		03/30/23 16:59	04/14/23 08:58	1

Client Sample ID: GWS-1-03162023
Date Collected: 03/16/23 11:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		23	5.7	ng/L		03/30/23 16:59	04/14/23 08:58	1
HFPO-DA	ND		9.1	2.3	ng/L		03/30/23 16:59	04/14/23 08:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		9.1	1.7	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoro-3-methoxypropanoic acid	ND		4.6	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoro(4-methoxybutanoic acid)	ND		4.6	1.1	ng/L		03/30/23 16:59	04/14/23 08:58	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.6	1.1	ng/L		03/30/23 16:59	04/14/23 08:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		9.1	1.1	ng/L		03/30/23 16:59	04/14/23 08:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		9.1	2.3	ng/L		03/30/23 16:59	04/14/23 08:58	1
PFEESA	ND		4.6	0.57	ng/L		03/30/23 16:59	04/14/23 08:58	1
3:3 FTCA	ND		11	1.7	ng/L		03/30/23 16:59	04/14/23 08:58	1
5:3 FTCA	ND		57	11	ng/L		03/30/23 16:59	04/14/23 08:58	1
7:3 FTCA	ND		57	11	ng/L		03/30/23 16:59	04/14/23 08:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*64.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C5 PFPeA	*78.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C5 PFHxA	*76.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C4 PFHpA	*71.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C8 PFOA	*64.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C9 PFNA	*84.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C6 PFDA	*79.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C7 PFUnA	*73.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C2-PFDoDA	*59.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C2 PFTeDA	*55.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C3 PFBS	*90.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C3 PFHxS	*79.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C8 PFOS	*79.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C8 FOSA	*84.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
d3-NMeFOSAA	*65.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
d5-NEtFOSAA	*69.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
M2-4:2 FTS	*101*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
M2-6:2 FTS	*82.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
M2-8:2 FTS	*70.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
13C3 HFPO-DA	*67.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
d7-N-MeFOSE-M	*48.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
d9-N-EtFOSE-M	*44.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
d5-NEtPFOSA	*29.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*
d3-NMePFOSA	*37.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 08:58*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: EB-03162023
Date Collected: 03/16/23 12:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		7.3	1.8	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoropentanoic acid	ND		3.6	0.91	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorohexanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoroheptanoic acid	ND		1.8	0.47	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorooctanoic acid	ND		1.8	0.58	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorononanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorobutanesulfonic acid	ND		1.8	0.27	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoropentanesulfonic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorohexanesulfonic acid	ND		1.8	0.52	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoroheptanesulfonic acid	ND		1.8	0.36	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorooctanesulfonic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorononanesulfonic acid	ND		1.8	0.36	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorodecanesulfonic acid	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82	ng/L		03/30/23 16:59	04/14/23 09:11	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.5	ng/L		03/30/23 16:59	04/14/23 09:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3	ng/L		03/30/23 16:59	04/14/23 09:11	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluorooctanesulfonamide	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
NMeFOSA	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
NMeFOSAA	ND		3.6	1.1	ng/L		03/30/23 16:59	04/14/23 09:11	1
NEtFOSAA	ND		1.8	0.64	ng/L		03/30/23 16:59	04/14/23 09:11	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		03/30/23 16:59	04/14/23 09:11	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		03/30/23 16:59	04/14/23 09:11	1
HFPO-DA	ND		7.3	1.8	ng/L		03/30/23 16:59	04/14/23 09:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoro-3-methoxypropanoic acid	ND		3.6	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoro(4-methoxybutanoic acid)	ND		3.6	0.91	ng/L		03/30/23 16:59	04/14/23 09:11	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.6	0.91	ng/L		03/30/23 16:59	04/14/23 09:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.91	ng/L		03/30/23 16:59	04/14/23 09:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8	ng/L		03/30/23 16:59	04/14/23 09:11	1
PFEESA	ND		3.6	0.46	ng/L		03/30/23 16:59	04/14/23 09:11	1
3:3 FTCA	ND		9.1	1.4	ng/L		03/30/23 16:59	04/14/23 09:11	1
5:3 FTCA	ND		46	9.1	ng/L		03/30/23 16:59	04/14/23 09:11	1
7:3 FTCA	ND		46	9.1	ng/L		03/30/23 16:59	04/14/23 09:11	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: EB-03162023
Date Collected: 03/16/23 12:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-12
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80.4		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C5 PFPeA	85.6		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C5 PFHxA	78.6		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C4 PFHpA	86.3		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C8 PFOA	64.0		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C9 PFNA	88.4		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C6 PFDA	82.5		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C7 PFUnA	69.4		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C2-PFDoDA	61.4		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C2 PFTeDA	64.8		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C3 PFBS	93.7		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C3 PFHxS	88.0		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C8 PFOS	82.8		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C8 FOSA	83.2		20 - 150	03/30/23 16:59	04/14/23 09:11	1
d3-NMeFOSAA	75.6		20 - 150	03/30/23 16:59	04/14/23 09:11	1
d5-NEtFOSAA	82.7		20 - 150	03/30/23 16:59	04/14/23 09:11	1
M2-4:2 FTS	99.9		20 - 150	03/30/23 16:59	04/14/23 09:11	1
M2-6:2 FTS	72.8		20 - 150	03/30/23 16:59	04/14/23 09:11	1
M2-8:2 FTS	76.3		20 - 150	03/30/23 16:59	04/14/23 09:11	1
13C3 HFPO-DA	82.4		20 - 150	03/30/23 16:59	04/14/23 09:11	1
d7-N-MeFOSE-M	73.2		20 - 150	03/30/23 16:59	04/14/23 09:11	1
d9-N-EtFOSE-M	69.5		20 - 150	03/30/23 16:59	04/14/23 09:11	1
d5-NEtPFOSA	49.0		20 - 150	03/30/23 16:59	04/14/23 09:11	1
d3-NMePFOSA	49.7		20 - 150	03/30/23 16:59	04/14/23 09:11	1

Surrogate Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-207038-1	TB-03132023	93	104	91
480-207038-2	GWS-3-03132023	94	100	89
480-207038-3	GWS-2-03132023	90	101	89
480-207038-4	GWS-902-03132023	91	99	89
480-207038-5	GWS-4-03132023	88	95	90
480-207038-6	EB-03132023	87	99	90
480-207038-7	GWS-5-03132023	89	100	90
480-207038-7 MS	GWS-5-03132023	89	100	90
480-207038-7 MSD	GWS-5-03132023	90	100	92
480-207038-8	GWS-6-03132023	91	100	89
480-207038-9	GWS-7-03132023	91	100	91
480-207038-10	GWS-8-03132023	92	101	91
480-207038-11	GWS-1-03162023	90	98	87
LCS 480-662169/5	Lab Control Sample	93	105	94
MB 480-662169/7	Method Blank	92	100	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-207038-2	GWS-3-03132023	78.0	82.9	80.9	71.9	88.9	89.5	77.5	66.6
480-207038-3	GWS-2-03132023	79.3	93.8	67.7	70.1	72.5	71.0	68.4	45.5
480-207038-3 - RA	GWS-2-03132023	73.8	85.6	72.6	65.7	92.8	73.2	67.2	46.3
480-207038-3 - DL	GWS-2-03132023	82.7	77.0	77.3	62.4	99.4	74.7	70.8	51.4
480-207038-3 - RE	GWS-2-03132023	92.0	85.2	91.7	90.2	97.7	92.4	83.0	82.2
480-207038-4	GWS-902-03132023	65.9	97.4	70.6	60.0	78.8	67.6	68.5	48.2
480-207038-5	GWS-4-03132023	68.9	74.3	76.6	69.6	70.7	85.4	80.4	69.0
480-207038-6	EB-03132023	85.8	86.2	86.1	79.8	83.4	85.4	81.2	70.9
480-207038-7	GWS-5-03132023	73.0	104	105	98.5	100	87.2	89.6	90.1
480-207038-7 MS	GWS-5-03132023	75.2	91.4	81.6	90.5	90.2	85.4	89.0	83.1
480-207038-7 MSD	GWS-5-03132023	71.8	79.4	91.2	84.1	82.4	86.1	85.3	82.4
480-207038-8	GWS-6-03132023	42.9	85.5	84.4	74.4	74.3	82.8	81.0	62.0
480-207038-9	GWS-7-03132023	57.7	76.1	77.2	73.2	74.5	86.4	74.0	65.7
480-207038-10	GWS-8-03132023	68.6	84.9	83.7	85.3	78.5	78.8	84.6	67.5
480-207038-11	GWS-1-03162023	64.6	78.6	76.7	71.5	64.8	84.0	79.1	73.5
480-207038-12	EB-03162023	80.4	85.6	78.6	86.3	64.0	88.4	82.5	69.4
LCS 410-359319/2-A	Lab Control Sample	82.4	79.8	86.9	83.6	83.7	94.7	80.3	79.8
LCS 410-361317/2-A	Lab Control Sample	92.1	94.3	96.8	101	91.1	97.8	89.3	86.3
LCS 410-369007/2-A	Lab Control Sample	89.7	88.6	98.9	80.4	87.8	72.9	88.9	85.2
LLCS 410-359319/3-A	Lab Control Sample	81.6	78.8	82.5	83.9	77.6	79.4	87.8	80.9
LLCS 410-361317/3-A	Lab Control Sample	95.5	98.9	93.8	99.9	87.0	89.2	99.2	97.2
LLCS 410-369007/3-A	Lab Control Sample	89.0	80.8	81.1	78.2	75.7	93.0	87.1	83.4
MB 410-359319/1-A MBL	Method Blank	78.6	97.0	101 I	84.1	85.7	93.5	83.1	79.0
MB 410-361317/1-A	Method Blank	87.6	87.4	89.2	93.8	79.0	92.5	89.8	83.5
MB 410-369007/1-A	Method Blank	87.8	91.7	89.1 I	92.0	74.6	82.7	79.1	78.4

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoDA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
480-207038-2	GWS-3-03132023	58.6	46.7	96.7	77.3	77.1	83.3	65.5	66.5
480-207038-3	GWS-2-03132023	34.3	22.8	105	88.0	69.9	62.5	58.1	51.9
480-207038-3 - RA	GWS-2-03132023	35.5	23.3	92.8	80.8	76.3	76.2	51.9	51.5
480-207038-3 - DL	GWS-2-03132023	40.8	27.7	87.3	88.0	80.7	72.3	62.5	51.6
480-207038-3 - RE	GWS-2-03132023	78.4	78.0	70.1	85.0	82.3	85.9	82.7	75.6
480-207038-4	GWS-902-03132023	37.8	28.7	79.9	78.6	73.1	69.0	60.6	48.1
480-207038-5	GWS-4-03132023	56.2	58.1	81.2	73.4	88.7	86.7	71.1	75.4
480-207038-6	EB-03132023	67.3	53.3	93.5	88.3	78.4	80.2	82.4	83.1
480-207038-7	GWS-5-03132023	88.7	80.8	83.9	95.6	82.0	86.9	64.5	72.8
480-207038-7 MS	GWS-5-03132023	88.3	71.5	75.6	82.5	77.5	77.7	55.3	53.1
480-207038-7 MSD	GWS-5-03132023	88.5	73.5	88.7	94.7	80.0	91.9	63.0	67.3
480-207038-8	GWS-6-03132023	55.8	53.7	96.0	90.1	76.0	83.1	64.8	59.1
480-207038-9	GWS-7-03132023	56.9	51.5	96.9	76.6	82.9	82.9	69.9	65.2
480-207038-10	GWS-8-03132023	61.3	57.9	97.1	82.1	88.4	92.6	76.9	85.1
480-207038-11	GWS-1-03162023	59.7	55.7	90.1	79.4	79.0	84.0	65.0	69.4
480-207038-12	EB-03162023	61.4	64.8	93.7	88.0	82.8	83.2	75.6	82.7
LCS 410-359319/2-A	Lab Control Sample	79.1	76.3	101	86.0	88.6	83.2	81.3	74.6
LCS 410-361317/2-A	Lab Control Sample	89.1	88.2	85.7	96.5	91.3	90.3	67.9	69.1
LCS 410-369007/2-A	Lab Control Sample	81.5	80.0	66.3	86.5	86.8	81.1	71.1	65.0
LLCS 410-359319/3-A	Lab Control Sample	75.4	68.0	91.9	87.9	82.6	89.9	92.7	84.1
LLCS 410-361317/3-A	Lab Control Sample	98.0	84.2	96.1	91.6	90.6	88.1	72.6	80.3

Isotope Dilution Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoDA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
LLCS 410-369007/3-A	Lab Control Sample	86.0	81.5	75.9	81.9	87.4	84.1	71.7	72.9
MB 410-359319/1-A MBL	Method Blank	65.3	75.1	92.8	85.4	81.4	84.1	69.7	83.9
MB 410-361317/1-A	Method Blank	83.8	79.5	84.4	85.8	81.1	80.3	65.8	60.7
MB 410-369007/1-A	Method Blank	76.8	73.8	72.4	88.6	85.9	90.0	75.1	76.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
480-207038-2	GWS-3-03132023	87.5	83.3	53.8	70.7	46.2	43.0	44.9	48.1
480-207038-3	GWS-2-03132023	112	88.7	76.0	66.1	21.2	18.5 *5-	11.3 *5-	16.6 *5-
480-207038-3 - RA	GWS-2-03132023	106	113	89.5	71.1	23.6	19.9 *5-	12.4 *5-	19.6 *5-
480-207038-3 - DL	GWS-2-03132023	80.4	79.7	72.9	78.5	22.6	21.7	15.3 *5-	17.9 *5-
480-207038-3 - RE	GWS-2-03132023	79.9 I	89.3	65.0	82.9	70.6	71.6	60.0	57.6
480-207038-4	GWS-902-03132023	112	72.4	66.6	65.9	27.6	23.1	21.1	27.9
480-207038-5	GWS-4-03132023	105	59.4	64.3	56.9	57.1	50.5	33.1	39.7
480-207038-6	EB-03132023	78.6	82.9	83.4	73.9	72.3	71.6	37.5	40.4
480-207038-7	GWS-5-03132023	83.4	107	73.4	101	66.1	65.3	51.3	52.9
480-207038-7 MS	GWS-5-03132023	84.1	72.0	55.2	83.2	57.2	55.6	29.6	37.1
480-207038-7 MSD	GWS-5-03132023	86.1	116	77.5	74.8	63.6	62.5	40.4	43.7
480-207038-8	GWS-6-03132023	82.7	86.4	71.6	73.2	47.0	41.1	28.3	35.0
480-207038-9	GWS-7-03132023	79.5	87.3	77.0	63.4	48.7	43.7	30.0	38.3
480-207038-10	GWS-8-03132023	90.8	71.6	76.5	67.8	65.3	58.7	58.0	60.8
480-207038-11	GWS-1-03162023	101	82.6	70.8	67.3	48.8	44.1	29.6	37.3
480-207038-12	EB-03162023	99.9	72.8	76.3	82.4	73.2	69.5	49.0	49.7
LCS 410-359319/2-A	Lab Control Sample	95.4	92.0	86.2	80.3	72.4	67.6	48.8	49.5
LCS 410-361317/2-A	Lab Control Sample	79.3	86.9	74.9	92.1	79.5	79.1	60.7	62.5
LCS 410-369007/2-A	Lab Control Sample	78.7	81.5	65.7	91.4	68.4	68.2	54.1	51.7
LLCS 410-359319/3-A	Lab Control Sample	102	117	97.5	74.6	78.4	73.2	53.3	51.5
LLCS 410-361317/3-A	Lab Control Sample	76.9	96.2	66.5	99.5	79.9	80.7	55.9	55.5
LLCS 410-369007/3-A	Lab Control Sample	74.1	95.8	60.6	84.6	74.4	70.6	59.0	61.4
MB 410-359319/1-A MBL	Method Blank	81.6	106	78.8	90.4	71.9	69.6	50.6	47.1
MB 410-361317/1-A	Method Blank	81.3	84.3	65.1	84.5	68.9	69.5	47.4	48.6
MB 410-369007/1-A	Method Blank	79.5	102	69.4	93.2	72.3	72.8	58.1	55.2

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA

Isotope Dilution Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

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

Lab Sample ID: MB 480-662169/7
Matrix: Water
Analysis Batch: 662169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/23 10:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/23 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/23 10:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/23 10:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/23 10:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/23 10:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/23 10:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/21/23 10:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/23 10:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/23 10:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/23 10:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/23 10:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/23 10:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/21/23 10:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/23 10:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/23 10:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/23 10:35	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/23 10:35	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/21/23 10:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/23 10:35	1
Acetone	ND		10	3.0	ug/L			03/21/23 10:35	1
Benzene	ND		1.0	0.41	ug/L			03/21/23 10:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/23 10:35	1
Bromoform	ND		1.0	0.26	ug/L			03/21/23 10:35	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/23 10:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/23 10:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/23 10:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/23 10:35	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/23 10:35	1
Chloroform	ND		1.0	0.34	ug/L			03/21/23 10:35	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/23 10:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/23 10:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/23 10:35	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/23 10:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/23 10:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/23 10:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/23 10:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/23 10:35	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/21/23 10:35	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/23 10:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/23 10:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/23 10:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/23 10:35	1
Naphthalene	ND		1.0	0.43	ug/L			03/21/23 10:35	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/21/23 10:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/21/23 10:35	1
o-Xylene	ND		1.0	0.76	ug/L			03/21/23 10:35	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/21/23 10:35	1

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

Lab Sample ID: MB 480-662169/7
Matrix: Water
Analysis Batch: 662169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/21/23 10:35	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/21/23 10:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/23 10:35	1
Toluene	ND		1.0	0.51	ug/L			03/21/23 10:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/23 10:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/23 10:35	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/23 10:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/23 10:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/23 10:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/23 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*03/21/23 10:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/21/23 10:35*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/21/23 10:35*	*1*

Lab Sample ID: LCS 480-662169/5
Matrix: Water
Analysis Batch: 662169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.4		ug/L		114	61 - 148
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	76 - 122
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	25.8		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	79 - 122
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	24.3		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	25.4		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	77 - 121
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
2-Butanone (MEK)	125	133		ug/L		106	57 - 140
2-Hexanone	125	125		ug/L		100	65 - 127
4-Isopropyltoluene	25.0	25.1		ug/L		100	73 - 120
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	71 - 125
Acetone	125	133		ug/L		106	56 - 142
Benzene	25.0	26.0		ug/L		104	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		102	80 - 122
Bromoform	25.0	26.4		ug/L		106	61 - 132
Bromomethane	25.0	25.9		ug/L		104	55 - 144
Carbon disulfide	25.0	26.2		ug/L		105	59 - 134
Carbon tetrachloride	25.0	27.9		ug/L		111	72 - 134

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

Lab Sample ID: LCS 480-662169/5
Matrix: Water
Analysis Batch: 662169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	25.0	25.2		ug/L		101	80 - 120
Chloroethane	25.0	26.9		ug/L		108	69 - 136
Chloroform	25.0	24.1		ug/L		97	73 - 127
Chloromethane	25.0	28.5		ug/L		114	68 - 124
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124
Cyclohexane	25.0	26.0		ug/L		104	59 - 135
Dibromochloromethane	25.0	26.7		ug/L		107	75 - 125
Dichlorodifluoromethane	25.0	27.4		ug/L		110	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Isopropylbenzene	25.0	25.6		ug/L		102	77 - 122
m,p-Xylene	25.0	25.3		ug/L		101	76 - 122
Methyl acetate	50.0	47.1		ug/L		94	74 - 133
Methyl tert-butyl ether	25.0	23.4		ug/L		93	77 - 120
Methylcyclohexane	25.0	25.1		ug/L		100	68 - 134
Methylene Chloride	25.0	22.7		ug/L		91	75 - 124
Naphthalene	25.0	20.7		ug/L		83	66 - 125
n-Butylbenzene	25.0	25.1		ug/L		100	71 - 128
N-Propylbenzene	25.0	26.0		ug/L		104	75 - 127
o-Xylene	25.0	24.8		ug/L		99	76 - 122
sec-Butylbenzene	25.0	25.5		ug/L		102	74 - 127
Styrene	25.0	25.6		ug/L		102	80 - 120
tert-Butylbenzene	25.0	26.3		ug/L		105	75 - 123
Tetrachloroethene	25.0	25.4		ug/L		102	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	24.9		ug/L		99	80 - 120
Trichloroethene	25.0	26.3		ug/L		105	74 - 123
Trichlorofluoromethane	25.0	30.6		ug/L		122	62 - 150
Vinyl chloride	25.0	28.4		ug/L		114	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 480-207038-7 MS
Matrix: Water
Analysis Batch: 662169

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		25.0	28.1		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	28.4		ug/L		113	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.3		ug/L		105	61 - 148
1,1,2-Trichloroethane	ND		25.0	28.7		ug/L		115	76 - 122
1,1-Dichloroethane	ND		25.0	28.1		ug/L		112	77 - 120
1,1-Dichloroethene	ND		25.0	26.2		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	24.4		ug/L		98	79 - 122

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

Lab Sample ID: 480-207038-7 MS
Matrix: Water
Analysis Batch: 662169

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	ND		25.0	27.3		ug/L		109	76 - 121
1,2-Dibromo-3-Chloropropane	ND		25.0	26.7		ug/L		107	56 - 134
1,2-Dibromoethane	ND		25.0	29.1		ug/L		116	77 - 120
1,2-Dichlorobenzene	ND		25.0	27.3		ug/L		109	80 - 124
1,2-Dichloroethane	ND		25.0	29.1		ug/L		116	75 - 120
1,2-Dichloropropane	ND		25.0	28.5		ug/L		114	76 - 120
1,3,5-Trimethylbenzene	ND		25.0	27.1		ug/L		108	77 - 121
1,3-Dichlorobenzene	ND		25.0	27.7		ug/L		111	77 - 120
1,4-Dichlorobenzene	ND		25.0	28.0		ug/L		112	78 - 124
2-Butanone (MEK)	ND		125	162		ug/L		130	57 - 140
2-Hexanone	ND		125	149		ug/L		119	65 - 127
4-Isopropyltoluene	ND		25.0	26.6		ug/L		106	73 - 120
4-Methyl-2-pentanone (MIBK)	ND		125	141		ug/L		113	71 - 125
Acetone	3.8	J	125	166		ug/L		130	56 - 142
Benzene	0.64	J	25.0	28.3		ug/L		111	71 - 124
Bromodichloromethane	ND		25.0	27.6		ug/L		110	80 - 122
Bromoform	ND		25.0	30.9		ug/L		124	61 - 132
Bromomethane	ND		25.0	27.3		ug/L		109	55 - 144
Carbon disulfide	ND		25.0	27.1		ug/L		109	59 - 134
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	72 - 134
Chlorobenzene	ND		25.0	27.9		ug/L		112	80 - 120
Chloroethane	ND		25.0	28.3		ug/L		113	69 - 136
Chloroform	ND		25.0	26.3		ug/L		105	73 - 127
Chloromethane	ND		25.0	30.0		ug/L		120	68 - 124
cis-1,2-Dichloroethene	14		25.0	43.8		ug/L		118	74 - 124
cis-1,3-Dichloropropene	ND		25.0	28.0		ug/L		112	74 - 124
Cyclohexane	0.36	J	25.0	24.8		ug/L		98	59 - 135
Dibromochloromethane	ND		25.0	29.8		ug/L		119	75 - 125
Dichlorodifluoromethane	ND		25.0	27.9		ug/L		112	59 - 135
Ethylbenzene	ND		25.0	27.1		ug/L		108	77 - 123
Isopropylbenzene	ND		25.0	26.8		ug/L		107	77 - 122
m,p-Xylene	ND		25.0	27.6		ug/L		111	76 - 122
Methyl acetate	ND		50.0	59.1		ug/L		118	74 - 133
Methyl tert-butyl ether	ND		25.0	27.1		ug/L		108	77 - 120
Methylcyclohexane	0.55	J	25.0	24.5		ug/L		96	68 - 134
Methylene Chloride	ND		25.0	26.2		ug/L		105	75 - 124
Naphthalene	ND		25.0	23.6		ug/L		94	66 - 125
n-Butylbenzene	ND		25.0	25.8		ug/L		103	71 - 128
N-Propylbenzene	ND		25.0	27.0		ug/L		108	75 - 127
o-Xylene	ND		25.0	26.8		ug/L		107	76 - 122
sec-Butylbenzene	ND		25.0	26.3		ug/L		105	74 - 127
Styrene	ND		25.0	27.9		ug/L		112	80 - 120
tert-Butylbenzene	ND		25.0	27.8		ug/L		111	75 - 123
Tetrachloroethene	17		25.0	43.3		ug/L		104	74 - 122
Toluene	1.2		25.0	27.8		ug/L		107	80 - 122
trans-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	73 - 127
trans-1,3-Dichloropropene	ND		25.0	26.4		ug/L		106	80 - 120
Trichloroethene	1.7		25.0	29.3		ug/L		111	74 - 123
Trichlorofluoromethane	ND		25.0	29.8		ug/L		119	62 - 150

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

Lab Sample ID: 480-207038-7 MS
Matrix: Water
Analysis Batch: 662169

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	ND		25.0	28.6		ug/L		114	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*90*		*80 - 120*

Lab Sample ID: 480-207038-7 MSD
Matrix: Water
Analysis Batch: 662169

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	25.5		ug/L		102	73 - 126	10	15
1,1,2,2-Tetrachloroethane	ND		25.0	27.1		ug/L		109	76 - 120	4	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.0		ug/L		104	61 - 148	1	20
1,1,2-Trichloroethane	ND		25.0	27.2		ug/L		109	76 - 122	5	15
1,1-Dichloroethane	ND		25.0	27.3		ug/L		109	77 - 120	3	20
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	66 - 127	5	16
1,2,4-Trichlorobenzene	ND		25.0	24.7		ug/L		99	79 - 122	1	20
1,2,4-Trimethylbenzene	ND		25.0	26.5		ug/L		106	76 - 121	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.3		ug/L		105	56 - 134	1	15
1,2-Dibromoethane	ND		25.0	26.8		ug/L		107	77 - 120	8	15
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	27.8		ug/L		111	75 - 120	5	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	76 - 120	5	20
1,3,5-Trimethylbenzene	ND		25.0	26.1		ug/L		104	77 - 121	4	20
1,3-Dichlorobenzene	ND		25.0	27.0		ug/L		108	77 - 120	3	20
1,4-Dichlorobenzene	ND		25.0	26.2		ug/L		105	78 - 124	7	20
2-Butanone (MEK)	ND		125	156		ug/L		125	57 - 140	4	20
2-Hexanone	ND		125	141		ug/L		113	65 - 127	5	15
4-Isopropyltoluene	ND		25.0	25.7		ug/L		103	73 - 120	3	20
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		106	71 - 125	6	35
Acetone	3.8	J	125	164		ug/L		128	56 - 142	2	15
Benzene	0.64	J	25.0	26.9		ug/L		105	71 - 124	5	13
Bromodichloromethane	ND		25.0	26.2		ug/L		105	80 - 122	5	15
Bromoform	ND		25.0	29.5		ug/L		118	61 - 132	4	15
Bromomethane	ND		25.0	29.2		ug/L		117	55 - 144	7	15
Carbon disulfide	ND		25.0	25.1		ug/L		100	59 - 134	8	15
Carbon tetrachloride	ND		25.0	26.3		ug/L		105	72 - 134	5	15
Chlorobenzene	ND		25.0	26.1		ug/L		104	80 - 120	7	25
Chloroethane	ND		25.0	29.7		ug/L		119	69 - 136	5	15
Chloroform	ND		25.0	24.7		ug/L		99	73 - 127	6	20
Chloromethane	ND		25.0	30.4		ug/L		122	68 - 124	1	15
cis-1,2-Dichloroethene	14		25.0	43.1		ug/L		115	74 - 124	1	15
cis-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	74 - 124	7	15
Cyclohexane	0.36	J	25.0	23.6		ug/L		93	59 - 135	5	20
Dibromochloromethane	ND		25.0	28.5		ug/L		114	75 - 125	4	15
Dichlorodifluoromethane	ND		25.0	29.1		ug/L		116	59 - 135	4	20

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

Lab Sample ID: 480-207038-7 MSD
Matrix: Water
Analysis Batch: 662169

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	ND		25.0	25.3		ug/L		101	77 - 123	7	15
Isopropylbenzene	ND		25.0	26.3		ug/L		105	77 - 122	2	20
m,p-Xylene	ND		25.0	26.3		ug/L		105	76 - 122	5	16
Methyl acetate	ND		50.0	57.4		ug/L		115	74 - 133	3	20
Methyl tert-butyl ether	ND		25.0	26.1		ug/L		104	77 - 120	4	37
Methylcyclohexane	0.55	J	25.0	24.3		ug/L		95	68 - 134	1	20
Methylene Chloride	ND		25.0	24.8		ug/L		99	75 - 124	6	15
Naphthalene	ND		25.0	23.2		ug/L		93	66 - 125	2	20
n-Butylbenzene	ND		25.0	25.3		ug/L		101	71 - 128	2	15
N-Propylbenzene	ND		25.0	26.2		ug/L		105	75 - 127	3	15
o-Xylene	ND		25.0	25.3		ug/L		101	76 - 122	6	16
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	74 - 127	4	15
Styrene	ND		25.0	25.6		ug/L		103	80 - 120	8	20
tert-Butylbenzene	ND		25.0	26.6		ug/L		107	75 - 123	4	15
Tetrachloroethene	17		25.0	42.8		ug/L		102	74 - 122	1	20
Toluene	1.2		25.0	26.7		ug/L		102	80 - 122	4	15
trans-1,2-Dichloroethene	ND		25.0	25.5		ug/L		102	73 - 127	5	20
trans-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	80 - 120	4	15
Trichloroethene	1.7		25.0	28.7		ug/L		108	74 - 123	2	16
Trichlorofluoromethane	ND		25.0	30.1		ug/L		120	62 - 150	1	20
Vinyl chloride	ND		25.0	29.6		ug/L		119	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

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

Lab Sample ID: MB 410-359319/1-A MBL
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359319

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		8.0	2.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorooctanoic acid	ND		2.0	0.64	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorobutanesulfonic acid	ND		2.0	0.30	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		03/30/23 16:59	04/14/23 05:15	1

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

Lab Sample ID: MB 410-359319/1-A MBL
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359319

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		03/30/23 16:59	04/14/23 05:15	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		03/30/23 16:59	04/14/23 05:15	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		03/30/23 16:59	04/14/23 05:15	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
NMeFOSA	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
NMeFOSAA	ND		4.0	1.2	ng/L		03/30/23 16:59	04/14/23 05:15	1
NEtFOSAA	ND		2.0	0.70	ng/L		03/30/23 16:59	04/14/23 05:15	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
HFPO-DA	ND		8.0	2.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		03/30/23 16:59	04/14/23 05:15	1
PFEESA	ND		4.0	0.50	ng/L		03/30/23 16:59	04/14/23 05:15	1
3:3 FTCA	ND		10	1.5	ng/L		03/30/23 16:59	04/14/23 05:15	1
5:3 FTCA	ND		50	10	ng/L		03/30/23 16:59	04/14/23 05:15	1
7:3 FTCA	ND		50	10	ng/L		03/30/23 16:59	04/14/23 05:15	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78.6*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C5 PFPeA	*97.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C5 PFHxA	*101*	*I*	*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C4 PFHpA	*84.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C8 PFOA	*85.7*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C9 PFNA	*93.5*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C6 PFDA	*83.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C7 PFUnA	*79.0*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C2-PFDoDA	*65.3*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C2 PFTeDA	*75.1*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C3 PFBS	*92.8*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C3 PFHxS	*85.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*
13C8 PFOS	*81.4*		*20 - 150*	*03/30/23 16:59*	*04/14/23 05:15*	*1*

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

Lab Sample ID: MB 410-359319/1-A MBL
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359319

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	84.1		20 - 150	03/30/23 16:59	04/14/23 05:15	1
d3-NMeFOSAA	69.7		20 - 150	03/30/23 16:59	04/14/23 05:15	1
d5-NEtFOSAA	83.9		20 - 150	03/30/23 16:59	04/14/23 05:15	1
M2-4:2 FTS	81.6		20 - 150	03/30/23 16:59	04/14/23 05:15	1
M2-6:2 FTS	106		20 - 150	03/30/23 16:59	04/14/23 05:15	1
M2-8:2 FTS	78.8		20 - 150	03/30/23 16:59	04/14/23 05:15	1
13C3 HFPO-DA	90.4		20 - 150	03/30/23 16:59	04/14/23 05:15	1
d7-N-MeFOSE-M	71.9		20 - 150	03/30/23 16:59	04/14/23 05:15	1
d9-N-EtFOSE-M	69.6		20 - 150	03/30/23 16:59	04/14/23 05:15	1
d5-NEtPFOSA	50.6		20 - 150	03/30/23 16:59	04/14/23 05:15	1
d3-NMePFOSA	47.1		20 - 150	03/30/23 16:59	04/14/23 05:15	1

Lab Sample ID: LCS 410-359319/2-A
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	100	109		ng/L		109	40 - 150
Perfluoropentanoic acid	50.1	55.0		ng/L		110	40 - 150
Perfluorohexanoic acid	25.0	26.9		ng/L		107	40 - 150
Perfluoroheptanoic acid	25.0	23.8		ng/L		95	40 - 150
Perfluorooctanoic acid	25.0	27.6		ng/L		110	40 - 150
Perfluorononanoic acid	25.0	26.9		ng/L		107	40 - 150
Perfluorodecanoic acid	25.0	28.5		ng/L		114	40 - 150
Perfluoroundecanoic acid	25.0	24.6		ng/L		98	40 - 150
Perfluorododecanoic acid	25.0	24.4		ng/L		97	40 - 150
Perfluorotridecanoic acid	25.0	22.7		ng/L		91	40 - 150
Perfluorotetradecanoic acid	25.0	27.7		ng/L		110	40 - 150
Perfluorobutanesulfonic acid	22.2	25.1		ng/L		113	40 - 150
Perfluoropentanesulfonic acid	23.6	26.1		ng/L		111	40 - 150
Perfluorohexanesulfonic acid	22.9	22.9		ng/L		100	40 - 150
Perfluoroheptanesulfonic acid	23.9	23.1		ng/L		97	40 - 150
Perfluorooctanesulfonic acid	23.2	22.3		ng/L		96	40 - 150
Perfluorononanesulfonic acid	24.1	23.3		ng/L		97	40 - 150
Perfluorodecanesulfonic acid	24.2	23.7		ng/L		98	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	24.3	22.2		ng/L		91	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	88.9		ng/L		95	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	104		ng/L		109	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	91.6		ng/L		95	40 - 150
Perfluorooctanesulfonamide	25.0	27.5		ng/L		110	40 - 150
NMeFOSA	25.0	29.2		ng/L		117	40 - 150
N-ethylperfluoro-1-octanesulfonamide	25.0	31.5		ng/L		126	40 - 150
NMeFOSAA	25.0	24.7		ng/L		98	40 - 150
NEtFOSAA	25.0	35.7		ng/L		143	40 - 150

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

Lab Sample ID: LCS 410-359319/2-A
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	270		ng/L		108	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	265		ng/L		106	40 - 150
HFPO-DA	100	113		ng/L		113	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	102		ng/L		108	40 - 150
Perfluoro-3-methoxypropanoic acid	50.1	53.3		ng/L		106	40 - 150
Perfluoro(4-methoxybutanoic acid)	50.1	55.8		ng/L		111	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	50.1	55.3		ng/L		110	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	106		ng/L		113	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	89.4		ng/L		95	40 - 150
PFEESA	44.6	42.9		ng/L		96	40 - 150
3:3 FTCA	100	120		ng/L		120	40 - 150
5:3 FTCA	501	622		ng/L		124	40 - 150
7:3 FTCA	501	592		ng/L		118	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*82.4*		*20 - 150*
13C5 PFPeA	*79.8*		*20 - 150*
13C5 PFHxA	*86.9*		*20 - 150*
13C4 PFHpA	*83.6*		*20 - 150*
13C8 PFOA	*83.7*		*20 - 150*
13C9 PFNA	*94.7*		*20 - 150*
13C6 PFDA	*80.3*		*20 - 150*
13C7 PFUnA	*79.8*		*20 - 150*
13C2-PFDoDA	*79.1*		*20 - 150*
13C2 PFTeDA	*76.3*		*20 - 150*
13C3 PFBS	*101*		*20 - 150*
13C3 PFHxS	*86.0*		*20 - 150*
13C8 PFOS	*88.6*		*20 - 150*
13C8 FOSA	*83.2*		*20 - 150*
d3-NMeFOSAA	*81.3*		*20 - 150*
d5-NEtFOSAA	*74.6*		*20 - 150*
M2-4:2 FTS	*95.4*		*20 - 150*
M2-6:2 FTS	*92.0*		*20 - 150*
M2-8:2 FTS	*86.2*		*20 - 150*
13C3 HFPO-DA	*80.3*		*20 - 150*
d7-N-MeFOSE-M	*72.4*		*20 - 150*
d9-N-EtFOSE-M	*67.6*		*20 - 150*
d5-NEtPFOSA	*48.8*		*20 - 150*
d3-NMePFOSA	*49.5*		*20 - 150*

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

Lab Sample ID: LLCS 410-359319/3-A
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359319

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	16.0	17.8		ng/L		111	40 - 150
Perfluoropentanoic acid	8.00	8.29		ng/L		104	40 - 150
Perfluorohexanoic acid	4.00	4.73		ng/L		118	40 - 150
Perfluoroheptanoic acid	4.00	4.28		ng/L		107	40 - 150
Perfluorooctanoic acid	4.00	5.01		ng/L		125	40 - 150
Perfluorononanoic acid	4.00	3.98		ng/L		99	40 - 150
Perfluorodecanoic acid	4.00	3.32		ng/L		83	40 - 150
Perfluoroundecanoic acid	4.00	4.56		ng/L		114	40 - 150
Perfluorododecanoic acid	4.00	3.81		ng/L		95	40 - 150
Perfluorotridecanoic acid	4.00	3.76		ng/L		94	40 - 150
Perfluorotetradecanoic acid	4.00	4.34		ng/L		109	40 - 150
Perfluorobutanesulfonic acid	3.55	4.29		ng/L		121	40 - 150
Perfluoropentanesulfonic acid	3.76	4.03		ng/L		107	40 - 150
Perfluorohexanesulfonic acid	3.66	3.41		ng/L		93	40 - 150
Perfluoroheptanesulfonic acid	3.81	4.63		ng/L		122	40 - 150
Perfluorooctanesulfonic acid	3.71	4.42		ng/L		119	40 - 150
Perfluorononanesulfonic acid	3.85	3.56		ng/L		92	40 - 150
Perfluorodecanesulfonic acid	3.86	3.61		ng/L		93	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.21		ng/L		83	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	18.8		ng/L		125	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	11.7		ng/L		77	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	14.5		ng/L		95	40 - 150
Perfluorooctanesulfonamide	4.00	4.10		ng/L		102	40 - 150
NMeFOSA	4.00	4.64		ng/L		116	40 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	4.79		ng/L		120	40 - 150
NMeFOSAA	4.00	3.09	J	ng/L		77	40 - 150
NEtFOSAA	4.00	4.92		ng/L		123	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	38.9		ng/L		97	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	40.1		ng/L		100	40 - 150
HFPO-DA	16.0	17.3		ng/L		108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	15.4		ng/L		102	40 - 150
Perfluoro-3-methoxypropanoic acid	8.00	9.28		ng/L		116	40 - 150
Perfluoro(4-methoxybutanoic acid)	8.00	8.47		ng/L		106	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	8.00	10.1		ng/L		127	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	16.6		ng/L		111	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	13.0		ng/L		86	40 - 150
PFEESA	7.12	7.33		ng/L		103	40 - 150

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

Lab Sample ID: LLCS 410-359319/3-A
Matrix: Water
Analysis Batch: 364073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359319

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
3:3 FTCA	16.0	20.0		ng/L		125	40 - 150
5:3 FTCA	80.0	94.2		ng/L		118	40 - 150
7:3 FTCA	80.0	97.3		ng/L		122	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*81.6*		*20 - 150*
13C5 PFPeA	*78.8*		*20 - 150*
13C5 PFHxA	*82.5*		*20 - 150*
13C4 PFHpA	*83.9*		*20 - 150*
13C8 PFOA	*77.6*		*20 - 150*
13C9 PFNA	*79.4*		*20 - 150*
13C6 PFDA	*87.8*		*20 - 150*
13C7 PFUnA	*80.9*		*20 - 150*
13C2-PFDoDA	*75.4*		*20 - 150*
13C2 PFTeDA	*68.0*		*20 - 150*
13C3 PFBS	*91.9*		*20 - 150*
13C3 PFHxS	*87.9*		*20 - 150*
13C8 PFOS	*82.6*		*20 - 150*
13C8 FOSA	*89.9*		*20 - 150*
d3-NMeFOSAA	*92.7*		*20 - 150*
d5-NEtFOSAA	*84.1*		*20 - 150*
M2-4:2 FTS	*102*		*20 - 150*
M2-6:2 FTS	*117*		*20 - 150*
M2-8:2 FTS	*97.5*		*20 - 150*
13C3 HFPO-DA	*74.6*		*20 - 150*
d7-N-MeFOSE-M	*78.4*		*20 - 150*
d9-N-EtFOSE-M	*73.2*		*20 - 150*
d5-NEtPFOSA	*53.3*		*20 - 150*
d3-NMePFOSA	*51.5*		*20 - 150*

Lab Sample ID: MB 410-361317/1-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		8.0	2.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorooctanoic acid	ND		2.0	0.64	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorobutanesulfonic acid	ND		2.0	0.30	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		04/05/23 17:22	04/25/23 16:16	1

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

Lab Sample ID: MB 410-361317/1-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		04/05/23 17:22	04/25/23 16:16	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		04/05/23 17:22	04/25/23 16:16	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		04/05/23 17:22	04/25/23 16:16	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
NMeFOSA	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
NMeFOSAA	ND		4.0	1.2	ng/L		04/05/23 17:22	04/25/23 16:16	1
NEtFOSAA	ND		2.0	0.70	ng/L		04/05/23 17:22	04/25/23 16:16	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
HFPO-DA	ND		8.0	2.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		04/05/23 17:22	04/25/23 16:16	1
PFEESA	ND		4.0	0.50	ng/L		04/05/23 17:22	04/25/23 16:16	1
3:3 FTCA	ND		10	1.5	ng/L		04/05/23 17:22	04/25/23 16:16	1
5:3 FTCA	ND		50	10	ng/L		04/05/23 17:22	04/25/23 16:16	1
7:3 FTCA	ND		50	10	ng/L		04/05/23 17:22	04/25/23 16:16	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87.6*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C5 PFPeA	*87.4*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C5 PFHxA	*89.2*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C4 PFHpA	*93.8*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C8 PFOA	*79.0*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C9 PFNA	*92.5*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C6 PFDA	*89.8*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C7 PFUnA	*83.5*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C2-PFDoDA	*83.8*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C2 PFTeDA	*79.5*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C3 PFBS	*84.4*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*
13C3 PFHxS	*85.8*		*20 - 150*	*04/05/23 17:22*	*04/25/23 16:16*	*1*

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

Lab Sample ID: MB 410-361317/1-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361317

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	81.1		20 - 150	04/05/23 17:22	04/25/23 16:16	1
13C8 FOSA	80.3		20 - 150	04/05/23 17:22	04/25/23 16:16	1
d3-NMeFOSAA	65.8		20 - 150	04/05/23 17:22	04/25/23 16:16	1
d5-NEtFOSAA	60.7		20 - 150	04/05/23 17:22	04/25/23 16:16	1
M2-4:2 FTS	81.3		20 - 150	04/05/23 17:22	04/25/23 16:16	1
M2-6:2 FTS	84.3		20 - 150	04/05/23 17:22	04/25/23 16:16	1
M2-8:2 FTS	65.1		20 - 150	04/05/23 17:22	04/25/23 16:16	1
13C3 HFPO-DA	84.5		20 - 150	04/05/23 17:22	04/25/23 16:16	1
d7-N-MeFOSE-M	68.9		20 - 150	04/05/23 17:22	04/25/23 16:16	1
d9-N-EtFOSE-M	69.5		20 - 150	04/05/23 17:22	04/25/23 16:16	1
d5-NEtPFOSA	47.4		20 - 150	04/05/23 17:22	04/25/23 16:16	1
d3-NMePFOSA	48.6		20 - 150	04/05/23 17:22	04/25/23 16:16	1

Lab Sample ID: LCS 410-361317/2-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	100	99.1		ng/L		99	40 - 150
Perfluoropentanoic acid	50.1	50.4		ng/L		101	40 - 150
Perfluorohexanoic acid	25.0	22.5		ng/L		90	40 - 150
Perfluoroheptanoic acid	25.0	21.8		ng/L		87	40 - 150
Perfluorooctanoic acid	25.0	20.8		ng/L		83	40 - 150
Perfluorononanoic acid	25.0	23.1		ng/L		92	40 - 150
Perfluorodecanoic acid	25.0	25.1		ng/L		100	40 - 150
Perfluoroundecanoic acid	25.0	26.0		ng/L		104	40 - 150
Perfluorododecanoic acid	25.0	24.7		ng/L		98	40 - 150
Perfluorotridecanoic acid	25.0	25.6		ng/L		102	40 - 150
Perfluorotetradecanoic acid	25.0	24.8		ng/L		99	40 - 150
Perfluorobutanesulfonic acid	22.2	20.8		ng/L		94	40 - 150
Perfluoropentanesulfonic acid	23.6	21.0		ng/L		89	40 - 150
Perfluorohexanesulfonic acid	22.9	20.1		ng/L		88	40 - 150
Perfluoroheptanesulfonic acid	23.9	22.6		ng/L		95	40 - 150
Perfluorooctanesulfonic acid	23.2	23.0		ng/L		99	40 - 150
Perfluorononanesulfonic acid	24.1	22.4		ng/L		93	40 - 150
Perfluorodecanesulfonic acid	24.2	22.1		ng/L		92	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	24.3	19.4		ng/L		80	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	91.6		ng/L		98	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	85.6		ng/L		90	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	90.3		ng/L		94	40 - 150
Perfluorooctanesulfonamide	25.0	23.8		ng/L		95	40 - 150
NMeFOSA	25.0	29.5		ng/L		118	40 - 150
N-ethylperfluoro-1-octanesulfonamide	25.0	29.5		ng/L		118	40 - 150
NMeFOSAA	25.0	26.8		ng/L		107	40 - 150
NEtFOSAA	25.0	23.6		ng/L		94	40 - 150

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

Lab Sample ID: LCS 410-361317/2-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361317

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-(N-methylperfluoro-1-octanesulfonamido) ethanol			250	267		ng/L		107	40 - 150		
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol			250	261		ng/L		104	40 - 150		
HFPO-DA			100	103		ng/L		103	40 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			94.5	111		ng/L		117	40 - 150		
Perfluoro-3-methoxypropanoic acid			50.1	54.2		ng/L		108	40 - 150		
Perfluoro(4-methoxybutanoic acid)			50.1	52.4		ng/L		105	40 - 150		
Perfluoro-3,6-dioxaheptanoic acid			50.1	56.5		ng/L		113	40 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid			93.5	111		ng/L		118	40 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid			94.5	101		ng/L		107	40 - 150		
PFEESA			44.6	48.7		ng/L		109	40 - 150		
3:3 FTCA			100	130		ng/L		130	40 - 150		
5:3 FTCA			501	661		ng/L		132	40 - 150		
7:3 FTCA			501	595		ng/L		119	40 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*92.1*		*20 - 150*
13C5 PFPeA	*94.3*		*20 - 150*
13C5 PFHxA	*96.8*		*20 - 150*
13C4 PFHpA	*101*		*20 - 150*
13C8 PFOA	*91.1*		*20 - 150*
13C9 PFNA	*97.8*		*20 - 150*
13C6 PFDA	*89.3*		*20 - 150*
13C7 PFUnA	*86.3*		*20 - 150*
13C2-PFDoDA	*89.1*		*20 - 150*
13C2 PFTeDA	*88.2*		*20 - 150*
13C3 PFBS	*85.7*		*20 - 150*
13C3 PFHxS	*96.5*		*20 - 150*
13C8 PFOS	*91.3*		*20 - 150*
13C8 FOSA	*90.3*		*20 - 150*
d3-NMeFOSAA	*67.9*		*20 - 150*
d5-NEtFOSAA	*69.1*		*20 - 150*
M2-4:2 FTS	*79.3*		*20 - 150*
M2-6:2 FTS	*86.9*		*20 - 150*
M2-8:2 FTS	*74.9*		*20 - 150*
13C3 HFPO-DA	*92.1*		*20 - 150*
d7-N-MeFOSE-M	*79.5*		*20 - 150*
d9-N-EtFOSE-M	*79.1*		*20 - 150*
d5-NEtPFOSA	*60.7*		*20 - 150*
d3-NMePFOSA	*62.5*		*20 - 150*

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

Lab Sample ID: LLCS 410-361317/3-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361317

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	16.0	15.4		ng/L		96	40 - 150
Perfluoropentanoic acid	8.00	7.26		ng/L		91	40 - 150
Perfluorohexanoic acid	4.00	4.06		ng/L		101	40 - 150
Perfluoroheptanoic acid	4.00	3.80		ng/L		95	40 - 150
Perfluorooctanoic acid	4.00	4.41		ng/L		110	40 - 150
Perfluorononanoic acid	4.00	3.54		ng/L		89	40 - 150
Perfluorodecanoic acid	4.00	3.98		ng/L		99	40 - 150
Perfluoroundecanoic acid	4.00	3.63		ng/L		91	40 - 150
Perfluorododecanoic acid	4.00	3.60		ng/L		90	40 - 150
Perfluorotridecanoic acid	4.00	4.01		ng/L		100	40 - 150
Perfluorotetradecanoic acid	4.00	4.33		ng/L		108	40 - 150
Perfluorobutanesulfonic acid	3.55	3.30		ng/L		93	40 - 150
Perfluoropentanesulfonic acid	3.76	3.44		ng/L		91	40 - 150
Perfluorohexanesulfonic acid	3.66	3.64		ng/L		100	40 - 150
Perfluoroheptanesulfonic acid	3.81	3.55		ng/L		93	40 - 150
Perfluorooctanesulfonic acid	3.71	3.54		ng/L		95	40 - 150
Perfluorononanesulfonic acid	3.85	3.37		ng/L		88	40 - 150
Perfluorodecanesulfonic acid	3.86	3.30		ng/L		85	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.01		ng/L		78	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	16.7		ng/L		111	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	12.7		ng/L		84	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	18.7		ng/L		122	40 - 150
Perfluorooctanesulfonamide	4.00	3.97		ng/L		99	40 - 150
NMeFOSA	4.00	4.97		ng/L		124	40 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	5.11		ng/L		128	40 - 150
NMeFOSAA	4.00	4.06		ng/L		101	40 - 150
NEtFOSAA	4.00	4.36		ng/L		109	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	39.9		ng/L		100	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	39.1		ng/L		98	40 - 150
HFPO-DA	16.0	15.2		ng/L		95	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	14.9		ng/L		99	40 - 150
Perfluoro-3-methoxypropanoic acid	8.00	6.80		ng/L		85	40 - 150
Perfluoro(4-methoxybutanoic acid)	8.00	7.44		ng/L		93	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	8.00	10.8		ng/L		136	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	15.5		ng/L		103	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	14.4		ng/L		96	40 - 150
PFEESA	7.12	7.63		ng/L		107	40 - 150

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

Lab Sample ID: LLCS 410-361317/3-A
Matrix: Water
Analysis Batch: 368303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361317

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
3:3 FTCA			16.0	18.5		ng/L		115	40 - 150		
5:3 FTCA			80.0	95.4		ng/L		119	40 - 150		
7:3 FTCA			80.0	85.1		ng/L		106	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*95.5*		*20 - 150*
13C5 PFPeA	*98.9*		*20 - 150*
13C5 PFHxA	*93.8*		*20 - 150*
13C4 PFHpA	*99.9*		*20 - 150*
13C8 PFOA	*87.0*		*20 - 150*
13C9 PFNA	*89.2*		*20 - 150*
13C6 PFDA	*99.2*		*20 - 150*
13C7 PFUnA	*97.2*		*20 - 150*
13C2-PFDoDA	*98.0*		*20 - 150*
13C2 PFTeDA	*84.2*		*20 - 150*
13C3 PFBS	*96.1*		*20 - 150*
13C3 PFHxS	*91.6*		*20 - 150*
13C8 PFOS	*90.6*		*20 - 150*
13C8 FOSA	*88.1*		*20 - 150*
d3-NMeFOSAA	*72.6*		*20 - 150*
d5-NEtFOSAA	*80.3*		*20 - 150*
M2-4:2 FTS	*76.9*		*20 - 150*
M2-6:2 FTS	*96.2*		*20 - 150*
M2-8:2 FTS	*66.5*		*20 - 150*
13C3 HFPO-DA	*99.5*		*20 - 150*
d7-N-MeFOSE-M	*79.9*		*20 - 150*
d9-N-EtFOSE-M	*80.7*		*20 - 150*
d5-NEtPFOSA	*55.9*		*20 - 150*
d3-NMePFOSA	*55.5*		*20 - 150*

Lab Sample ID: 480-207038-7 MS
Matrix: Water
Analysis Batch: 368303

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA
Prep Batch: 361317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid	14		98.8	113		ng/L		101	40 - 150		
Perfluoropentanoic acid	16		49.4	61.7	I	ng/L		93	40 - 150		
Perfluorohexanoic acid	11		24.7	36.2		ng/L		102	40 - 150		
Perfluoroheptanoic acid	5.3		24.7	28.7		ng/L		95	40 - 150		
Perfluorooctanoic acid	12		24.7	31.8		ng/L		82	40 - 150		
Perfluorononanoic acid	1.6	J	24.7	25.8		ng/L		98	40 - 150		
Perfluorodecanoic acid	ND		24.7	27.8		ng/L		112	40 - 150		
Perfluoroundecanoic acid	ND		24.7	26.1		ng/L		106	40 - 150		
Perfluorododecanoic acid	ND		24.7	24.0		ng/L		97	40 - 150		
Perfluorotridecanoic acid	ND		24.7	26.4		ng/L		107	40 - 150		
Perfluorotetradecanoic acid	ND		24.7	30.8		ng/L		125	40 - 150		
Perfluorobutanesulfonic acid	2.8		21.9	24.9		ng/L		101	40 - 150		
Perfluoropentanesulfonic acid	ND		23.3	23.3		ng/L		100	40 - 150		
Perfluorohexanesulfonic acid	0.68	J	22.6	22.6		ng/L		97	40 - 150		

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

Lab Sample ID: 480-207038-7 MS
Matrix: Water
Analysis Batch: 368303

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA
Prep Batch: 361317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid	ND		23.5	23.6		ng/L		100	40 - 150
Perfluorooctanesulfonic acid	2.1	J	22.9	26.7		ng/L		107	40 - 150
Perfluorononanesulfonic acid	ND		23.8	23.1		ng/L		97	40 - 150
Perfluorodecanesulfonic acid	ND		23.8	21.9		ng/L		92	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND		24.0	19.2		ng/L		80	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		92.7	90.9		ng/L		98	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		93.9	88.8		ng/L		95	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		94.9	122		ng/L		129	40 - 150
Perfluorooctanesulfonamide	ND		24.7	25.1		ng/L		102	40 - 150
NMeFOSA	ND		24.7	31.5		ng/L		128	40 - 150
N-ethylperfluoro-1-octanesulfonamide	ND		24.7	34.6		ng/L		140	40 - 150
NMeFOSAA	ND	F1	24.7	34.3		ng/L		139	40 - 150
NEtFOSAA	ND	F1	24.7	41.7	F1	ng/L		169	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		247	280		ng/L		113	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		247	273		ng/L		111	40 - 150
HFPO-DA	ND		98.7	106		ng/L		108	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		93.3	106		ng/L		114	40 - 150
Perfluoro-3-methoxypropanoic acid	ND		49.4	50.8		ng/L		103	40 - 150
Perfluoro(4-methoxybutanoic acid)	ND		49.4	45.6		ng/L		92	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND		49.4	66.5		ng/L		135	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		92.3	115		ng/L		125	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		93.3	94.8		ng/L		102	40 - 150
PFEESA	ND		44.0	51.0		ng/L		116	40 - 150
3:3 FTCA	ND		98.8	115		ng/L		117	40 - 150
5:3 FTCA	ND		494	671		ng/L		136	40 - 150
7:3 FTCA	ND		494	654		ng/L		132	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*75.2*		*20 - 150*
13C5 PFPeA	*91.4*		*20 - 150*
13C5 PFHxA	*81.6*		*20 - 150*
13C4 PFHpA	*90.5*		*20 - 150*
13C8 PFOA	*90.2*		*20 - 150*
13C9 PFNA	*85.4*		*20 - 150*
13C6 PFDA	*89.0*		*20 - 150*
13C7 PFUnA	*83.1*		*20 - 150*
13C2-PFDoDA	*88.3*		*20 - 150*

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

Lab Sample ID: 480-207038-7 MS
Matrix: Water
Analysis Batch: 368303

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA
Prep Batch: 361317

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFTeDA	71.5		20 - 150
13C3 PFBS	75.6		20 - 150
13C3 PFHxS	82.5		20 - 150
13C8 PFOS	77.5		20 - 150
13C8 FOSA	77.7		20 - 150
d3-NMeFOSAA	55.3		20 - 150
d5-NEtFOSAA	53.1		20 - 150
M2-4:2 FTS	84.1		20 - 150
M2-6:2 FTS	72.0		20 - 150
M2-8:2 FTS	55.2		20 - 150
13C3 HFPO-DA	83.2		20 - 150
d7-N-MeFOSE-M	57.2		20 - 150
d9-N-EtFOSE-M	55.6		20 - 150
d5-NEtPFOSA	29.6		20 - 150
d3-NMePFOSA	37.1		20 - 150

Lab Sample ID: 480-207038-7 MSD
Matrix: Water
Analysis Batch: 368303

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA
Prep Batch: 361317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	14		107	126		ng/L		105	40 - 150	11	30
Perfluoropentanoic acid	16		53.5	73.0	I	ng/L		107	40 - 150	17	30
Perfluorohexanoic acid	11		26.7	33.8		ng/L		85	40 - 150	7	30
Perfluoroheptanoic acid	5.3		26.7	29.6		ng/L		91	40 - 150	3	30
Perfluorooctanoic acid	12		26.7	41.0		ng/L		110	40 - 150	25	30
Perfluorononanoic acid	1.6	J	26.7	27.2		ng/L		96	40 - 150	5	30
Perfluorodecanoic acid	ND		26.7	30.0		ng/L		112	40 - 150	8	30
Perfluoroundecanoic acid	ND		26.7	30.3		ng/L		113	40 - 150	15	30
Perfluorododecanoic acid	ND		26.7	26.3		ng/L		98	40 - 150	9	30
Perfluorotridecanoic acid	ND		26.7	29.3		ng/L		110	40 - 150	10	30
Perfluorotetradecanoic acid	ND		26.7	30.3		ng/L		113	40 - 150	2	30
Perfluorobutanesulfonic acid	2.8		23.7	27.5		ng/L		104	40 - 150	10	30
Perfluoropentanesulfonic acid	ND		25.2	23.0		ng/L		91	40 - 150	1	30
Perfluorohexanesulfonic acid	0.68	J	24.4	24.5		ng/L		97	40 - 150	8	30
Perfluoroheptanesulfonic acid	ND		25.5	27.7		ng/L		109	40 - 150	16	30
Perfluorooctanesulfonic acid	2.1	J	24.8	31.4		ng/L		118	40 - 150	16	30
Perfluorononanesulfonic acid	ND		25.7	27.8		ng/L		108	40 - 150	19	30
Perfluorodecanesulfonic acid	ND		25.8	24.9		ng/L		96	40 - 150	13	30
Perfluorododecanesulfonic acid (PFDoS)	ND		25.9	21.2		ng/L		82	40 - 150	10	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		100	89.6		ng/L		89	40 - 150	1	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		102	93.5		ng/L		92	40 - 150	5	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		103	102		ng/L		100	40 - 150	18	30
Perfluorooctanesulfonamide	ND		26.7	26.0		ng/L		97	40 - 150	3	30
NMeFOSA	ND		26.7	35.5		ng/L		133	40 - 150	12	30

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

Lab Sample ID: 480-207038-7 MSD
Client Sample ID: GWS-5-03132023
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 368303
Prep Batch: 361317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-ethylperfluoro-1-octanesulfonamide	ND		26.7	34.8		ng/L		130	40 - 150	0	30
NMeFOSAA	ND	F1	26.7	41.5	F1	ng/L		155	40 - 150	19	30
NEtFOSAA	ND	F1	26.7	36.6		ng/L		137	40 - 150	13	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		267	295		ng/L		110	40 - 150	5	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		267	283		ng/L		106	40 - 150	4	30
HFPO-DA	ND		107	115		ng/L		108	40 - 150	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		101	136		ng/L		135	40 - 150	25	30
Perfluoro-3-methoxypropanoic acid	ND		53.5	57.4		ng/L		107	40 - 150	12	30
Perfluoro(4-methoxybutanoic acid)	ND		53.5	55.3		ng/L		103	40 - 150	19	30
Perfluoro-3,6-dioxaheptanoic acid	ND		53.5	57.0		ng/L		107	40 - 150	15	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		99.9	123		ng/L		123	40 - 150	7	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		101	104		ng/L		103	40 - 150	9	30
PFEESA	ND		47.6	45.1		ng/L		95	40 - 150	12	30
3:3 FTCA	ND		107	131		ng/L		123	40 - 150	13	30
5:3 FTCA	ND		535	571		ng/L		107	40 - 150	16	30
7:3 FTCA	ND		535	578		ng/L		108	40 - 150	12	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*71.8*		*20 - 150*
13C5 PFPeA	*79.4*		*20 - 150*
13C5 PFHxA	*91.2*		*20 - 150*
13C4 PFHpA	*84.1*		*20 - 150*
13C8 PFOA	*82.4*		*20 - 150*
13C9 PFNA	*86.1*		*20 - 150*
13C6 PFDA	*85.3*		*20 - 150*
13C7 PFUnA	*82.4*		*20 - 150*
13C2-PFDoDA	*88.5*		*20 - 150*
13C2 PFTeDA	*73.5*		*20 - 150*
13C3 PFBS	*88.7*		*20 - 150*
13C3 PFHxS	*94.7*		*20 - 150*
13C8 PFOS	*80.0*		*20 - 150*
13C8 FOSA	*91.9*		*20 - 150*
d3-NMeFOSAA	*63.0*		*20 - 150*
d5-NEtFOSAA	*67.3*		*20 - 150*
M2-4:2 FTS	*86.1*		*20 - 150*
M2-6:2 FTS	*116*		*20 - 150*
M2-8:2 FTS	*77.5*		*20 - 150*
13C3 HFPO-DA	*74.8*		*20 - 150*
d7-N-MeFOSE-M	*63.6*		*20 - 150*
d9-N-EtFOSE-M	*62.5*		*20 - 150*

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

Lab Sample ID: 480-207038-7 MSD
Matrix: Water
Analysis Batch: 368303

Client Sample ID: GWS-5-03132023
Prep Type: Total/NA
Prep Batch: 361317

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
d5-NEtPFOSA	40.4		20 - 150
d3-NMePFOSA	43.7		20 - 150

Lab Sample ID: MB 410-369007/1-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		8.0	2.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorooctanoic acid	ND		2.0	0.64	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorobutanesulfonic acid	ND		2.0	0.30	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		04/26/23 17:29	05/04/23 17:47	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		04/26/23 17:29	05/04/23 17:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		04/26/23 17:29	05/04/23 17:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
NMeFOSA	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
NMeFOSAA	ND		4.0	1.2	ng/L		04/26/23 17:29	05/04/23 17:47	1
NEtFOSAA	ND		2.0	0.70	ng/L		04/26/23 17:29	05/04/23 17:47	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
HFPO-DA	ND		8.0	2.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		04/26/23 17:29	05/04/23 17:47	1

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

Lab Sample ID: MB 410-369007/1-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		04/26/23 17:29	05/04/23 17:47	1
PFEESA	ND		4.0	0.50	ng/L		04/26/23 17:29	05/04/23 17:47	1
3:3 FTCA	ND		10	1.5	ng/L		04/26/23 17:29	05/04/23 17:47	1
5:3 FTCA	ND		50	10	ng/L		04/26/23 17:29	05/04/23 17:47	1
7:3 FTCA	ND		50	10	ng/L		04/26/23 17:29	05/04/23 17:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87.8*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C5 PFPeA	*91.7*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C5 PFHxA	*89.1*	*I*	*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C4 PFHpA	*92.0*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C8 PFOA	*74.6*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C9 PFNA	*82.7*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C6 PFDA	*79.1*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C7 PFUnA	*78.4*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C2-PFDoDA	*76.8*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C2 PFTeDA	*73.8*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C3 PFBS	*72.4*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C3 PFHxS	*88.6*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C8 PFOS	*85.9*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C8 FOSA	*90.0*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
d3-NMeFOSAA	*75.1*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
d5-NEtFOSAA	*76.1*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
M2-4:2 FTS	*79.5*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
M2-6:2 FTS	*102*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
M2-8:2 FTS	*69.4*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
13C3 HFPO-DA	*93.2*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
d7-N-MeFOSE-M	*72.3*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
d9-N-EtFOSE-M	*72.8*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
d5-NEtPFOSA	*58.1*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*
d3-NMePFOSA	*55.2*		*20 - 150*	*04/26/23 17:29*	*05/04/23 17:47*	*1*

Lab Sample ID: LCS 410-369007/2-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	100	108		ng/L		107	40 - 150
Perfluoropentanoic acid	50.1	57.5		ng/L		115	40 - 150
Perfluorohexanoic acid	25.0	23.4		ng/L		94	40 - 150
Perfluoroheptanoic acid	25.0	28.5		ng/L		114	40 - 150
Perfluorooctanoic acid	25.0	26.6		ng/L		106	40 - 150
Perfluorononanoic acid	25.0	27.5		ng/L		110	40 - 150
Perfluorodecanoic acid	25.0	25.7		ng/L		103	40 - 150
Perfluoroundecanoic acid	25.0	30.9		ng/L		123	40 - 150
Perfluorododecanoic acid	25.0	28.2		ng/L		113	40 - 150

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

Lab Sample ID: LCS 410-369007/2-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotridecanoic acid	25.0	28.4		ng/L		113	40 - 150
Perfluorotetradecanoic acid	25.0	27.3		ng/L		109	40 - 150
Perfluorobutanesulfonic acid	22.2	32.3		ng/L		146	40 - 150
Perfluoropentanesulfonic acid	23.6	24.9		ng/L		106	40 - 150
Perfluorohexanesulfonic acid	22.9	23.7		ng/L		104	40 - 150
Perfluoroheptanesulfonic acid	23.9	23.8		ng/L		100	40 - 150
Perfluorooctanesulfonic acid	23.2	24.0		ng/L		103	40 - 150
Perfluorononanesulfonic acid	24.1	25.2		ng/L		105	40 - 150
Perfluorodecanesulfonic acid	24.2	24.8		ng/L		103	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	24.3	24.7		ng/L		102	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	103		ng/L		110	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	107		ng/L		112	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	126		ng/L		131	40 - 150
Perfluorooctanesulfonamide	25.0	25.8		ng/L		103	40 - 150
NMeFOSA	25.0	36.8		ng/L		147	40 - 150
N-ethylperfluoro-1-octanesulfonamide	25.0	34.1		ng/L		136	40 - 150
NMeFOSAA	25.0	26.1		ng/L		104	40 - 150
NEtFOSAA	25.0	28.4		ng/L		114	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	285		ng/L		114	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	294		ng/L		117	40 - 150
HFPO-DA	100	110		ng/L		110	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	115		ng/L		122	40 - 150
Perfluoro-3-methoxypropanoic acid	50.1	61.6		ng/L		123	40 - 150
Perfluoro(4-methoxybutanoic acid)	50.1	56.9		ng/L		114	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	50.1	51.0		ng/L		102	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	111		ng/L		119	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	108		ng/L		115	40 - 150
PFEESA	44.6	45.0		ng/L		101	40 - 150
3:3 FTCA	100	136		ng/L		135	40 - 150
5:3 FTCA	501	606		ng/L		121	40 - 150
7:3 FTCA	501	612		ng/L		122	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*89.7*		*20 - 150*
13C5 PFPeA	*88.6*		*20 - 150*
13C5 PFHxA	*98.9*		*20 - 150*
13C4 PFHpA	*80.4*		*20 - 150*

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

Lab Sample ID: LCS 410-369007/2-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369007

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*87.8*		*20 - 150*
13C9 PFNA	*72.9*		*20 - 150*
13C6 PFDA	*88.9*		*20 - 150*
13C7 PFUnA	*85.2*		*20 - 150*
13C2-PFDoDA	*81.5*		*20 - 150*
13C2 PFTeDA	*80.0*		*20 - 150*
13C3 PFBS	*66.3*		*20 - 150*
13C3 PFHxS	*86.5*		*20 - 150*
13C8 PFOS	*86.8*		*20 - 150*
13C8 FOSA	*81.1*		*20 - 150*
d3-NMeFOSAA	*71.1*		*20 - 150*
d5-NEtFOSAA	*65.0*		*20 - 150*
M2-4:2 FTS	*78.7*		*20 - 150*
M2-6:2 FTS	*81.5*		*20 - 150*
M2-8:2 FTS	*65.7*		*20 - 150*
13C3 HFPO-DA	*91.4*		*20 - 150*
d7-N-MeFOSE-M	*68.4*		*20 - 150*
d9-N-EtFOSE-M	*68.2*		*20 - 150*
d5-NEtPFOSA	*54.1*		*20 - 150*
d3-NMePFOSA	*51.7*		*20 - 150*

Lab Sample ID: LLCS 410-369007/3-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369007

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	16.0	16.1		ng/L		101	40 - 150
Perfluoropentanoic acid	8.00	9.07		ng/L		113	40 - 150
Perfluorohexanoic acid	4.00	3.58		ng/L		90	40 - 150
Perfluoroheptanoic acid	4.00	4.15		ng/L		104	40 - 150
Perfluorooctanoic acid	4.00	3.97		ng/L		99	40 - 150
Perfluorononanoic acid	4.00	4.18		ng/L		104	40 - 150
Perfluorodecanoic acid	4.00	4.06		ng/L		101	40 - 150
Perfluoroundecanoic acid	4.00	4.20		ng/L		105	40 - 150
Perfluorododecanoic acid	4.00	4.02		ng/L		101	40 - 150
Perfluorotridecanoic acid	4.00	3.78		ng/L		95	40 - 150
Perfluorotetradecanoic acid	4.00	4.03		ng/L		101	40 - 150
Perfluorobutanesulfonic acid	3.55	3.88		ng/L		109	40 - 150
Perfluoropentanesulfonic acid	3.76	3.86		ng/L		102	40 - 150
Perfluorohexanesulfonic acid	3.66	4.22		ng/L		115	40 - 150
Perfluoroheptanesulfonic acid	3.81	4.03		ng/L		106	40 - 150
Perfluorooctanesulfonic acid	3.71	3.78		ng/L		102	40 - 150
Perfluorononanesulfonic acid	3.85	3.78		ng/L		98	40 - 150
Perfluorodecanesulfonic acid	3.86	4.04		ng/L		105	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.90		ng/L		101	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	14.2		ng/L		95	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	13.2		ng/L		87	40 - 150

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

Lab Sample ID: LLCS 410-369007/3-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369007

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	18.5		ng/L		120	40 - 150
Perfluorooctanesulfonamide	4.00	3.94		ng/L		98	40 - 150
NMeFOSA	4.00	4.59		ng/L		115	40 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	5.23		ng/L		131	40 - 150
NMeFOSAA	4.00	3.90	J	ng/L		98	40 - 150
NEtFOSAA	4.00	4.62	I	ng/L		116	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	45.6		ng/L		114	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	44.2		ng/L		111	40 - 150
HFPO-DA	16.0	15.7		ng/L		98	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	16.4		ng/L		109	40 - 150
Perfluoro-3-methoxypropanoic acid	8.00	8.73		ng/L		109	40 - 150
Perfluoro(4-methoxybutanoic acid)	8.00	8.04		ng/L		100	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	8.00	9.91		ng/L		124	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	16.3		ng/L		109	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	16.5		ng/L		109	40 - 150
PFEESA	7.12	7.42		ng/L		104	40 - 150
3:3 FTCA	16.0	22.6		ng/L		141	40 - 150
5:3 FTCA	80.0	111		ng/L		139	40 - 150
7:3 FTCA	80.0	101		ng/L		127	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*89.0*		*20 - 150*
13C5 PFPeA	*80.8*		*20 - 150*
13C5 PFHxA	*81.1*		*20 - 150*
13C4 PFHpA	*78.2*		*20 - 150*
13C8 PFOA	*75.7*		*20 - 150*
13C9 PFNA	*93.0*		*20 - 150*
13C6 PFDA	*87.1*		*20 - 150*
13C7 PFUnA	*83.4*		*20 - 150*
13C2-PFDoDA	*86.0*		*20 - 150*
13C2 PFTeDA	*81.5*		*20 - 150*
13C3 PFBS	*75.9*		*20 - 150*
13C3 PFHxS	*81.9*		*20 - 150*
13C8 PFOS	*87.4*		*20 - 150*
13C8 FOSA	*84.1*		*20 - 150*
d3-NMeFOSAA	*71.7*		*20 - 150*
d5-NEtFOSAA	*72.9*		*20 - 150*
M2-4:2 FTS	*74.1*		*20 - 150*
M2-6:2 FTS	*95.8*		*20 - 150*

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

Lab Sample ID: LLCS 410-369007/3-A
Matrix: Water
Analysis Batch: 372076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369007

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
M2-8:2 FTS	60.6		20 - 150
13C3 HFPO-DA	84.6		20 - 150
d7-N-MeFOSE-M	74.4		20 - 150
d9-N-EtFOSE-M	70.6		20 - 150
d5-NEtPFOSA	59.0		20 - 150
d3-NMePFOSA	61.4		20 - 150

QC Association Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

GC/MS VOA

Analysis Batch: 662169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-1	TB-03132023	Total/NA	Water	8260C	
480-207038-2	GWS-3-03132023	Total/NA	Water	8260C	
480-207038-3	GWS-2-03132023	Total/NA	Water	8260C	
480-207038-4	GWS-902-03132023	Total/NA	Water	8260C	
480-207038-5	GWS-4-03132023	Total/NA	Water	8260C	
480-207038-6	EB-03132023	Total/NA	Water	8260C	
480-207038-7	GWS-5-03132023	Total/NA	Water	8260C	
480-207038-8	GWS-6-03132023	Total/NA	Water	8260C	
480-207038-9	GWS-7-03132023	Total/NA	Water	8260C	
480-207038-10	GWS-8-03132023	Total/NA	Water	8260C	
480-207038-11	GWS-1-03162023	Total/NA	Water	8260C	
MB 480-662169/7	Method Blank	Total/NA	Water	8260C	
LCS 480-662169/5	Lab Control Sample	Total/NA	Water	8260C	
480-207038-7 MS	GWS-5-03132023	Total/NA	Water	8260C	
480-207038-7 MSD	GWS-5-03132023	Total/NA	Water	8260C	

LCMS

Prep Batch: 359319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-2	GWS-3-03132023	Total/NA	Water	1633	
480-207038-3 - RA	GWS-2-03132023	Total/NA	Water	1633	
480-207038-3 - DL	GWS-2-03132023	Total/NA	Water	1633	
480-207038-3	GWS-2-03132023	Total/NA	Water	1633	
480-207038-4	GWS-902-03132023	Total/NA	Water	1633	
480-207038-5	GWS-4-03132023	Total/NA	Water	1633	
480-207038-6	EB-03132023	Total/NA	Water	1633	
480-207038-8	GWS-6-03132023	Total/NA	Water	1633	
480-207038-9	GWS-7-03132023	Total/NA	Water	1633	
480-207038-10	GWS-8-03132023	Total/NA	Water	1633	
480-207038-11	GWS-1-03162023	Total/NA	Water	1633	
480-207038-12	EB-03162023	Total/NA	Water	1633	
MB 410-359319/1-A MBL	Method Blank	Total/NA	Water	1633	
LCS 410-359319/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-359319/3-A	Lab Control Sample	Total/NA	Water	1633	

Prep Batch: 361317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-7	GWS-5-03132023	Total/NA	Water	1633	
MB 410-361317/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-361317/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-361317/3-A	Lab Control Sample	Total/NA	Water	1633	
480-207038-7 MS	GWS-5-03132023	Total/NA	Water	1633	
480-207038-7 MSD	GWS-5-03132023	Total/NA	Water	1633	

Analysis Batch: 364073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-2	GWS-3-03132023	Total/NA	Water	1633	359319
480-207038-3	GWS-2-03132023	Total/NA	Water	1633	359319
480-207038-4	GWS-902-03132023	Total/NA	Water	1633	359319
480-207038-5	GWS-4-03132023	Total/NA	Water	1633	359319

LCMS (Continued)

Analysis Batch: 364073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-6	EB-03132023	Total/NA	Water	1633	359319
480-207038-8	GWS-6-03132023	Total/NA	Water	1633	359319
480-207038-9	GWS-7-03132023	Total/NA	Water	1633	359319
480-207038-10	GWS-8-03132023	Total/NA	Water	1633	359319
480-207038-11	GWS-1-03162023	Total/NA	Water	1633	359319
480-207038-12	EB-03162023	Total/NA	Water	1633	359319
MB 410-359319/1-A MBL	Method Blank	Total/NA	Water	1633	359319
LCS 410-359319/2-A	Lab Control Sample	Total/NA	Water	1633	359319
LLCS 410-359319/3-A	Lab Control Sample	Total/NA	Water	1633	359319

Analysis Batch: 367511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-3 - RA	GWS-2-03132023	Total/NA	Water	1633	359319
480-207038-3 - DL	GWS-2-03132023	Total/NA	Water	1633	359319

Analysis Batch: 368303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-7	GWS-5-03132023	Total/NA	Water	1633	361317
MB 410-361317/1-A	Method Blank	Total/NA	Water	1633	361317
LCS 410-361317/2-A	Lab Control Sample	Total/NA	Water	1633	361317
LLCS 410-361317/3-A	Lab Control Sample	Total/NA	Water	1633	361317
480-207038-7 MS	GWS-5-03132023	Total/NA	Water	1633	361317
480-207038-7 MSD	GWS-5-03132023	Total/NA	Water	1633	361317

Prep Batch: 369007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-3 - RE	GWS-2-03132023	Total/NA	Water	1633	
MB 410-369007/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-369007/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-369007/3-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 372076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207038-3 - RE	GWS-2-03132023	Total/NA	Water	1633	369007
MB 410-369007/1-A	Method Blank	Total/NA	Water	1633	369007
LCS 410-369007/2-A	Lab Control Sample	Total/NA	Water	1633	369007
LLCS 410-369007/3-A	Lab Control Sample	Total/NA	Water	1633	369007

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: TB-03132023
Lab Sample ID: 480-207038-1
Date Collected: 03/13/23 10:00
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 13:15

Client Sample ID: GWS-3-03132023
Lab Sample ID: 480-207038-2
Date Collected: 03/13/23 10:30
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 13:38
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 07:13

Client Sample ID: GWS-2-03132023
Lab Sample ID: 480-207038-3
Date Collected: 03/13/23 11:20
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	662169	CR	EET BUF	03/21/23 14:01
Total/NA	Prep	1633	RA		359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633	RA	1	367511	UUV6	ELLE	04/23/23 21:23
Total/NA	Prep	1633	DL		359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633	DL	10	367511	UUV6	ELLE	04/23/23 21:36
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 07:26
Total/NA	Prep	1633	RE		369007	U5HI	ELLE	04/26/23 17:29
Total/NA	Analysis	1633	RE	1	372076	UUV6	ELLE	05/04/23 21:30

Client Sample ID: GWS-902-03132023
Lab Sample ID: 480-207038-4
Date Collected: 03/13/23 11:25
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	662169	CR	EET BUF	03/21/23 14:25
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 07:39

Client Sample ID: GWS-4-03132023
Lab Sample ID: 480-207038-5
Date Collected: 03/13/23 12:00
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 14:48
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 07:52

Lab Chronicle

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Client Sample ID: EB-03132023
Date Collected: 03/13/23 12:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 15:12
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 08:06

Client Sample ID: GWS-5-03132023
Date Collected: 03/13/23 13:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 15:35
Total/NA	Prep	1633			361317	U5HI	ELLE	04/05/23 17:22
Total/NA	Analysis	1633		1	368303	UUV6	ELLE	04/25/23 17:09

Client Sample ID: GWS-6-03132023
Date Collected: 03/13/23 14:15
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 15:58
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 08:19

Client Sample ID: GWS-7-03132023
Date Collected: 03/13/23 14:40
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 16:20
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 08:32

Client Sample ID: GWS-8-03132023
Date Collected: 03/13/23 15:00
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 16:44
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 08:45

Client Sample ID: GWS-1-03162023
Date Collected: 03/16/23 11:30
Date Received: 03/18/23 09:00

Lab Sample ID: 480-207038-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	662169	CR	EET BUF	03/21/23 17:07

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: GWS-1-03162023
Lab Sample ID: 480-207038-11
Date Collected: 03/16/23 11:30
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 08:58

Client Sample ID: EB-03162023
Lab Sample ID: 480-207038-12
Date Collected: 03/16/23 12:00
Matrix: Water
Date Received: 03/18/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			359319	U5HI	ELLE	03/30/23 16:59
Total/NA	Analysis	1633		1	364073	UUV6	ELLE	04/14/23 09:11

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Accreditation/Certification Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23

Accreditation/Certification Summary

Client: CDM Smith Inc
Job ID: 480-207038-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Sample Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207038-1	TB-03132023	Water	03/13/23 10:00	03/18/23 09:00
480-207038-2	GWS-3-03132023	Water	03/13/23 10:30	03/18/23 09:00
480-207038-3	GWS-2-03132023	Water	03/13/23 11:20	03/18/23 09:00
480-207038-4	GWS-902-03132023	Water	03/13/23 11:25	03/18/23 09:00
480-207038-5	GWS-4-03132023	Water	03/13/23 12:00	03/18/23 09:00
480-207038-6	EB-03132023	Water	03/13/23 12:30	03/18/23 09:00
480-207038-7	GWS-5-03132023	Water	03/13/23 13:30	03/18/23 09:00
480-207038-8	GWS-6-03132023	Water	03/13/23 14:15	03/18/23 09:00
480-207038-9	GWS-7-03132023	Water	03/13/23 14:40	03/18/23 09:00
480-207038-10	GWS-8-03132023	Water	03/13/23 15:00	03/18/23 09:00
480-207038-11	GWS-1-03162023	Water	03/16/23 11:30	03/18/23 09:00
480-207038-12	EB-03162023	Water	03/16/23 12:00	03/18/23 09:00

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: CDM SMITH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-182725-38797.3
Client Contact: Lia Estrada	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: ~~Page 3 of 5~~ 1 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STANDARD			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: estradal@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA

480-207038 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	1633 - List of 40 (EPA 1633 Draft Method)	Tot	Special Instructions/Note:
Preservation Code:							A	N		
TB-03132023	3/13	1000		Water			X		3	
GWS-3-03132023	3/13	1030	G	Water			X	X	5	
GWS-2-03132023	3/13	1120	G	Water			X	X	5	
GWS-902-03132023	3/13	1125	G	Water			X	X	5	
GWS-4-03132023	3/13	1200	G	Water			X	X	5	
EB-03132023	3/13	1230	G	Water			X	X	5	
GWS-5-03132023	3/13	1330	G	Water			X	X	5	
GWS-5-03132023-MS	3/13	1335	G	Water		X	X	X	5	
GWS-5-03132023-MSD	3/13	1340	G	Water		X	X	X	5	
GWS-6-03132023	3/13	1415	G	Water			X	X	5	
GWS-7-03132023	3/13	1440	G	Water			X	X	5	

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)
NYSDEC CATEGORY A + B REPORTS REQUESTED

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/16/23 1810	CDM Smith		3-16-23 1810	EETN
2		3-17-23 1700	EETN		3/18/23 0900	TAB
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.0, 3.3

Ver: 06/08/2021

5/9/2023

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: CDM SMITH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-182725-38797.5
Client Contact: Lia Estrada	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page ~~5 of 5~~ 2 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STANDARD			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: estradal@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	1633 - List of 40 (EPA 1633 Draft Method)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
GW5-8-03132023	3/13	1500	G	Water			X	X	5	
GW5-1-03162023	3/16	1130	G				X	X	5	
EB-03162023	3/16	1200	G					X	2	

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

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

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC CATEGORY A + B REPORT REQUESTED

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/16/23 1810	CDM Smith		3-16-23 1810	EETN
2	Relinquished by:	Date/Time: 3-17-23 1700	Company EETN	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79227.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207038-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/6/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GWS-3-03132023 (480-207038-2)	3/13/23	10:30 Eastern		Water			X	X	2	
GWS-2-03132023 (480-207038-3)	3/13/23	11:20 Eastern		Water			X	X	2	
GWS-902-03132023 (480-207038-4)	3/13/23	11:25 Eastern		Water			X	X	2	
GWS-4-03132023 (480-207038-5)	3/13/23	12:00 Eastern		Water			X	X	2	
EB-03132023 (480-207038-6)	3/13/23	12:30 Eastern		Water			X	X	2	
GWS-5-03132023 (480-207038-7)	3/13/23	13:30 Eastern		Water			X	X	2	
GWS-5-03132023 (480-207038-7MS)	3/13/23	13:30 Eastern	MS	Water			X	X	2	
GWS-5-03132023 (480-207038-7MSD)	3/13/23	13:30 Eastern	MSD	Water			X	X	2	
GWS-6-03132023 (480-207038-8)	3/13/23	14:15 Eastern		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3-20-23 1600	TAB			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	3/21/23 0900	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fischer, Brian J	Carrier Tracking No(s)	COC No: 480-79227.2
Client Contact: Shipping/Receiving	Phone	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207038-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/6/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #			
Email:	WO #			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#			

Preservation Codes:

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

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GWS-7-03132023 (480-207038-9)	3/13/23	14:40 Eastern		Water			X	X	2	
GWS-8-03132023 (480-207038-10)	3/13/23	15:00 Eastern		Water			X	X	2	
GWS-1-03162023 (480-207038-11)	3/16/23	11:30 Eastern		Water			X	X	2	
EB-03162023 (480-207038-12)	3/16/23	12:00 Eastern		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by:	Date/Time:	Company
	3-20-23 1600	TAS			
Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time 3/21/23 0910	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207038-1

Login Number: 207038
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207038-1

Login Number: 207038
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/21/23 02:01 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: William A Wert
CDM Smith Inc
11 British American Blvd
Suite 200
Latham, New York 12110

Generated 8/3/2023 4:58:06 PM Revision 2

JOB DESCRIPTION

CDM Smith - Speedy's Cleaners

JOB NUMBER

480-207486-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

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 Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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 Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
8/3/2023 4:58:06 PM
Revision 2

Authorized for release by
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
QC Sample Results 10
QC Association Summary 14
Lab Chronicle 16
Certification Summary 17
Method Summary 18
Sample Summary 19
Chain of Custody 20
Receipt Checklists 21

Definitions/Glossary

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

Qualifiers

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-207486-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207486-1

Revision
This report has been revised to only report the Total Organic Carbon results.

Revision II
This report has been revised to include the results for Nitrite.

Receipt
The samples were received on 4/4/2023 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

HPLC/IC
Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828109-MW-9-9-19-040323 (480-207486-1), 828109-MW-10-3-8-040323 (480-207486-2) and 828109-MW-11-3-13-040323 (480-207486-3). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method SM 2320B: The continuing calibration blank (CCB) for analytical batch 480-664735 contained Alkalinity, Total above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 353.2: Analysis of the following samples were performed outside of the analytical holding time due to lab error : 828109-MW-9-9-19-040323 (480-207486-1) and 828109-MW-11-3-13-040323 (480-207486-3).

Method 353.2: Analysis of the following sample was performed outside of the analytical holding time due to lab error : 828109-MW-10-3-8-040323 (480-207486-2).

Method 353.2: The following samples were analyzed outside of analytical holding time due to Lab error: 828109-MW-9-9-19-040323 (480-207486-1), 828109-MW-10-3-8-040323 (480-207486-2) and 828109-MW-11-3-13-040323 (480-207486-3).

Method 353.2: The following samples were analyzed outside of analytical holding time due to Lab Error: 828109-MW-9-9-19-040323 (480-207486-1), 828109-MW-10-3-8-040323 (480-207486-2) and 828109-MW-11-3-13-040323 (480-207486-3).

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

Detection Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207486-1

Client Sample ID: 828109-MW-9-9-19-040323 — Lab Sample ID: 480-207486-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1200		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	88.2		40.0	7.0	mg/L	20		300.0	Total/NA
Nitrate as N	1.1	H	0.050	0.020	mg/L	1	☼	353.2	Total/NA
Alkalinity, Total	269	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate	269	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	1.3		1.0	0.43	mg/L	1		SM 5310C	Total/NA

Client Sample ID: 828109-MW-10-3-8-040323 — Lab Sample ID: 480-207486-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	266		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	105		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	9.0	H	0.050	0.020	mg/L	1	☼	353.2	Total/NA
Nitrite as N	0.033	J H	0.050	0.020	mg/L	1		353.2	Total/NA
Alkalinity, Total	227	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate	227	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	5.1		1.0	0.43	mg/L	1		SM 5310C	Total/NA

Client Sample ID: 828109-MW-11-3-13-040323 — Lab Sample ID: 480-207486-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1430		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	261		40.0	7.0	mg/L	20		300.0	Total/NA
Nitrate as N	0.027	J H	0.050	0.020	mg/L	1	☼	353.2	Total/NA
Alkalinity, Total	254	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Alkalinity, Bicarbonate	254	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	9.2		1.0	0.43	mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-9-9-19-040323
Lab Sample ID: 480-207486-1
Date Collected: 04/03/23 15:25
Matrix: Water
Date Received: 04/04/23 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**1200**		10.0	5.6	mg/L			04/11/23 16:16	20
Sulfate (EPA 300.0)	**88.2**		40.0	7.0	mg/L			04/11/23 16:16	20
Nitrate as N (EPA 353.2)	**1.1**	**H**	0.050	0.020	mg/L	☼		04/05/23 20:16	1
Nitrite as N (EPA 353.2)	ND	H	0.050	0.020	mg/L			04/07/23 14:12	1
Alkalinity, Total (SM 2320B)	**269**	**B ^2**	5.0	0.79	mg/L			04/10/23 13:27	1
Alkalinity, Bicarbonate (SM 2320B)	**269**	**B ^2**	5.0	0.79	mg/L			04/10/23 13:27	1
Alkalinity, Carbonate (SM 2320B)	ND		5.0	0.79	mg/L			04/10/23 13:27	1
Hydroxide Alkalinity (SM 2320B)	ND		5.0	0.79	mg/L			04/10/23 13:27	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			04/10/23 13:00	1
Total Organic Carbon (SM 5310C)	**1.3**		1.0	0.43	mg/L			04/07/23 05:25	1

Client Sample Results

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207486-2
Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/04/23 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**266**		2.5	1.4	mg/L			04/11/23 16:35	5
Sulfate (EPA 300.0)	**105**		10.0	1.7	mg/L			04/11/23 16:35	5
Nitrate as N (EPA 353.2)	**9.0**	**H**	0.050	0.020	mg/L	☼		04/05/23 20:15	1
Nitrite as N (EPA 353.2)	**0.033**	**J H**	0.050	0.020	mg/L			04/07/23 15:05	1
Alkalinity, Total (SM 2320B)	**227**	**B ^2**	5.0	0.79	mg/L			04/10/23 13:33	1
Alkalinity, Bicarbonate (SM 2320B)	**227**	**B ^2**	5.0	0.79	mg/L			04/10/23 13:33	1
Alkalinity, Carbonate (SM 2320B)	ND		5.0	0.79	mg/L			04/10/23 13:33	1
Hydroxide Alkalinity (SM 2320B)	ND		5.0	0.79	mg/L			04/10/23 13:33	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			04/10/23 13:00	1
Total Organic Carbon (SM 5310C)	**5.1**		1.0	0.43	mg/L			04/07/23 05:54	1

Client Sample Results

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207486-3
Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/04/23 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**1430**		10.0	5.6	mg/L			04/11/23 16:55	20
Sulfate (EPA 300.0)	**261**		40.0	7.0	mg/L			04/11/23 16:55	20
Nitrate as N (EPA 353.2)	**0.027**	**J H**	0.050	0.020	mg/L	☼		04/05/23 20:17	1
Nitrite as N (EPA 353.2)	ND	H	0.050	0.020	mg/L			04/05/23 20:17	1
Alkalinity, Total (SM 2320B)	**254**	**B ^2**	5.0	0.79	mg/L			04/10/23 13:40	1
Alkalinity, Bicarbonate (SM 2320B)	**254**	**B ^2**	5.0	0.79	mg/L			04/10/23 13:40	1
Alkalinity, Carbonate (SM 2320B)	ND		5.0	0.79	mg/L			04/10/23 13:40	1
Hydroxide Alkalinity (SM 2320B)	ND		5.0	0.79	mg/L			04/10/23 13:40	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			04/10/23 13:00	1
Total Organic Carbon (SM 5310C)	**9.2**		1.0	0.43	mg/L			04/07/23 06:24	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-664679/28
Matrix: Water
Analysis Batch: 664679

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			04/11/23 18:53	1
Sulfate	ND		2.0	0.35	mg/L			04/11/23 18:53	1

Lab Sample ID: MB 480-664679/4
Matrix: Water
Analysis Batch: 664679

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			04/11/23 11:02	1
Sulfate	ND		2.0	0.35	mg/L			04/11/23 11:02	1

Lab Sample ID: LCS 480-664679/29
Matrix: Water
Analysis Batch: 664679

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.93		mg/L		104	90 - 110
Sulfate	50.1	52.60		mg/L		105	90 - 110

Lab Sample ID: LCS 480-664679/5
Matrix: Water
Analysis Batch: 664679

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.96		mg/L		104	90 - 110
Sulfate	50.1	52.60		mg/L		105	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-664382/3
Matrix: Water
Analysis Batch: 664382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			04/07/23 13:06	1

Lab Sample ID: MB 480-664382/45
Matrix: Water
Analysis Batch: 664382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			04/07/23 14:03	1

Lab Sample ID: MB 480-664382/82
Matrix: Water
Analysis Batch: 664382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			04/07/23 14:54	1

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 480-664382/4
Matrix: Water
Analysis Batch: 664382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	1.50	1.56		mg/L		104	90 - 110

Lab Sample ID: LCS 480-664382/46
Matrix: Water
Analysis Batch: 664382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	1.50	1.55		mg/L		103	90 - 110

Lab Sample ID: LCS 480-664382/83
Matrix: Water
Analysis Batch: 664382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	1.50	1.56		mg/L		104	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-664735/4
Matrix: Water
Analysis Batch: 664735

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	1.76	J	5.0	0.79	mg/L			04/10/23 13:14	1
Alkalinity, Bicarbonate	1.76	J	5.0	0.79	mg/L			04/10/23 13:14	1
Alkalinity, Carbonate	ND		5.0	0.79	mg/L			04/10/23 13:14	1
Hydroxide Alkalinity	ND		5.0	0.79	mg/L			04/10/23 13:14	1

Lab Sample ID: LCS 480-664735/5
Matrix: Water
Analysis Batch: 664735

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	100	107.8		mg/L		108	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-664578/27
Matrix: Water
Analysis Batch: 664578

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			04/10/23 13:00	1

Lab Sample ID: MB 480-664578/3
Matrix: Water
Analysis Batch: 664578

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			04/10/23 13:00	1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 480-664578/28
Matrix: Water
Analysis Batch: 664578

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	6.00	6.00		mg/L		100	90 - 110

Lab Sample ID: LCS 480-664578/4
Matrix: Water
Analysis Batch: 664578

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	6.00	6.00		mg/L		100	90 - 110

Lab Sample ID: 480-207486-2 MS
Matrix: Water
Analysis Batch: 664578

Client Sample ID: 828109-MW-10-3-8-040323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		1.90	1.20		mg/L		63	40 - 150

Lab Sample ID: 480-207486-1 DU
Matrix: Water
Analysis Batch: 664578

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

Method: SM 5310C - TOC

Lab Sample ID: MB 480-664519/28
Matrix: Water
Analysis Batch: 664519

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			04/07/23 03:57	1

Lab Sample ID: MB 480-664519/4
Matrix: Water
Analysis Batch: 664519

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			04/06/23 16:17	1

Lab Sample ID: MB 480-664519/52
Matrix: Water
Analysis Batch: 664519

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			04/07/23 15:41	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-664519/29
Matrix: Water
Analysis Batch: 664519

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	57.32		mg/L		96	90 - 110

Lab Sample ID: LCS 480-664519/5
Matrix: Water
Analysis Batch: 664519

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	57.18		mg/L		95	90 - 110

Lab Sample ID: LCS 480-664519/53
Matrix: Water
Analysis Batch: 664519

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	57.40		mg/L		96	90 - 110

QC Association Summary

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

General Chemistry

Analysis Batch: 664382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-1	828109-MW-9-9-19-040323	Total/NA	Water	353.2	
480-207486-2	828109-MW-10-3-8-040323	Total/NA	Water	353.2	
MB 480-664382/3	Method Blank	Total/NA	Water	353.2	
MB 480-664382/45	Method Blank	Total/NA	Water	353.2	
MB 480-664382/82	Method Blank	Total/NA	Water	353.2	
LCS 480-664382/4	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-664382/46	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-664382/83	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 664519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-1	828109-MW-9-9-19-040323	Total/NA	Water	SM 5310C	
480-207486-2	828109-MW-10-3-8-040323	Total/NA	Water	SM 5310C	
480-207486-3	828109-MW-11-3-13-040323	Total/NA	Water	SM 5310C	
MB 480-664519/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-664519/4	Method Blank	Total/NA	Water	SM 5310C	
MB 480-664519/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-664519/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-664519/5	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-664519/53	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 664578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-1	828109-MW-9-9-19-040323	Total/NA	Water	SM 4500 S2 F	
480-207486-2	828109-MW-10-3-8-040323	Total/NA	Water	SM 4500 S2 F	
480-207486-3	828109-MW-11-3-13-040323	Total/NA	Water	SM 4500 S2 F	
MB 480-664578/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-664578/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-664578/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-664578/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-207486-2 MS	828109-MW-10-3-8-040323	Total/NA	Water	SM 4500 S2 F	
480-207486-1 DU	828109-MW-9-9-19-040323	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 664621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-1	828109-MW-9-9-19-040323	Total/NA	Water	353.2	
480-207486-2	828109-MW-10-3-8-040323	Total/NA	Water	353.2	
480-207486-3	828109-MW-11-3-13-040323	Total/NA	Water	353.2	

Analysis Batch: 664623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-3	828109-MW-11-3-13-040323	Total/NA	Water	353.2	

Analysis Batch: 664679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-1	828109-MW-9-9-19-040323	Total/NA	Water	300.0	
480-207486-2	828109-MW-10-3-8-040323	Total/NA	Water	300.0	
480-207486-3	828109-MW-11-3-13-040323	Total/NA	Water	300.0	
MB 480-664679/28	Method Blank	Total/NA	Water	300.0	
MB 480-664679/4	Method Blank	Total/NA	Water	300.0	
LCS 480-664679/29	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 664679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-664679/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 664735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207486-1	828109-MW-9-9-19-040323	Total/NA	Water	SM 2320B	
480-207486-2	828109-MW-10-3-8-040323	Total/NA	Water	SM 2320B	
480-207486-3	828109-MW-11-3-13-040323	Total/NA	Water	SM 2320B	
MB 480-664735/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-664735/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-9-9-19-040323
Lab Sample ID: 480-207486-1

Date Collected: 04/03/23 15:25
Matrix: Water
Date Received: 04/04/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		20	664679	RJS	EET BUF	04/11/23 16:16
Total/NA	Analysis	353.2		1	664621	IMZ	EET BUF	04/05/23 20:16
Total/NA	Analysis	353.2		1	664382	IMZ	EET BUF	04/07/23 14:12
Total/NA	Analysis	SM 2320B		1	664735	MT	EET BUF	04/10/23 13:27
Total/NA	Analysis	SM 4500 S2 F		1	664578	EV	EET BUF	04/10/23 13:00
Total/NA	Analysis	SM 5310C		1	664519	KER	EET BUF	04/07/23 05:25

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207486-2

Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/04/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	664679	RJS	EET BUF	04/11/23 16:35
Total/NA	Analysis	353.2		1	664621	IMZ	EET BUF	04/05/23 20:15
Total/NA	Analysis	353.2		1	664382	IMZ	EET BUF	04/07/23 15:05
Total/NA	Analysis	SM 2320B		1	664735	MT	EET BUF	04/10/23 13:33
Total/NA	Analysis	SM 4500 S2 F		1	664578	EV	EET BUF	04/10/23 13:00
Total/NA	Analysis	SM 5310C		1	664519	KER	EET BUF	04/07/23 05:54

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207486-3

Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/04/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		20	664679	RJS	EET BUF	04/11/23 16:55
Total/NA	Analysis	353.2		1	664621	IMZ	EET BUF	04/05/23 20:17
Total/NA	Analysis	353.2		1	664623	IMZ	EET BUF	04/05/23 20:17
Total/NA	Analysis	SM 2320B		1	664735	MT	EET BUF	04/10/23 13:40
Total/NA	Analysis	SM 4500 S2 F		1	664578	EV	EET BUF	04/10/23 13:00
Total/NA	Analysis	SM 5310C		1	664519	KER	EET BUF	04/07/23 06:24

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith Inc
Job ID: 480-207486-1
Project/Site: CDM Smith - Speedy's Cleaners

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Alkalinity, Bicarbonate
SM 2320B		Water	Alkalinity, Carbonate
SM 2320B		Water	Hydroxide Alkalinity

Method Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207486-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET BUF
353.2	Nitrate	EPA	EET BUF
353.2	Nitrogen, Nitrite	EPA	EET BUF
SM 2320B	Alkalinity	SM	EET BUF
SM 4500 S2 F	Sulfide, Total	SM	EET BUF
SM 5310C	TOC	SM	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207486-1	828109-MW-9-9-19-040323	Water	04/03/23 15:25	04/04/23 11:00
480-207486-2	828109-MW-10-3-8-040323	Water	04/03/23 12:05	04/04/23 11:00
480-207486-3	828109-MW-11-3-13-040323	Water	04/03/23 12:08	04/04/23 11:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JCG / MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.1
Client Contact: William Wert	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/14/23			
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone: (607) 239-3964	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
M - Hexane
N - None
O - other (specify)

480-207489 Chain of Custody

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS - Local Method	300.0_28D - Cl/SO4	8310C - TOC	SM4500_S2_F - Sulfide	353.2 - Nitrate/nitrite	2320B - Alk	8260C - TCL VOCs	1010A, 6012A, 9012B, 9045C	1633 -	6010C, 7470A, 6081B, 81	9012A -	9081B, 8270D	Total Number of cont	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A	CB	N	N	N/A	N	N	N	N	N		
828109-MW-9-9-19-040323	4/3/23	15:25	G	Water					X	X	X	X	X							6	Short hold
~~828109-MW-9-9-19-040323-MS~~	~~4/3/23~~	~~15:25~~		~~Water~~																	
~~828109-MW-9-9-19-040323-MSD~~	~~4/3/23~~	~~15:25~~		~~Water~~																	
828109-MW-10-3-8-040323	4/3/23	12:05	G	Water					X	X	X	X	X							6	Short hold
828109-MW-11-3-13-040323	4/3/23	12:08	G	Water					X	X	X	X	X							6	Short hold
				Solid																	
				Water																	

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

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

Deliverable Requested: I, II, III, IV, Other (specify) Cat B - NYSDEC EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 4/3/23 18:43	Company: CDM Smith	Received by:	Date/Time: 4/4/23 8:00	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207486-1

Login Number: 207486
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: William A Wert
CDM Smith Inc
11 British American Blvd
Suite 200
Latham, New York 12110

Generated 4/11/2023 4:34:26 PM

JOB DESCRIPTION

CDM Smith - Speedy's Cleaners

JOB NUMBER

480-207520-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

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 Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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 Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
4/11/2023 4:34:26 PM

Authorized for release by
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 20
QC Sample Results 21
QC Association Summary 34
Lab Chronicle 35
Certification Summary 37
Method Summary 38
Sample Summary 39
Chain of Custody 40
Receipt Checklists 42

Definitions/Glossary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A- L low-level specifications.

Glossary

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

Job ID: 480-207520-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207520-1

Comments
No additional comments.

Receipt
The samples were received on 4/5/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-664088 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon tetrachloride, Chloromethane, Methylcyclohexane, Trichlorofluoromethane and Vinyl chloride. The sample associated with this CCV was non-detects for the affected analytes; therefore, the data has been reported. The associated sample is impacted: 828109-IDW-SOIL-040423 (480-207520-9).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-664297 recovered outside acceptance criteria, low biased, for Naphthalene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect or below the RL for the analyte(s), the data are reported.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: 828109-MW-11-3-13-040323 (480-207520-4) and 828109-IDW-WW-040423 (480-207520-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828109-MW-10-3-8-040323 (480-207520-3), 828109-MW-905-8.5-18.5-040323 (480-207520-5) and 828109-MW-3-8-18-040423 (480-207520-6). Elevated reporting limits (RLs) are provided.

Method 8260C: Due to the coelution Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 664301. The following samples were affected : 828109-MW-5-8.5-18.5-040323 (480-207520-1) and 828109-MW-9-9-19-040323 (480-207520-2).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: 828109-MW-5-8.5-18.5-040323 (480-207520-1). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-5-8.5-18.5-040323 — Lab Sample ID: 480-207520-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	46		10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	370		10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	12		10	4.6	ug/L	10		8260C	Total/NA

Client Sample ID: 828109-MW-9-9-19-040323 — Lab Sample ID: 480-207520-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.56	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.8		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.2	F1	1.0	0.36	ug/L	1		8260C	Total/NA

Client Sample ID: 828109-MW-10-3-8-040323 — Lab Sample ID: 480-207520-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	56		4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	110		4.0	1.4	ug/L	4		8260C	Total/NA
Trichloroethene	12		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: 828109-MW-11-3-13-040323 — Lab Sample ID: 480-207520-4

No Detections.

Client Sample ID: 828109-MW-905-8.5-18.5-040323 — Lab Sample ID: 480-207520-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	40		10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	370		10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	13		10	4.6	ug/L	10		8260C	Total/NA

Client Sample ID: 828109-MW-3-8-18-040423 — Lab Sample ID: 480-207520-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	68		2.0	1.6	ug/L	2		8260C	Total/NA
Cyclohexane	0.71	J	2.0	0.36	ug/L	2		8260C	Total/NA
Naphthalene	1.3	J	2.0	0.86	ug/L	2		8260C	Total/NA
Vinyl chloride	39		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-207520-7

No Detections.

Client Sample ID: 828109-IDW-WW-040423 — Lab Sample ID: 480-207520-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	40	12	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	8.0		4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	24		4.0	1.4	ug/L	4		8260C	Total/NA

Client Sample ID: 828109-IDW-SOIL-040423 — Lab Sample ID: 480-207520-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.52	J B vs	6.0	0.37	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-5-8.5-18.5-040323
Lab Sample ID: 480-207520-1
Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			04/07/23 17:54	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			04/07/23 17:54	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			04/07/23 17:54	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			04/07/23 17:54	10
1,1-Dichloroethane	ND		10	3.8	ug/L			04/07/23 17:54	10
1,1-Dichloroethene	ND		10	2.9	ug/L			04/07/23 17:54	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			04/07/23 17:54	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			04/07/23 17:54	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			04/07/23 17:54	10
1,2-Dibromoethane	ND		10	7.3	ug/L			04/07/23 17:54	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			04/07/23 17:54	10
1,2-Dichloroethane	ND		10	2.1	ug/L			04/07/23 17:54	10
1,2-Dichloropropane	ND		10	7.2	ug/L			04/07/23 17:54	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			04/07/23 17:54	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			04/07/23 17:54	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			04/07/23 17:54	10
2-Butanone (MEK)	ND	*+	100	13	ug/L			04/07/23 17:54	10
2-Hexanone	ND		50	12	ug/L			04/07/23 17:54	10
4-Isopropyltoluene	ND		10	3.1	ug/L			04/07/23 17:54	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			04/07/23 17:54	10
Acetone	ND		100	30	ug/L			04/07/23 17:54	10
Benzene	ND		10	4.1	ug/L			04/07/23 17:54	10
Bromodichloromethane	ND		10	3.9	ug/L			04/07/23 17:54	10
Bromoform	ND		10	2.6	ug/L			04/07/23 17:54	10
Bromomethane	ND		10	6.9	ug/L			04/07/23 17:54	10
Carbon disulfide	ND		10	1.9	ug/L			04/07/23 17:54	10
Carbon tetrachloride	ND		10	2.7	ug/L			04/07/23 17:54	10
Chlorobenzene	ND		10	7.5	ug/L			04/07/23 17:54	10
Chloroethane	ND		10	3.2	ug/L			04/07/23 17:54	10
Chloroform	ND		10	3.4	ug/L			04/07/23 17:54	10
Chloromethane	ND		10	3.5	ug/L			04/07/23 17:54	10
cis-1,2-Dichloroethene	**46**		10	8.1	ug/L			04/07/23 17:54	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			04/07/23 17:54	10
Cyclohexane	ND		10	1.8	ug/L			04/07/23 17:54	10
Dibromochloromethane	ND		10	3.2	ug/L			04/07/23 17:54	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			04/07/23 17:54	10
Ethylbenzene	ND		10	7.4	ug/L			04/07/23 17:54	10
Isopropylbenzene	ND		10	7.9	ug/L			04/07/23 17:54	10
m,p-Xylene	ND		20	6.6	ug/L			04/07/23 17:54	10
Methyl acetate	ND		25	13	ug/L			04/07/23 17:54	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			04/07/23 17:54	10
Methylcyclohexane	ND		10	1.6	ug/L			04/07/23 17:54	10
Methylene Chloride	ND		10	4.4	ug/L			04/07/23 17:54	10
Naphthalene	ND		10	4.3	ug/L			04/07/23 17:54	10
n-Butylbenzene	ND		10	6.4	ug/L			04/07/23 17:54	10
N-Propylbenzene	ND		10	6.9	ug/L			04/07/23 17:54	10
o-Xylene	ND		10	7.6	ug/L			04/07/23 17:54	10
sec-Butylbenzene	ND		10	7.5	ug/L			04/07/23 17:54	10
Styrene	ND		10	7.3	ug/L			04/07/23 17:54	10

Client Sample ID: 828109-MW-5-8.5-18.5-040323 — **Lab Sample ID: 480-207520-1**
Date Collected: 04/03/23 15:35 — **Matrix: Water**
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		10	8.1	ug/L			04/07/23 17:54	10
Tetrachloroethene	**370**		10	3.6	ug/L			04/07/23 17:54	10
Toluene	ND		10	5.1	ug/L			04/07/23 17:54	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			04/07/23 17:54	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			04/07/23 17:54	10
Trichloroethene	**12**		10	4.6	ug/L			04/07/23 17:54	10
Trichlorofluoromethane	ND		10	8.8	ug/L			04/07/23 17:54	10
Vinyl chloride	ND		10	9.0	ug/L			04/07/23 17:54	10
Xylenes, Total	ND		20	6.6	ug/L			04/07/23 17:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/23 17:54*	*10*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*04/07/23 17:54*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/07/23 17:54*	*10*

Client Sample ID: 828109-MW-9-9-19-040323 — **Lab Sample ID: 480-207520-2**
Date Collected: 04/03/23 15:25 — **Matrix: Water**
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	1.0	0.82	ug/L			04/07/23 18:17	1
1,1,2,2-Tetrachloroethane	ND	F1	1.0	0.21	ug/L			04/07/23 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/23 18:17	1
1,1,2-Trichloroethane	ND	F1	1.0	0.23	ug/L			04/07/23 18:17	1
1,1-Dichloroethane	ND	F1	1.0	0.38	ug/L			04/07/23 18:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/23 18:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/23 18:17	1
1,2,4-Trimethylbenzene	ND	F1	1.0	0.75	ug/L			04/07/23 18:17	1
1,2-Dibromo-3-Chloropropane	ND	F1	1.0	0.39	ug/L			04/07/23 18:17	1
1,2-Dibromoethane	ND	F1	1.0	0.73	ug/L			04/07/23 18:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/23 18:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/23 18:17	1
1,2-Dichloropropane	ND	F1	1.0	0.72	ug/L			04/07/23 18:17	1
1,3,5-Trimethylbenzene	ND	F1	1.0	0.77	ug/L			04/07/23 18:17	1
1,3-Dichlorobenzene	ND	F1	1.0	0.78	ug/L			04/07/23 18:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/23 18:17	1
2-Butanone (MEK)	ND	*+	10	1.3	ug/L			04/07/23 18:17	1
2-Hexanone	ND	F1	5.0	1.2	ug/L			04/07/23 18:17	1
4-Isopropyltoluene	ND	F1	1.0	0.31	ug/L			04/07/23 18:17	1
4-Methyl-2-pentanone (MIBK)	ND	F1	5.0	2.1	ug/L			04/07/23 18:17	1
Acetone	ND		10	3.0	ug/L			04/07/23 18:17	1
Benzene	ND		1.0	0.41	ug/L			04/07/23 18:17	1
Bromodichloromethane	ND	F1	1.0	0.39	ug/L			04/07/23 18:17	1
Bromoform	ND		1.0	0.26	ug/L			04/07/23 18:17	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/23 18:17	1
Carbon disulfide	ND	F1 F2	1.0	0.19	ug/L			04/07/23 18:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/23 18:17	1
Chlorobenzene	ND	F1	1.0	0.75	ug/L			04/07/23 18:17	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/23 18:17	1

Client Sample ID: 828109-MW-9-9-19-040323
Lab Sample ID: 480-207520-2

Date Collected: 04/03/23 15:25
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**0.56**	**J**	1.0	0.34	ug/L			04/07/23 18:17	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/23 18:17	1
cis-1,2-Dichloroethene	**4.8**		1.0	0.81	ug/L			04/07/23 18:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/23 18:17	1
Cyclohexane	ND		1.0	0.18	ug/L			04/07/23 18:17	1
Dibromochloromethane	ND	F1	1.0	0.32	ug/L			04/07/23 18:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/07/23 18:17	1
Ethylbenzene	ND	F1	1.0	0.74	ug/L			04/07/23 18:17	1
Isopropylbenzene	ND	F1	1.0	0.79	ug/L			04/07/23 18:17	1
m,p-Xylene	ND	F1	2.0	0.66	ug/L			04/07/23 18:17	1
Methyl acetate	ND		2.5	1.3	ug/L			04/07/23 18:17	1
Methyl tert-butyl ether	ND	F1	1.0	0.16	ug/L			04/07/23 18:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/07/23 18:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/23 18:17	1
Naphthalene	ND		1.0	0.43	ug/L			04/07/23 18:17	1
n-Butylbenzene	ND	F1	1.0	0.64	ug/L			04/07/23 18:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/07/23 18:17	1
o-Xylene	ND	F1	1.0	0.76	ug/L			04/07/23 18:17	1
sec-Butylbenzene	ND	F1	1.0	0.75	ug/L			04/07/23 18:17	1
Styrene	ND	F1	1.0	0.73	ug/L			04/07/23 18:17	1
tert-Butylbenzene	ND	F1	1.0	0.81	ug/L			04/07/23 18:17	1
Tetrachloroethene	**4.2**	**F1**	1.0	0.36	ug/L			04/07/23 18:17	1
Toluene	ND		1.0	0.51	ug/L			04/07/23 18:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/23 18:17	1
trans-1,3-Dichloropropene	ND	F1	1.0	0.37	ug/L			04/07/23 18:17	1
Trichloroethene	ND	F1	1.0	0.46	ug/L			04/07/23 18:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/23 18:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/23 18:17	1
Xylenes, Total	ND	F1	2.0	0.66	ug/L			04/07/23 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/23 18:17*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*04/07/23 18:17*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/07/23 18:17*	*1*

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207520-3

Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			04/07/23 16:30	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			04/07/23 16:30	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			04/07/23 16:30	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			04/07/23 16:30	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			04/07/23 16:30	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			04/07/23 16:30	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			04/07/23 16:30	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			04/07/23 16:30	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			04/07/23 16:30	4

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207520-3
Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		4.0	2.9	ug/L			04/07/23 16:30	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			04/07/23 16:30	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			04/07/23 16:30	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			04/07/23 16:30	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			04/07/23 16:30	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			04/07/23 16:30	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			04/07/23 16:30	4
2-Butanone (MEK)	ND		40	5.3	ug/L			04/07/23 16:30	4
2-Hexanone	ND		20	5.0	ug/L			04/07/23 16:30	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			04/07/23 16:30	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			04/07/23 16:30	4
Acetone	ND		40	12	ug/L			04/07/23 16:30	4
Benzene	ND		4.0	1.6	ug/L			04/07/23 16:30	4
Bromodichloromethane	ND		4.0	1.6	ug/L			04/07/23 16:30	4
Bromoform	ND		4.0	1.0	ug/L			04/07/23 16:30	4
Bromomethane	ND		4.0	2.8	ug/L			04/07/23 16:30	4
Carbon disulfide	ND		4.0	0.76	ug/L			04/07/23 16:30	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			04/07/23 16:30	4
Chlorobenzene	ND		4.0	3.0	ug/L			04/07/23 16:30	4
Chloroethane	ND		4.0	1.3	ug/L			04/07/23 16:30	4
Chloroform	ND		4.0	1.4	ug/L			04/07/23 16:30	4
Chloromethane	ND		4.0	1.4	ug/L			04/07/23 16:30	4
cis-1,2-Dichloroethene	**56**		4.0	3.2	ug/L			04/07/23 16:30	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			04/07/23 16:30	4
Cyclohexane	ND		4.0	0.72	ug/L			04/07/23 16:30	4
Dibromochloromethane	ND		4.0	1.3	ug/L			04/07/23 16:30	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			04/07/23 16:30	4
Ethylbenzene	ND		4.0	3.0	ug/L			04/07/23 16:30	4
Isopropylbenzene	ND		4.0	3.2	ug/L			04/07/23 16:30	4
m,p-Xylene	ND		8.0	2.6	ug/L			04/07/23 16:30	4
Methyl acetate	ND		10	5.2	ug/L			04/07/23 16:30	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			04/07/23 16:30	4
Methylcyclohexane	ND		4.0	0.64	ug/L			04/07/23 16:30	4
Methylene Chloride	ND		4.0	1.8	ug/L			04/07/23 16:30	4
Naphthalene	ND		4.0	1.7	ug/L			04/07/23 16:30	4
n-Butylbenzene	ND		4.0	2.6	ug/L			04/07/23 16:30	4
N-Propylbenzene	ND		4.0	2.8	ug/L			04/07/23 16:30	4
o-Xylene	ND		4.0	3.0	ug/L			04/07/23 16:30	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			04/07/23 16:30	4
Styrene	ND		4.0	2.9	ug/L			04/07/23 16:30	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			04/07/23 16:30	4
Tetrachloroethene	**110**		4.0	1.4	ug/L			04/07/23 16:30	4
Toluene	ND		4.0	2.0	ug/L			04/07/23 16:30	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			04/07/23 16:30	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			04/07/23 16:30	4
Trichloroethene	**12**		4.0	1.8	ug/L			04/07/23 16:30	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			04/07/23 16:30	4
Vinyl chloride	ND		4.0	3.6	ug/L			04/07/23 16:30	4
Xylenes, Total	ND		8.0	2.6	ug/L			04/07/23 16:30	4

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207520-3

Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/05/23 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		04/07/23 16:30	4
4-Bromofluorobenzene (Surr)	96		73 - 120		04/07/23 16:30	4
Toluene-d8 (Surr)	96		80 - 120		04/07/23 16:30	4

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207520-4

Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			04/07/23 16:53	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			04/07/23 16:53	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			04/07/23 16:53	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			04/07/23 16:53	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			04/07/23 16:53	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			04/07/23 16:53	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			04/07/23 16:53	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			04/07/23 16:53	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			04/07/23 16:53	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			04/07/23 16:53	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			04/07/23 16:53	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			04/07/23 16:53	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			04/07/23 16:53	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			04/07/23 16:53	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			04/07/23 16:53	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			04/07/23 16:53	4
2-Butanone (MEK)	ND		40	5.3	ug/L			04/07/23 16:53	4
2-Hexanone	ND		20	5.0	ug/L			04/07/23 16:53	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			04/07/23 16:53	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			04/07/23 16:53	4
Acetone	ND		40	12	ug/L			04/07/23 16:53	4
Benzene	ND		4.0	1.6	ug/L			04/07/23 16:53	4
Bromodichloromethane	ND		4.0	1.6	ug/L			04/07/23 16:53	4
Bromoform	ND		4.0	1.0	ug/L			04/07/23 16:53	4
Bromomethane	ND		4.0	2.8	ug/L			04/07/23 16:53	4
Carbon disulfide	ND		4.0	0.76	ug/L			04/07/23 16:53	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			04/07/23 16:53	4
Chlorobenzene	ND		4.0	3.0	ug/L			04/07/23 16:53	4
Chloroethane	ND		4.0	1.3	ug/L			04/07/23 16:53	4
Chloroform	ND		4.0	1.4	ug/L			04/07/23 16:53	4
Chloromethane	ND		4.0	1.4	ug/L			04/07/23 16:53	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			04/07/23 16:53	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			04/07/23 16:53	4
Cyclohexane	ND		4.0	0.72	ug/L			04/07/23 16:53	4
Dibromochloromethane	ND		4.0	1.3	ug/L			04/07/23 16:53	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			04/07/23 16:53	4
Ethylbenzene	ND		4.0	3.0	ug/L			04/07/23 16:53	4
Isopropylbenzene	ND		4.0	3.2	ug/L			04/07/23 16:53	4
m,p-Xylene	ND		8.0	2.6	ug/L			04/07/23 16:53	4
Methyl acetate	ND		10	5.2	ug/L			04/07/23 16:53	4

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207520-4

Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			04/07/23 16:53	4
Methylcyclohexane	ND		4.0	0.64	ug/L			04/07/23 16:53	4
Methylene Chloride	ND		4.0	1.8	ug/L			04/07/23 16:53	4
Naphthalene	ND		4.0	1.7	ug/L			04/07/23 16:53	4
n-Butylbenzene	ND		4.0	2.6	ug/L			04/07/23 16:53	4
N-Propylbenzene	ND		4.0	2.8	ug/L			04/07/23 16:53	4
o-Xylene	ND		4.0	3.0	ug/L			04/07/23 16:53	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			04/07/23 16:53	4
Styrene	ND		4.0	2.9	ug/L			04/07/23 16:53	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			04/07/23 16:53	4
Tetrachloroethene	ND		4.0	1.4	ug/L			04/07/23 16:53	4
Toluene	ND		4.0	2.0	ug/L			04/07/23 16:53	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			04/07/23 16:53	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			04/07/23 16:53	4
Trichloroethene	ND		4.0	1.8	ug/L			04/07/23 16:53	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			04/07/23 16:53	4
Vinyl chloride	ND		4.0	3.6	ug/L			04/07/23 16:53	4
Xylenes, Total	ND		8.0	2.6	ug/L			04/07/23 16:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*04/07/23 16:53*	*4*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*04/07/23 16:53*	*4*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/23 16:53*	*4*

Client Sample ID: 828109-MW-905-8.5-18.5-040323
Lab Sample ID: 480-207520-5

Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			04/07/23 17:15	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			04/07/23 17:15	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			04/07/23 17:15	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			04/07/23 17:15	10
1,1-Dichloroethane	ND		10	3.8	ug/L			04/07/23 17:15	10
1,1-Dichloroethene	ND		10	2.9	ug/L			04/07/23 17:15	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			04/07/23 17:15	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			04/07/23 17:15	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			04/07/23 17:15	10
1,2-Dibromoethane	ND		10	7.3	ug/L			04/07/23 17:15	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			04/07/23 17:15	10
1,2-Dichloroethane	ND		10	2.1	ug/L			04/07/23 17:15	10
1,2-Dichloropropane	ND		10	7.2	ug/L			04/07/23 17:15	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			04/07/23 17:15	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			04/07/23 17:15	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			04/07/23 17:15	10
2-Butanone (MEK)	ND		100	13	ug/L			04/07/23 17:15	10
2-Hexanone	ND		50	12	ug/L			04/07/23 17:15	10
4-Isopropyltoluene	ND		10	3.1	ug/L			04/07/23 17:15	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			04/07/23 17:15	10

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-905-8.5-18.5-040323
Lab Sample ID: 480-207520-5
Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100	30	ug/L			04/07/23 17:15	10
Benzene	ND		10	4.1	ug/L			04/07/23 17:15	10
Bromodichloromethane	ND		10	3.9	ug/L			04/07/23 17:15	10
Bromoform	ND		10	2.6	ug/L			04/07/23 17:15	10
Bromomethane	ND		10	6.9	ug/L			04/07/23 17:15	10
Carbon disulfide	ND		10	1.9	ug/L			04/07/23 17:15	10
Carbon tetrachloride	ND		10	2.7	ug/L			04/07/23 17:15	10
Chlorobenzene	ND		10	7.5	ug/L			04/07/23 17:15	10
Chloroethane	ND		10	3.2	ug/L			04/07/23 17:15	10
Chloroform	ND		10	3.4	ug/L			04/07/23 17:15	10
Chloromethane	ND		10	3.5	ug/L			04/07/23 17:15	10
cis-1,2-Dichloroethene	**40**		10	8.1	ug/L			04/07/23 17:15	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			04/07/23 17:15	10
Cyclohexane	ND		10	1.8	ug/L			04/07/23 17:15	10
Dibromochloromethane	ND		10	3.2	ug/L			04/07/23 17:15	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			04/07/23 17:15	10
Ethylbenzene	ND		10	7.4	ug/L			04/07/23 17:15	10
Isopropylbenzene	ND		10	7.9	ug/L			04/07/23 17:15	10
m,p-Xylene	ND		20	6.6	ug/L			04/07/23 17:15	10
Methyl acetate	ND		25	13	ug/L			04/07/23 17:15	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			04/07/23 17:15	10
Methylcyclohexane	ND		10	1.6	ug/L			04/07/23 17:15	10
Methylene Chloride	ND		10	4.4	ug/L			04/07/23 17:15	10
Naphthalene	ND		10	4.3	ug/L			04/07/23 17:15	10
n-Butylbenzene	ND		10	6.4	ug/L			04/07/23 17:15	10
N-Propylbenzene	ND		10	6.9	ug/L			04/07/23 17:15	10
o-Xylene	ND		10	7.6	ug/L			04/07/23 17:15	10
sec-Butylbenzene	ND		10	7.5	ug/L			04/07/23 17:15	10
Styrene	ND		10	7.3	ug/L			04/07/23 17:15	10
tert-Butylbenzene	ND		10	8.1	ug/L			04/07/23 17:15	10
Tetrachloroethene	**370**		10	3.6	ug/L			04/07/23 17:15	10
Toluene	ND		10	5.1	ug/L			04/07/23 17:15	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			04/07/23 17:15	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			04/07/23 17:15	10
Trichloroethene	**13**		10	4.6	ug/L			04/07/23 17:15	10
Trichlorofluoromethane	ND		10	8.8	ug/L			04/07/23 17:15	10
Vinyl chloride	ND		10	9.0	ug/L			04/07/23 17:15	10
Xylenes, Total	ND		20	6.6	ug/L			04/07/23 17:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/23 17:15*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/07/23 17:15*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/23 17:15*	*10*

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-3-8-18-040423
Lab Sample ID: 480-207520-6
Date Collected: 04/04/23 13:50
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/07/23 17:38	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/07/23 17:38	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/07/23 17:38	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/07/23 17:38	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			04/07/23 17:38	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/07/23 17:38	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			04/07/23 17:38	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			04/07/23 17:38	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			04/07/23 17:38	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			04/07/23 17:38	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			04/07/23 17:38	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			04/07/23 17:38	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			04/07/23 17:38	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			04/07/23 17:38	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			04/07/23 17:38	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			04/07/23 17:38	2
2-Butanone (MEK)	ND		20	2.6	ug/L			04/07/23 17:38	2
2-Hexanone	ND		10	2.5	ug/L			04/07/23 17:38	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			04/07/23 17:38	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			04/07/23 17:38	2
Acetone	ND		20	6.0	ug/L			04/07/23 17:38	2
Benzene	ND		2.0	0.82	ug/L			04/07/23 17:38	2
Bromodichloromethane	ND		2.0	0.78	ug/L			04/07/23 17:38	2
Bromoform	ND		2.0	0.52	ug/L			04/07/23 17:38	2
Bromomethane	ND		2.0	1.4	ug/L			04/07/23 17:38	2
Carbon disulfide	ND		2.0	0.38	ug/L			04/07/23 17:38	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			04/07/23 17:38	2
Chlorobenzene	ND		2.0	1.5	ug/L			04/07/23 17:38	2
Chloroethane	ND		2.0	0.64	ug/L			04/07/23 17:38	2
Chloroform	ND		2.0	0.68	ug/L			04/07/23 17:38	2
Chloromethane	ND		2.0	0.70	ug/L			04/07/23 17:38	2
cis-1,2-Dichloroethene	**68**		2.0	1.6	ug/L			04/07/23 17:38	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			04/07/23 17:38	2
Cyclohexane	**0.71**	**J**	2.0	0.36	ug/L			04/07/23 17:38	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/07/23 17:38	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			04/07/23 17:38	2
Ethylbenzene	ND		2.0	1.5	ug/L			04/07/23 17:38	2
Isopropylbenzene	ND		2.0	1.6	ug/L			04/07/23 17:38	2
m,p-Xylene	ND		4.0	1.3	ug/L			04/07/23 17:38	2
Methyl acetate	ND		5.0	2.6	ug/L			04/07/23 17:38	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			04/07/23 17:38	2
Methylcyclohexane	ND		2.0	0.32	ug/L			04/07/23 17:38	2
Methylene Chloride	ND		2.0	0.88	ug/L			04/07/23 17:38	2
Naphthalene	**1.3**	**J**	2.0	0.86	ug/L			04/07/23 17:38	2
n-Butylbenzene	ND		2.0	1.3	ug/L			04/07/23 17:38	2
N-Propylbenzene	ND		2.0	1.4	ug/L			04/07/23 17:38	2
o-Xylene	ND		2.0	1.5	ug/L			04/07/23 17:38	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			04/07/23 17:38	2
Styrene	ND		2.0	1.5	ug/L			04/07/23 17:38	2

Client Sample ID: 828109-MW-3-8-18-040423
Lab Sample ID: 480-207520-6
Date Collected: 04/04/23 13:50
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		2.0	1.6	ug/L			04/07/23 17:38	2
Tetrachloroethene	ND		2.0	0.72	ug/L			04/07/23 17:38	2
Toluene	ND		2.0	1.0	ug/L			04/07/23 17:38	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			04/07/23 17:38	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			04/07/23 17:38	2
Trichloroethene	ND		2.0	0.92	ug/L			04/07/23 17:38	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			04/07/23 17:38	2
Vinyl chloride	**39**		2.0	1.8	ug/L			04/07/23 17:38	2
Xylenes, Total	ND		4.0	1.3	ug/L			04/07/23 17:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*04/07/23 17:38*	*2*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*04/07/23 17:38*	*2*
Toluene-d8 (Surr)	*94*		*80 - 120*		*04/07/23 17:38*	*2*

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-207520-7
Date Collected: 04/03/23 00:00
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/23 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/23 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/23 18:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/23 18:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/23 18:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/23 18:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/23 18:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/07/23 18:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/23 18:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/23 18:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/23 18:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/23 18:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/23 18:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/07/23 18:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/07/23 18:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/23 18:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/07/23 18:00	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/23 18:00	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			04/07/23 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/07/23 18:00	1
Acetone	ND		10	3.0	ug/L			04/07/23 18:00	1
Benzene	ND		1.0	0.41	ug/L			04/07/23 18:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/23 18:00	1
Bromoform	ND		1.0	0.26	ug/L			04/07/23 18:00	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/23 18:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/23 18:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/23 18:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/23 18:00	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/23 18:00	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-207520-7

Date Collected: 04/03/23 00:00
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			04/07/23 18:00	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/23 18:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/23 18:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/23 18:00	1
Cyclohexane	ND		1.0	0.18	ug/L			04/07/23 18:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/23 18:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/07/23 18:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/23 18:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/07/23 18:00	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/07/23 18:00	1
Methyl acetate	ND		2.5	1.3	ug/L			04/07/23 18:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/07/23 18:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/07/23 18:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/23 18:00	1
Naphthalene	ND		1.0	0.43	ug/L			04/07/23 18:00	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/07/23 18:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/07/23 18:00	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/23 18:00	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/07/23 18:00	1
Styrene	ND		1.0	0.73	ug/L			04/07/23 18:00	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/07/23 18:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/23 18:00	1
Toluene	ND		1.0	0.51	ug/L			04/07/23 18:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/23 18:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/23 18:00	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/23 18:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/23 18:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/23 18:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/23 18:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*04/07/23 18:00*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/23 18:00*	*1*

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207520-8

Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			04/07/23 18:23	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			04/07/23 18:23	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			04/07/23 18:23	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			04/07/23 18:23	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			04/07/23 18:23	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			04/07/23 18:23	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			04/07/23 18:23	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			04/07/23 18:23	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			04/07/23 18:23	4

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207520-8
Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		4.0	2.9	ug/L			04/07/23 18:23	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			04/07/23 18:23	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			04/07/23 18:23	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			04/07/23 18:23	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			04/07/23 18:23	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			04/07/23 18:23	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			04/07/23 18:23	4
2-Butanone (MEK)	ND		40	5.3	ug/L			04/07/23 18:23	4
2-Hexanone	ND		20	5.0	ug/L			04/07/23 18:23	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			04/07/23 18:23	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			04/07/23 18:23	4
Acetone	**17**	**J**	40	12	ug/L			04/07/23 18:23	4
Benzene	ND		4.0	1.6	ug/L			04/07/23 18:23	4
Bromodichloromethane	ND		4.0	1.6	ug/L			04/07/23 18:23	4
Bromoform	ND		4.0	1.0	ug/L			04/07/23 18:23	4
Bromomethane	ND		4.0	2.8	ug/L			04/07/23 18:23	4
Carbon disulfide	ND		4.0	0.76	ug/L			04/07/23 18:23	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			04/07/23 18:23	4
Chlorobenzene	ND		4.0	3.0	ug/L			04/07/23 18:23	4
Chloroethane	ND		4.0	1.3	ug/L			04/07/23 18:23	4
Chloroform	ND		4.0	1.4	ug/L			04/07/23 18:23	4
Chloromethane	ND		4.0	1.4	ug/L			04/07/23 18:23	4
cis-1,2-Dichloroethene	**8.0**		4.0	3.2	ug/L			04/07/23 18:23	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			04/07/23 18:23	4
Cyclohexane	ND		4.0	0.72	ug/L			04/07/23 18:23	4
Dibromochloromethane	ND		4.0	1.3	ug/L			04/07/23 18:23	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			04/07/23 18:23	4
Ethylbenzene	ND		4.0	3.0	ug/L			04/07/23 18:23	4
Isopropylbenzene	ND		4.0	3.2	ug/L			04/07/23 18:23	4
m,p-Xylene	ND		8.0	2.6	ug/L			04/07/23 18:23	4
Methyl acetate	ND		10	5.2	ug/L			04/07/23 18:23	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			04/07/23 18:23	4
Methylcyclohexane	ND		4.0	0.64	ug/L			04/07/23 18:23	4
Methylene Chloride	ND		4.0	1.8	ug/L			04/07/23 18:23	4
Naphthalene	ND		4.0	1.7	ug/L			04/07/23 18:23	4
n-Butylbenzene	ND		4.0	2.6	ug/L			04/07/23 18:23	4
N-Propylbenzene	ND		4.0	2.8	ug/L			04/07/23 18:23	4
o-Xylene	ND		4.0	3.0	ug/L			04/07/23 18:23	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			04/07/23 18:23	4
Styrene	ND		4.0	2.9	ug/L			04/07/23 18:23	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			04/07/23 18:23	4
Tetrachloroethene	**24**		4.0	1.4	ug/L			04/07/23 18:23	4
Toluene	ND		4.0	2.0	ug/L			04/07/23 18:23	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			04/07/23 18:23	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			04/07/23 18:23	4
Trichloroethene	ND		4.0	1.8	ug/L			04/07/23 18:23	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			04/07/23 18:23	4
Vinyl chloride	ND		4.0	3.6	ug/L			04/07/23 18:23	4
Xylenes, Total	ND		8.0	2.6	ug/L			04/07/23 18:23	4

Client Sample ID: 828109-IDW-WW-040423

Lab Sample ID: 480-207520-8

Date Collected: 04/04/23 10:15

Matrix: Water

Date Received: 04/05/23 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		04/07/23 18:23	4
4-Bromofluorobenzene (Surr)	94		73 - 120		04/07/23 18:23	4
Toluene-d8 (Surr)	95		80 - 120		04/07/23 18:23	4

Client Sample ID: 828109-IDW-SOIL-040423

Lab Sample ID: 480-207520-9

Date Collected: 04/04/23 08:00

Matrix: Solid

Date Received: 04/05/23 09:45

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2,4-Trimethylbenzene	ND	vs	6.0	1.2	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,3,5-Trimethylbenzene	ND	vs	6.0	0.39	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
4-Isopropyltoluene	ND	vs	6.0	0.48	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Acetone	ND	vs	30	5.1	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Chloroform	**0.52**	**J B vs**	6.0	0.37	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-IDW-SOIL-040423
Lab Sample ID: 480-207520-9
Date Collected: 04/04/23 08:00
Matrix: Solid
Date Received: 04/05/23 09:45
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
m,p-Xylene	ND	vs	12	1.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Naphthalene	ND	vs	6.0	0.81	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
n-Butylbenzene	ND	vs	6.0	0.52	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
N-Propylbenzene	ND	vs	6.0	0.48	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
o-Xylene	ND	vs	6.0	0.79	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
sec-Butylbenzene	ND	vs	6.0	0.52	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Toluene	ND	vs	6.0	0.45	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1
tert-Butylbenzene	ND	vs	6.0	0.63	ug/Kg	☼	04/05/23 16:00	04/05/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*04/05/23 16:00*	*04/05/23 19:45*	*1*
4-Bromofluorobenzene (Surr)	*108*		*72 - 126*	*04/05/23 16:00*	*04/05/23 19:45*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*04/05/23 16:00*	*04/05/23 19:45*	*1*

Surrogate Summary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)
480-207520-9	828109-IDW-SOIL-040423	98	108	91
LCS 480-664087/1-A	Lab Control Sample	96	108	92
MB 480-664087/2-A	Method Blank	96	107	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-207520-1	828109-MW-5-8.5-18.5-040323	101	92	103
480-207520-2	828109-MW-9-9-19-040323	101	92	103
480-207520-2 MS	828109-MW-9-9-19-040323	99	101	102
480-207520-2 MSD	828109-MW-9-9-19-040323	102	101	100
480-207520-3	828109-MW-10-3-8-040323	96	96	96
480-207520-4	828109-MW-11-3-13-040323	96	93	95
480-207520-5	828109-MW-905-8.5-18.5-040323	101	100	97
480-207520-6	828109-MW-3-8-18-040423	94	92	94
480-207520-7	TRIP BLANK	101	96	95
480-207520-8	828109-IDW-WW-040423	98	94	95
LCS 480-664297/5	Lab Control Sample	95	98	102
LCS 480-664301/5	Lab Control Sample	101	100	99
LCSD 480-664301/33	Lab Control Sample Dup	98	102	100
MB 480-664297/7	Method Blank	100	94	98
MB 480-664301/8	Method Blank	101	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 480-664087/2-A
Matrix: Solid
Analysis Batch: 664088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
2-Hexanone	ND		25	2.5	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Acetone	ND		25	4.2	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Benzene	ND		5.0	0.25	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Bromoform	ND		5.0	2.5	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Chloroform	0.456	J	5.0	0.31	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Methyl acetate	ND		25	3.0	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
m,p-Xylene	ND		10	0.84	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Naphthalene	ND		5.0	0.67	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
o-Xylene	ND		5.0	0.65	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/05/23 16:00	04/05/23 19:21	1

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

Lab Sample ID: MB 480-664087/2-A
Matrix: Solid
Analysis Batch: 664088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Styrene	ND		5.0	0.25	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		04/05/23 16:00	04/05/23 19:21	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/05/23 16:00	04/05/23 19:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*	*04/05/23 16:00*	*04/05/23 19:21*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 126*	*04/05/23 16:00*	*04/05/23 19:21*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*04/05/23 16:00*	*04/05/23 19:21*	*1*

Lab Sample ID: LCS 480-664087/1-A
Matrix: Solid
Analysis Batch: 664088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	55.0		ug/Kg		110	77 - 121
1,1,2,2-Tetrachloroethane	50.0	43.2		ug/Kg		86	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.7		ug/Kg		95	60 - 140
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	78 - 122
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	73 - 126
1,1-Dichloroethene	50.0	52.7		ug/Kg		105	59 - 125
1,2,4-Trichlorobenzene	50.0	44.7		ug/Kg		89	64 - 120
1,2,4-Trimethylbenzene	50.0	42.9		ug/Kg		86	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/Kg		95	63 - 124
1,2-Dichlorobenzene	50.0	42.9		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	49.5		ug/Kg		99	77 - 122
1,2-Dichloropropane	50.0	52.0		ug/Kg		104	75 - 124
1,3,5-Trimethylbenzene	50.0	44.0		ug/Kg		88	74 - 120
1,3-Dichlorobenzene	50.0	43.2		ug/Kg		86	74 - 120
1,4-Dichlorobenzene	50.0	42.7		ug/Kg		85	73 - 120
2-Butanone (MEK)	250	266		ug/Kg		106	70 - 134
2-Hexanone	250	237		ug/Kg		95	59 - 130
4-Isopropyltoluene	50.0	44.9		ug/Kg		90	74 - 120
4-Methyl-2-pentanone (MIBK)	250	234		ug/Kg		94	65 - 133
Acetone	250	244		ug/Kg		97	61 - 137
Benzene	50.0	53.1		ug/Kg		106	79 - 127
Bromoform	50.0	54.2		ug/Kg		108	68 - 126
Bromomethane	50.0	57.1		ug/Kg		114	37 - 149
Carbon disulfide	50.0	53.4		ug/Kg		107	64 - 131
Carbon tetrachloride	50.0	57.8		ug/Kg		116	75 - 135
Chlorobenzene	50.0	45.9		ug/Kg		92	76 - 124
Chloroethane	50.0	56.4		ug/Kg		113	69 - 135

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

Lab Sample ID: LCS 480-664087/1-A
Matrix: Solid
Analysis Batch: 664088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	50.7		ug/Kg		101	80 - 120
Chloromethane	50.0	54.0		ug/Kg		108	63 - 127
cis-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	81 - 120
Bromodichloromethane	50.0	55.2		ug/Kg		110	80 - 122
Cyclohexane	50.0	52.5		ug/Kg		105	65 - 120
Dibromochloromethane	50.0	51.0		ug/Kg		102	76 - 125
1,2-Dibromoethane	50.0	47.2		ug/Kg		94	78 - 120
Dichlorodifluoromethane	50.0	61.9		ug/Kg		124	57 - 142
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 120
Isopropylbenzene	50.0	44.3		ug/Kg		89	72 - 120
Methyl acetate	100	95.9		ug/Kg		96	55 - 136
Methyl tert-butyl ether	50.0	53.7		ug/Kg		107	63 - 125
m,p-Xylene	50.0	47.5		ug/Kg		95	70 - 130
Methylcyclohexane	50.0	53.9		ug/Kg		108	60 - 140
Methylene Chloride	50.0	54.2		ug/Kg		108	61 - 127
Naphthalene	50.0	44.4		ug/Kg		89	38 - 137
n-Butylbenzene	50.0	44.6		ug/Kg		89	70 - 120
N-Propylbenzene	50.0	43.6		ug/Kg		87	70 - 130
o-Xylene	50.0	46.6		ug/Kg		93	70 - 130
sec-Butylbenzene	50.0	44.5		ug/Kg		89	74 - 120
Tetrachloroethene	50.0	49.0		ug/Kg		98	74 - 122
Toluene	50.0	46.4		ug/Kg		93	74 - 128
trans-1,2-Dichloroethene	50.0	53.9		ug/Kg		108	78 - 126
trans-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	73 - 123
Trichloroethene	50.0	53.9		ug/Kg		108	77 - 129
cis-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	80 - 120
Trichlorofluoromethane	50.0	56.4		ug/Kg		113	65 - 146
Styrene	50.0	47.7		ug/Kg		95	80 - 120
Vinyl chloride	50.0	56.3		ug/Kg		113	61 - 133
tert-Butylbenzene	50.0	44.8		ug/Kg		90	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*108*		*72 - 126*
Toluene-d8 (Surr)	*92*		*71 - 125*

Lab Sample ID: MB 480-664297/7
Matrix: Water
Analysis Batch: 664297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/23 11:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/23 11:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/23 11:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/23 11:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/23 11:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/23 11:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/23 11:44	1

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

Lab Sample ID: MB 480-664297/7
Matrix: Water
Analysis Batch: 664297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/07/23 11:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/23 11:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/23 11:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/23 11:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/23 11:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/07/23 11:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/07/23 11:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/23 11:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/07/23 11:44	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/23 11:44	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			04/07/23 11:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/07/23 11:44	1
Acetone	ND		10	3.0	ug/L			04/07/23 11:44	1
Benzene	ND		1.0	0.41	ug/L			04/07/23 11:44	1
Bromoform	ND		1.0	0.26	ug/L			04/07/23 11:44	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/23 11:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/23 11:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/23 11:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/23 11:44	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/23 11:44	1
Chloroform	ND		1.0	0.34	ug/L			04/07/23 11:44	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/23 11:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/23 11:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/23 11:44	1
Cyclohexane	ND		1.0	0.18	ug/L			04/07/23 11:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/23 11:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/23 11:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/07/23 11:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/23 11:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/07/23 11:44	1
Methyl acetate	ND		2.5	1.3	ug/L			04/07/23 11:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/07/23 11:44	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/07/23 11:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/07/23 11:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/23 11:44	1
Naphthalene	ND		1.0	0.43	ug/L			04/07/23 11:44	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/07/23 11:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/07/23 11:44	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/23 11:44	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/07/23 11:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/23 11:44	1
Toluene	ND		1.0	0.51	ug/L			04/07/23 11:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/23 11:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/23 11:44	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/23 11:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/23 11:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/23 11:44	1
Styrene	ND		1.0	0.73	ug/L			04/07/23 11:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/23 11:44	1

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

Lab Sample ID: MB 480-664297/7
Matrix: Water
Analysis Batch: 664297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/07/23 11:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*04/07/23 11:44*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*04/07/23 11:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/07/23 11:44*	*1*

Lab Sample ID: LCS 480-664297/5
Matrix: Water
Analysis Batch: 664297

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5		ug/L		106	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	25.3		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	21.3		ug/L		85	79 - 122
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	56 - 134
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	24.1		ug/L		96	76 - 120
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	77 - 121
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 120
2-Butanone (MEK)	125	131		ug/L		105	57 - 140
2-Hexanone	125	127		ug/L		102	65 - 127
4-Isopropyltoluene	25.0	25.2		ug/L		101	73 - 120
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		86	71 - 125
Acetone	125	146		ug/L		117	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromoform	25.0	26.2		ug/L		105	61 - 132
Bromomethane	25.0	24.1		ug/L		96	55 - 144
Carbon disulfide	25.0	25.0		ug/L		100	59 - 134
Carbon tetrachloride	25.0	26.6		ug/L		106	72 - 134
Chlorobenzene	25.0	26.3		ug/L		105	80 - 120
Chloroethane	25.0	23.4		ug/L		94	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	24.8		ug/L		99	68 - 124
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	74 - 124
Bromodichloromethane	25.0	24.2		ug/L		97	80 - 122
Cyclohexane	25.0	22.9		ug/L		92	59 - 135
Dibromochloromethane	25.0	27.5		ug/L		110	75 - 125
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
Dichlorodifluoromethane	25.0	22.4		ug/L		89	59 - 135

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

Lab Sample ID: LCS 480-664297/5
Matrix: Water
Analysis Batch: 664297

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Isopropylbenzene	25.0	26.1		ug/L		104	77 - 122
Methyl acetate	50.0	43.8		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	22.2		ug/L		89	77 - 120
m,p-Xylene	25.0	25.8		ug/L		103	76 - 122
Methylcyclohexane	25.0	23.9		ug/L		96	68 - 134
Methylene Chloride	25.0	22.9		ug/L		91	75 - 124
Naphthalene	25.0	19.5		ug/L		78	66 - 125
n-Butylbenzene	25.0	24.7		ug/L		99	71 - 128
N-Propylbenzene	25.0	26.4		ug/L		105	75 - 127
o-Xylene	25.0	25.2		ug/L		101	76 - 122
sec-Butylbenzene	25.0	25.5		ug/L		102	74 - 127
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	26.1		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	24.4		ug/L		98	80 - 120
Trichloroethene	25.0	25.5		ug/L		102	74 - 123
cis-1,3-Dichloropropene	25.0	23.9		ug/L		96	74 - 124
Trichlorofluoromethane	25.0	28.4		ug/L		114	62 - 150
Styrene	25.0	25.1		ug/L		100	80 - 120
Vinyl chloride	25.0	24.3		ug/L		97	65 - 133
tert-Butylbenzene	25.0	27.2		ug/L		109	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 480-664301/8
Matrix: Water
Analysis Batch: 664301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/07/23 12:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/07/23 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/07/23 12:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/07/23 12:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/07/23 12:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/07/23 12:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/07/23 12:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/07/23 12:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/07/23 12:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/07/23 12:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/07/23 12:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/07/23 12:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/07/23 12:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/07/23 12:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/07/23 12:45	1

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

Lab Sample ID: MB 480-664301/8
Matrix: Water
Analysis Batch: 664301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			04/07/23 12:45	1
2-Hexanone	ND		5.0	1.2	ug/L			04/07/23 12:45	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			04/07/23 12:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/07/23 12:45	1
Acetone	ND		10	3.0	ug/L			04/07/23 12:45	1
Benzene	ND		1.0	0.41	ug/L			04/07/23 12:45	1
Bromoform	ND		1.0	0.26	ug/L			04/07/23 12:45	1
Bromomethane	ND		1.0	0.69	ug/L			04/07/23 12:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/07/23 12:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/07/23 12:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/07/23 12:45	1
Chloroethane	ND		1.0	0.32	ug/L			04/07/23 12:45	1
Chloroform	ND		1.0	0.34	ug/L			04/07/23 12:45	1
Chloromethane	ND		1.0	0.35	ug/L			04/07/23 12:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/07/23 12:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/07/23 12:45	1
Cyclohexane	ND		1.0	0.18	ug/L			04/07/23 12:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/07/23 12:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/07/23 12:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/07/23 12:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/07/23 12:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/07/23 12:45	1
Methyl acetate	ND		2.5	1.3	ug/L			04/07/23 12:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/07/23 12:45	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/07/23 12:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/07/23 12:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/07/23 12:45	1
Naphthalene	ND		1.0	0.43	ug/L			04/07/23 12:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/07/23 12:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/07/23 12:45	1
o-Xylene	ND		1.0	0.76	ug/L			04/07/23 12:45	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/07/23 12:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/07/23 12:45	1
Toluene	ND		1.0	0.51	ug/L			04/07/23 12:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/07/23 12:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/07/23 12:45	1
Trichloroethene	ND		1.0	0.46	ug/L			04/07/23 12:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/07/23 12:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/07/23 12:45	1
Styrene	ND		1.0	0.73	ug/L			04/07/23 12:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/07/23 12:45	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			04/07/23 12:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/07/23 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/07/23 12:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/07/23 12:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/07/23 12:45*	*1*

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

Lab Sample ID: LCS 480-664301/5
Matrix: Water
Analysis Batch: 664301

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.8		ug/L		95	61 - 148
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	26.3		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	23.5		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	79 - 122
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	27.2		ug/L		109	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	77 - 121
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 120
2-Butanone (MEK)	125	246	*+	ug/L		197	57 - 140
2-Hexanone	125	130		ug/L		104	65 - 127
4-Isopropyltoluene	25.0	25.9		ug/L		103	73 - 120
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromoform	25.0	24.0		ug/L		96	61 - 132
Bromomethane	25.0	25.9		ug/L		104	55 - 144
Carbon disulfide	25.0	21.9		ug/L		87	59 - 134
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	80 - 120
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	23.3		ug/L		93	73 - 127
Chloromethane	25.0	19.4		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
Bromodichloromethane	25.0	26.6		ug/L		107	80 - 122
Cyclohexane	25.0	24.8		ug/L		99	59 - 135
Dibromochloromethane	25.0	27.9		ug/L		112	75 - 125
1,2-Dibromoethane	25.0	25.8		ug/L		103	77 - 120
Dichlorodifluoromethane	25.0	17.6		ug/L		70	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	25.0	25.7		ug/L		103	77 - 122
Methyl acetate	50.0	50.3		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		99	77 - 120
m,p-Xylene	25.0	25.3		ug/L		101	76 - 122
Methylcyclohexane	25.0	25.4		ug/L		101	68 - 134
Methylene Chloride	25.0	21.3		ug/L		85	75 - 124
Naphthalene	25.0	25.1		ug/L		101	66 - 125
n-Butylbenzene	25.0	25.7		ug/L		103	71 - 128
N-Propylbenzene	25.0	25.8		ug/L		103	75 - 127
o-Xylene	25.0	24.6		ug/L		98	76 - 122
sec-Butylbenzene	25.0	25.7		ug/L		103	74 - 127
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122

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

Lab Sample ID: LCS 480-664301/5
Matrix: Water
Analysis Batch: 664301

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			25.0	24.8		ug/L		99	80 - 122		
trans-1,2-Dichloroethene			25.0	24.7		ug/L		99	73 - 127		
trans-1,3-Dichloropropene			25.0	27.0		ug/L		108	80 - 120		
Trichloroethene			25.0	25.3		ug/L		101	74 - 123		
cis-1,3-Dichloropropene			25.0	27.1		ug/L		108	74 - 124		
Trichlorofluoromethane			25.0	25.5		ug/L		102	62 - 150		
Styrene			25.0	25.2		ug/L		101	80 - 120		
Vinyl chloride			25.0	21.6		ug/L		86	65 - 133		
tert-Butylbenzene			25.0	26.2		ug/L		105	75 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 480-664301/33
Matrix: Water
Analysis Batch: 664301

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			25.0	24.7		ug/L		99	73 - 126	5	15
1,1,2,2-Tetrachloroethane			25.0	25.5		ug/L		102	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	23.1		ug/L		92	61 - 148	3	20
1,1,2-Trichloroethane			25.0	25.4		ug/L		102	76 - 122	2	15
1,1-Dichloroethane			25.0	24.9		ug/L		100	77 - 120	5	20
1,1-Dichloroethene			25.0	22.5		ug/L		90	66 - 127	4	16
1,2,4-Trichlorobenzene			25.0	25.3		ug/L		101	79 - 122	1	20
1,2,4-Trimethylbenzene			25.0	25.4		ug/L		102	76 - 121	2	20
1,2-Dibromo-3-Chloropropane			25.0	27.4		ug/L		110	56 - 134	1	15
1,2-Dichlorobenzene			25.0	25.4		ug/L		101	80 - 124	1	20
1,2-Dichloroethane			25.0	23.4		ug/L		94	75 - 120	2	20
1,2-Dichloropropane			25.0	24.4		ug/L		97	76 - 120	5	20
1,3,5-Trimethylbenzene			25.0	24.9		ug/L		100	77 - 121	3	20
1,3-Dichlorobenzene			25.0	25.5		ug/L		102	77 - 120	2	20
1,4-Dichlorobenzene			25.0	24.7		ug/L		99	80 - 120	1	20
2-Butanone (MEK)			125	240	*+	ug/L		192	57 - 140	3	20
2-Hexanone			125	132		ug/L		106	65 - 127	2	15
4-Isopropyltoluene			25.0	25.7		ug/L		103	73 - 120	1	20
4-Methyl-2-pentanone (MIBK)			125	127		ug/L		102	71 - 125	3	35
Acetone			125	111		ug/L		89	56 - 142	7	15
Benzene			25.0	23.5		ug/L		94	71 - 124	5	13
Bromoform			25.0	24.6		ug/L		98	61 - 132	2	15
Bromomethane			25.0	24.9		ug/L		99	55 - 144	4	15
Carbon disulfide			25.0	20.5		ug/L		82	59 - 134	7	15
Carbon tetrachloride			25.0	25.1		ug/L		100	72 - 134	5	15
Chlorobenzene			25.0	24.7		ug/L		99	80 - 120	1	25
Chloroethane			25.0	22.4		ug/L		90	69 - 136	3	15
Chloroform			25.0	22.4		ug/L		90	73 - 127	4	20

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

Lab Sample ID: LCSD 480-664301/33
Matrix: Water
Analysis Batch: 664301

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			25.0	19.3		ug/L		77	68 - 124	0	15
cis-1,2-Dichloroethene			25.0	23.9		ug/L		96	74 - 124	4	15
Bromodichloromethane			25.0	25.5		ug/L		102	80 - 122	4	15
Cyclohexane			25.0	23.5		ug/L		94	59 - 135	5	20
Dibromochloromethane			25.0	28.0		ug/L		112	75 - 125	0	15
1,2-Dibromoethane			25.0	25.8		ug/L		103	77 - 120	0	15
Dichlorodifluoromethane			25.0	17.7		ug/L		71	59 - 135	1	20
Ethylbenzene			25.0	24.9		ug/L		99	77 - 123	0	15
Isopropylbenzene			25.0	25.4		ug/L		101	77 - 122	1	20
Methyl acetate			50.0	50.4		ug/L		101	74 - 133	0	20
Methyl tert-butyl ether			25.0	24.3		ug/L		97	77 - 120	1	37
m,p-Xylene			25.0	24.6		ug/L		98	76 - 122	3	16
Methylcyclohexane			25.0	24.2		ug/L		97	68 - 134	4	20
Methylene Chloride			25.0	20.5		ug/L		82	75 - 124	4	15
Naphthalene			25.0	24.8		ug/L		99	66 - 125	1	20
n-Butylbenzene			25.0	25.1		ug/L		100	71 - 128	3	15
N-Propylbenzene			25.0	25.3		ug/L		101	75 - 127	2	15
o-Xylene			25.0	24.4		ug/L		98	76 - 122	1	16
sec-Butylbenzene			25.0	25.3		ug/L		101	74 - 127	2	15
Tetrachloroethene			25.0	25.8		ug/L		103	74 - 122	1	20
Toluene			25.0	24.2		ug/L		97	80 - 122	3	15
trans-1,2-Dichloroethene			25.0	23.7		ug/L		95	73 - 127	4	20
trans-1,3-Dichloropropene			25.0	27.2		ug/L		109	80 - 120	1	15
Trichloroethene			25.0	24.2		ug/L		97	74 - 123	4	16
cis-1,3-Dichloropropene			25.0	26.3		ug/L		105	74 - 124	3	15
Trichlorofluoromethane			25.0	24.7		ug/L		99	62 - 150	3	20
Styrene			25.0	25.3		ug/L		101	80 - 120	0	20
Vinyl chloride			25.0	22.2		ug/L		89	65 - 133	3	15
tert-Butylbenzene			25.0	25.6		ug/L		102	75 - 123	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 480-207520-2 MS
Matrix: Water
Analysis Batch: 664301

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane	ND	F1	25.0	31.0		ug/L		124	73 - 126		
1,1,2,2-Tetrachloroethane	ND	F1	25.0	29.7		ug/L		119	76 - 120		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.5		ug/L		114	61 - 148		
1,1,2-Trichloroethane	ND	F1	25.0	29.7		ug/L		119	76 - 122		
1,1-Dichloroethane	ND	F1	25.0	29.4		ug/L		118	77 - 120		
1,1-Dichloroethene	ND		25.0	29.7		ug/L		119	66 - 127		
1,2,4-Trichlorobenzene	ND		25.0	28.3		ug/L		113	79 - 122		
1,2,4-Trimethylbenzene	ND	F1	25.0	30.0		ug/L		120	76 - 121		

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

Lab Sample ID: 480-207520-2 MS
Client Sample ID: 828109-MW-9-9-19-040323
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 664301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	ND	F1	25.0	31.6		ug/L		127	56 - 134
1,2-Dibromoethane	ND	F1	25.0	31.1	F1	ug/L		124	77 - 120
1,2-Dichlorobenzene	ND		25.0	29.8		ug/L		119	80 - 124
1,2-Dichloroethane	ND		25.0	28.5		ug/L		114	75 - 120
1,2-Dichloropropane	ND	F1	25.0	29.8		ug/L		119	76 - 120
1,3,5-Trimethylbenzene	ND	F1	25.0	30.0		ug/L		120	77 - 121
1,3-Dichlorobenzene	ND	F1	25.0	29.9		ug/L		120	77 - 120
1,4-Dichlorobenzene	ND		25.0	28.9		ug/L		116	78 - 124
2-Butanone (MEK)	ND	*+	125	161		ug/L		129	57 - 140
2-Hexanone	ND	F1	125	165	F1	ug/L		132	65 - 127
4-Isopropyltoluene	ND	F1	25.0	30.5	F1	ug/L		122	73 - 120
4-Methyl-2-pentanone (MIBK)	ND	F1	125	153		ug/L		122	71 - 125
Acetone	ND		125	149		ug/L		119	56 - 142
Benzene	ND		25.0	29.1		ug/L		116	71 - 124
Bromodichloromethane	ND	F1	25.0	30.6		ug/L		122	80 - 122
Bromoform	ND		25.0	27.2		ug/L		109	61 - 132
Bromomethane	ND		25.0	32.8		ug/L		131	55 - 144
Carbon disulfide	ND	F1 F2	25.0	12.0	F1	ug/L		48	59 - 134
Carbon tetrachloride	ND		25.0	31.3		ug/L		125	72 - 134
Chlorobenzene	ND	F1	25.0	29.7		ug/L		119	80 - 120
Chloroethane	ND		25.0	29.0		ug/L		116	69 - 136
Chloroform	0.56	J	25.0	27.7		ug/L		109	73 - 127
Chloromethane	ND		25.0	26.8		ug/L		107	68 - 124
cis-1,2-Dichloroethene	4.8		25.0	33.7		ug/L		116	74 - 124
cis-1,3-Dichloropropene	ND		25.0	29.6		ug/L		118	74 - 124
Cyclohexane	ND		25.0	30.1		ug/L		120	59 - 135
Dibromochloromethane	ND	F1	25.0	31.7	F1	ug/L		127	75 - 125
Dichlorodifluoromethane	ND		25.0	25.0		ug/L		100	59 - 135
Ethylbenzene	ND	F1	25.0	30.0		ug/L		120	77 - 123
Isopropylbenzene	ND	F1	25.0	30.1		ug/L		120	77 - 122
m,p-Xylene	ND	F1	25.0	30.3		ug/L		121	76 - 122
Methyl acetate	ND		50.0	58.5		ug/L		117	74 - 133
Methyl tert-butyl ether	ND	F1	25.0	29.1		ug/L		116	77 - 120
Methylcyclohexane	ND		25.0	29.5		ug/L		118	68 - 134
Methylene Chloride	ND		25.0	20.8		ug/L		83	75 - 124
Naphthalene	ND		25.0	29.0		ug/L		116	66 - 125
n-Butylbenzene	ND	F1	25.0	30.1		ug/L		120	71 - 128
N-Propylbenzene	ND		25.0	29.9		ug/L		120	75 - 127
o-Xylene	ND	F1	25.0	29.6		ug/L		118	76 - 122
sec-Butylbenzene	ND	F1	25.0	30.6		ug/L		122	74 - 127
Styrene	ND	F1	25.0	30.3	F1	ug/L		121	80 - 120
tert-Butylbenzene	ND	F1	25.0	30.7		ug/L		123	75 - 123
Tetrachloroethene	4.2	F1	25.0	34.3		ug/L		121	74 - 122
Toluene	ND		25.0	29.7		ug/L		119	80 - 122
trans-1,2-Dichloroethene	ND		25.0	29.9		ug/L		120	73 - 127
trans-1,3-Dichloropropene	ND	F1	25.0	31.1	F1	ug/L		125	80 - 120
Trichloroethene	ND	F1	25.0	30.2		ug/L		121	74 - 123
Trichlorofluoromethane	ND		25.0	31.5		ug/L		126	62 - 150
Vinyl chloride	ND		25.0	30.9		ug/L		124	65 - 133

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

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 480-207520-2 MSD
Matrix: Water
Analysis Batch: 664301

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	25.0	32.5	F1	ug/L		130	73 - 126	5	15
1,1,2,2-Tetrachloroethane	ND	F1	25.0	31.6	F1	ug/L		127	76 - 120	6	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.6		ug/L		122	61 - 148	7	20
1,1,2-Trichloroethane	ND	F1	25.0	31.6	F1	ug/L		126	76 - 122	6	15
1,1-Dichloroethane	ND	F1	25.0	30.9	F1	ug/L		123	77 - 120	5	20
1,1-Dichloroethene	ND		25.0	31.7		ug/L		127	66 - 127	6	16
1,2,4-Trichlorobenzene	ND		25.0	30.5		ug/L		122	79 - 122	7	20
1,2,4-Trimethylbenzene	ND	F1	25.0	31.6	F1	ug/L		127	76 - 121	5	20
1,2-Dibromo-3-Chloropropane	ND	F1	25.0	34.8	F1	ug/L		139	56 - 134	10	15
1,2-Dibromoethane	ND	F1	25.0	31.8	F1	ug/L		127	77 - 120	2	15
1,2-Dichlorobenzene	ND		25.0	30.6		ug/L		122	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	29.8		ug/L		119	75 - 120	5	20
1,2-Dichloropropane	ND	F1	25.0	30.9	F1	ug/L		124	76 - 120	4	20
1,3,5-Trimethylbenzene	ND	F1	25.0	31.7	F1	ug/L		127	77 - 121	6	20
1,3-Dichlorobenzene	ND	F1	25.0	31.0	F1	ug/L		124	77 - 120	4	20
1,4-Dichlorobenzene	ND		25.0	30.7		ug/L		123	78 - 124	6	20
2-Butanone (MEK)	ND	*+	125	172		ug/L		138	57 - 140	7	20
2-Hexanone	ND	F1	125	174	F1	ug/L		140	65 - 127	6	15
4-Isopropyltoluene	ND	F1	25.0	32.4	F1	ug/L		130	73 - 120	6	20
4-Methyl-2-pentanone (MIBK)	ND	F1	125	161	F1	ug/L		129	71 - 125	5	35
Acetone	ND		125	156		ug/L		125	56 - 142	4	15
Benzene	ND		25.0	30.7		ug/L		123	71 - 124	6	13
Bromodichloromethane	ND	F1	25.0	31.8	F1	ug/L		127	80 - 122	4	15
Bromoform	ND		25.0	28.6		ug/L		114	61 - 132	5	15
Bromomethane	ND		25.0	34.0		ug/L		136	55 - 144	4	15
Carbon disulfide	ND	F1 F2	25.0	14.4	F1 F2	ug/L		58	59 - 134	18	15
Carbon tetrachloride	ND		25.0	33.0		ug/L		132	72 - 134	5	15
Chlorobenzene	ND	F1	25.0	30.4	F1	ug/L		122	80 - 120	2	25
Chloroethane	ND		25.0	28.6		ug/L		114	69 - 136	1	15
Chloroform	0.56	J	25.0	29.2		ug/L		115	73 - 127	5	20
Chloromethane	ND		25.0	30.1		ug/L		120	68 - 124	12	15
cis-1,2-Dichloroethene	4.8		25.0	34.3		ug/L		118	74 - 124	2	15
cis-1,3-Dichloropropene	ND		25.0	30.8		ug/L		123	74 - 124	4	15
Cyclohexane	ND		25.0	31.6		ug/L		126	59 - 135	5	20
Dibromochloromethane	ND	F1	25.0	33.6	F1	ug/L		134	75 - 125	6	15
Dichlorodifluoromethane	ND		25.0	29.4		ug/L		117	59 - 135	16	20
Ethylbenzene	ND	F1	25.0	31.1	F1	ug/L		124	77 - 123	4	15
Isopropylbenzene	ND	F1	25.0	32.1	F1	ug/L		128	77 - 122	6	20
m,p-Xylene	ND	F1	25.0	31.3	F1	ug/L		125	76 - 122	3	16
Methyl acetate	ND		50.0	63.6		ug/L		127	74 - 133	8	20
Methyl tert-butyl ether	ND	F1	25.0	30.5	F1	ug/L		122	77 - 120	5	37
Methylcyclohexane	ND		25.0	31.7		ug/L		127	68 - 134	7	20

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

Lab Sample ID: 480-207520-2 MSD
Client Sample ID: 828109-MW-9-9-19-040323
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 664301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	ND		25.0	23.3		ug/L		93	75 - 124	11	15
Naphthalene	ND		25.0	31.2		ug/L		125	66 - 125	7	20
n-Butylbenzene	ND	F1	25.0	32.2	F1	ug/L		129	71 - 128	7	15
N-Propylbenzene	ND		25.0	31.9		ug/L		127	75 - 127	6	15
o-Xylene	ND	F1	25.0	30.7	F1	ug/L		123	76 - 122	4	16
sec-Butylbenzene	ND	F1	25.0	32.5	F1	ug/L		130	74 - 127	6	15
Styrene	ND	F1	25.0	31.3	F1	ug/L		125	80 - 120	3	20
tert-Butylbenzene	ND	F1	25.0	32.8	F1	ug/L		131	75 - 123	7	15
Tetrachloroethene	4.2	F1	25.0	35.5	F1	ug/L		125	74 - 122	4	20
Toluene	ND		25.0	30.2		ug/L		121	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	31.5		ug/L		126	73 - 127	5	20
trans-1,3-Dichloropropene	ND	F1	25.0	31.9	F1	ug/L		128	80 - 120	2	15
Trichloroethene	ND	F1	25.0	31.5	F1	ug/L		126	74 - 123	4	16
Trichlorofluoromethane	ND		25.0	33.2		ug/L		133	62 - 150	5	20
Vinyl chloride	ND		25.0	32.5		ug/L		130	65 - 133	5	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

QC Association Summary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

GC/MS VOA

Prep Batch: 664087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207520-9	828109-IDW-SOIL-040423	Total/NA	Solid	5035A_L	
MB 480-664087/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-664087/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 664088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207520-9	828109-IDW-SOIL-040423	Total/NA	Solid	8260C	664087
MB 480-664087/2-A	Method Blank	Total/NA	Solid	8260C	664087
LCS 480-664087/1-A	Lab Control Sample	Total/NA	Solid	8260C	664087

Analysis Batch: 664297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207520-3	828109-MW-10-3-8-040323	Total/NA	Water	8260C	
480-207520-4	828109-MW-11-3-13-040323	Total/NA	Water	8260C	
480-207520-5	828109-MW-905-8.5-18.5-040323	Total/NA	Water	8260C	
480-207520-6	828109-MW-3-8-18-040423	Total/NA	Water	8260C	
480-207520-7	TRIP BLANK	Total/NA	Water	8260C	
480-207520-8	828109-IDW-WW-040423	Total/NA	Water	8260C	
MB 480-664297/7	Method Blank	Total/NA	Water	8260C	
LCS 480-664297/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 664301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207520-1	828109-MW-5-8.5-18.5-040323	Total/NA	Water	8260C	
480-207520-2	828109-MW-9-9-19-040323	Total/NA	Water	8260C	
MB 480-664301/8	Method Blank	Total/NA	Water	8260C	
LCS 480-664301/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-664301/33	Lab Control Sample Dup	Total/NA	Water	8260C	
480-207520-2 MS	828109-MW-9-9-19-040323	Total/NA	Water	8260C	
480-207520-2 MSD	828109-MW-9-9-19-040323	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 664083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207520-9	828109-IDW-SOIL-040423	Total/NA	Solid	Moisture	
480-207520-9 DU	828109-IDW-SOIL-040423	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-5-8.5-18.5-040323
Lab Sample ID: 480-207520-1
Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	664301	CR	EET BUF	04/07/23 17:54

Client Sample ID: 828109-MW-9-9-19-040323
Lab Sample ID: 480-207520-2
Date Collected: 04/03/23 15:25
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	664301	CR	EET BUF	04/07/23 18:17

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207520-3
Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	664297	CR	EET BUF	04/07/23 16:30

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207520-4
Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	664297	CR	EET BUF	04/07/23 16:53

Client Sample ID: 828109-MW-905-8.5-18.5-040323
Lab Sample ID: 480-207520-5
Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	664297	CR	EET BUF	04/07/23 17:15

Client Sample ID: 828109-MW-3-8-18-040423
Lab Sample ID: 480-207520-6
Date Collected: 04/04/23 13:50
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	664297	CR	EET BUF	04/07/23 17:38

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-207520-7
Date Collected: 04/03/23 00:00
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	664297	CR	EET BUF	04/07/23 18:00

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207520-8
Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	664297	CR	EET BUF	04/07/23 18:23

Client Sample ID: 828109-IDW-SOIL-040423
Lab Sample ID: 480-207520-9
Date Collected: 04/04/23 08:00
Matrix: Solid
Date Received: 04/05/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	664083	JMM	EET BUF	04/05/23 15:57

Client Sample ID: 828109-IDW-SOIL-040423
Lab Sample ID: 480-207520-9
Date Collected: 04/04/23 08:00
Matrix: Solid
Date Received: 04/05/23 09:45
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			664087	CDC	EET BUF	04/05/23 16:00
Total/NA	Analysis	8260C		1	664088	CDC	EET BUF	04/05/23 19:45

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
5030C	Purge and Trap	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CDM Smith Inc
Job ID: 480-207520-1
Project/Site: CDM Smith - Speedy's Cleaners

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207520-1	828109-MW-5-8.5-18.5-040323	Water	04/03/23 15:35	04/05/23 09:45
480-207520-2	828109-MW-9-9-19-040323	Water	04/03/23 15:25	04/05/23 09:45
480-207520-3	828109-MW-10-3-8-040323	Water	04/03/23 12:05	04/05/23 09:45
480-207520-4	828109-MW-11-3-13-040323	Water	04/03/23 12:08	04/05/23 09:45
480-207520-5	828109-MW-905-8.5-18.5-040323	Water	04/03/23 15:35	04/05/23 09:45
480-207520-6	828109-MW-3-8-18-040423	Water	04/04/23 13:50	04/05/23 09:45
480-207520-7	TRIP BLANK	Water	04/03/23 00:00	04/05/23 09:45
480-207520-8	828109-IDW-WW-040423	Water	04/04/23 10:15	04/05/23 09:45
480-207520-9	828109-IDW-SOIL-040423	Solid	04/04/23 08:00	04/05/23 09:45

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: SCG/MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.1
Client Contact: William Wert	Phone: (607) 239-3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: CDM Smith Inc	PWSID:			Job #:

Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23	Analysis Requested	Preservation Codes: A - HCL, B - NaOH, M - Hexane, N - None, O - AsNaO2
City: Latham	TAT Requested (days): 10		
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No		
Phone:	PO #: 110645		
Email: wertwa@cdmsmith.com	WO #:		
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213		
Site:	SSOW#:		Other:

480-207520 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS - Local Method	300.0_28D - Cl/SO4	5310C - TOC	SM4500_S2_F - Sulfide	353.2 - Nitrate/nitrite	2320B - Alk	8260C - TCL VOCs	1010A, 8082A, 9012B, 9045C	1633 -	6010C, 7470A, 8081B, 8151A, 8270D	8082A -	8081B, 8270D	Total Number of cont	Special Instructions/Note:
Preservation Code:					X	X	N	N	N	A	CB	N	N	MX	N	N	N	N	N	X	
828109-MW-5-8.5-18.5-040323	4/3/23	15:35	G	Water										X						3	
828109-MW-9-9-19-040323	4/3/23	15:25	G	Water										X						3	
828109-MW-9-9-19-040323-MS	4/3/23	15:25	G	Water										X						3	
828109-MW-9-9-19-040323-MSD	4/3/23	15:25	G	Water										X						3	
828109-MW-10-3-8-040323	4/3/23	12:05	G	Water										X						3	
828109-MW-11-3-13-040323	4/3/23	12:08	G	Solid Water										X						3	
828109-MW-905-8.5-18.5-040323	4/3/23	15:35	G	Water										X						3	
828109-MW-3-8-18-040423	4/4/23	13:50	G	water										X						3	
Trip Blank	3/30/23			water										X						2	lot# Fisher 219209

Page 40 of 42

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: All vials have HCL Except Page 2

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Josh Delaney	4/4/23 16:45	CDM Smith	[illegible]	4/5/23 945	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9 #1 ICE

4/11/2023

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JCL/MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.2
Client Contact: William Wert	Phone: (607)239 3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23			
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A -	6010C, 7470A	9012B -	9040B - pH	1010A - Ignitability, Pensky-Martens Closed-Cup Method	8260C								Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	B	N	N	N										
828109 - IDW - WW - 040423	4/4/23	10:15	C	Water								X								3	
				~~Water~~																	
				~~Water~~																	
				~~Water~~																	
				~~Water~~																	
828109 - IDW - Soil - 040423	4/4/23	8:00	C	Solid								X								1	
				~~Water~~																	
Trip Blank	3/30/23			Water								X								2	lot # Fischer 218207

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: NP HCL

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Josh Bloom	4/4/23 16:45	CDM Smith	[illegible]	4/5/23 945	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207520-1

Login Number: 207520

List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: William A Wert
CDM Smith Inc
11 British American Blvd
Suite 200
Latham, New York 12110

Generated 6/1/2023 3:50:44 PM

JOB DESCRIPTION

CDM Smith - Speedy's Cleaners

JOB NUMBER

480-207597-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

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 Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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 Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
6/1/2023 3:50:44 PM

Authorized for release by
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 9
Isotope Dilution Summary 32
QC Sample Results 35
QC Association Summary 54
Lab Chronicle 56
Certification Summary 58
Method Summary 60
Sample Summary 61
Chain of Custody 62
Receipt Checklists 66

Definitions/Glossary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-207597-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207597-1

Receipt
The samples were received on 4/5/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
Method 1633: The following samples were received at the laboratory outside the required temperature criteria: 828109-MW-9-9-19-040323 (480-207597-1), 828109-MW-9-9-19-040323 (480-207597-1[MS]), 828109-MW-9-9-19-040323 (480-207597-1[MSD]), 828109-MW-10-3-8-040323 (480-207597-2), 828109-MW-11-3-13-040323 (480-207597-3), 828109-MW-5-8.5-18.5-040323 (480-207597-4), 828109-MW-905-8.5-18.5-040323 (480-207597-5), 828109-MW-EB-01-040323 (480-207597-6), 828109-IDW-WW-040423 (480-207597-7), 828109-MW-3-8-18-040423 (480-207597-8), 828109-IDW-SOIL-040423 (480-207597-9) and 828109-EB-02-040423 (480-207597-10). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

LCMS
Method 1633: The recovery for the labeled isotope(s) 13C2 PFTeDA, 13C8 FOSA, d5-NEtFOSAA and M2-6:2 FTS in the followi sample: 828109-IDW-WW-040423 (480-207597-7) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was within QC acceptance limits.

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

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

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

Detection Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-9-9-19-040323 — Lab Sample ID: 480-207597-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	9.6		6.8	1.7	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	7.2	I	3.4	0.85	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	5.9		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	1.7		1.7	0.44	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	4.6		1.7	0.55	ng/L	1		1633	Total/NA
Perfluorononanoic acid	0.82	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.5		1.7	0.26	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	1.1	J	1.7	0.49	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	5.3		1.7	0.43	ng/L	1		1633	Total/NA

Client Sample ID: 828109-MW-10-3-8-040323 — Lab Sample ID: 480-207597-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	82		7.5	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	59		3.8	0.94	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	42		1.9	0.47	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	14		1.9	0.49	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	31		1.9	0.60	ng/L	1		1633	Total/NA
Perfluorononanoic acid	1.1	J	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	14		1.9	0.28	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	3.6		1.9	0.47	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	6.6		1.9	0.54	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	17		1.9	0.47	ng/L	1		1633	Total/NA

Client Sample ID: 828109-MW-11-3-13-040323 — Lab Sample ID: 480-207597-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	40		7.0	1.7	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	3.5		3.5	0.87	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	1.6	J	1.7	0.56	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	24		1.7	0.26	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	0.45	J	1.7	0.44	ng/L	1		1633	Total/NA

Client Sample ID: 828109-MW-5-8.5-18.5-040323 — Lab Sample ID: 480-207597-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	9.7		7.3	1.8	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	21		3.7	0.92	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	18		1.8	0.46	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	9.2		1.8	0.48	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	19		1.8	0.59	ng/L	1		1633	Total/NA
Perfluorononanoic acid	1.0	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	3.5		1.8	0.28	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	1.4	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	4.4		1.8	0.52	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	17	I	1.8	0.46	ng/L	1		1633	Total/NA

Client Sample ID: 828109-MW-905-8.5-18.5-040323 — Lab Sample ID: 480-207597-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	9.9		7.3	1.8	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	19	I	3.7	0.91	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	20		1.8	0.46	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: 828109-MW-905-8.5-18.5-040323 (Continued) — Lab Sample ID: 480-207597-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	8.0		1.8	0.48	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	18		1.8	0.59	ng/L	1		1633	Total/NA
Perfluorononanoic acid	1.5	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.9	I	1.8	0.27	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	1.1	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	4.3		1.8	0.52	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	17	I	1.8	0.46	ng/L	1		1633	Total/NA

Client Sample ID: 828109-MW-EB-01-040323 — Lab Sample ID: 480-207597-6

No Detections.

Client Sample ID: 828109-IDW-WW-040423 — Lab Sample ID: 480-207597-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	28		7.6	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	20		3.8	0.95	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	13		1.9	0.47	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	4.3		1.9	0.49	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	10		1.9	0.61	ng/L	1		1633	Total/NA
Perfluorononanoic acid	1.2	J	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	11		1.9	0.28	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	1.3	J I	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	3.1		1.9	0.54	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid - DL	5.0	J H I	19	4.9	ng/L	10		1633	Total/NA
Perfluorooctanoic acid - DL	15	J H	19	6.1	ng/L	10		1633	Total/NA
Perfluorobutanesulfonic acid - DL	10	J H	19	2.8	ng/L	10		1633	Total/NA
Perfluorobutanoic acid - RA	32	H	7.6	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid - RA	16	H	3.8	0.95	ng/L	1		1633	Total/NA
Perfluorohexanoic acid - RA	15	H	1.9	0.47	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid - RA	3.7	H	1.9	0.49	ng/L	1		1633	Total/NA
Perfluorooctanoic acid - RA	12	H	1.9	0.61	ng/L	1		1633	Total/NA
Perfluorononanoic acid - RA	1.2	J H	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid - RA	9.9	H	1.9	0.28	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid - RA	1.2	J H	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid - RA	3.0	H	1.9	0.54	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid - RA	9.0	H	1.9	0.47	ng/L	1		1633	Total/NA
Perfluorobutanoic acid - RE	32	H	7.7	1.9	ng/L	1		1633	Total/NA
Perfluoropentanoic acid - RE	21	H	3.8	0.96	ng/L	1		1633	Total/NA
Perfluorohexanoic acid - RE	12	H	1.9	0.48	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid - RE	4.7	H	1.9	0.50	ng/L	1		1633	Total/NA
Perfluorooctanoic acid - RE	13	H	1.9	0.61	ng/L	1		1633	Total/NA
Perfluorononanoic acid - RE	1.5	J H	1.9	0.48	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid - RE	11	H	1.9	0.29	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid - RE	1.6	J H I	1.9	0.48	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid - RE	2.7	H	1.9	0.55	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid - RE	9.0	H	1.9	0.48	ng/L	1		1633	Total/NA

Client Sample ID: 828109-MW-3-8-18-040423 — Lab Sample ID: 480-207597-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	56		7.3	1.8	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	15		3.7	0.92	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 828109-MW-3-8-18-040423 (Continued) — Lab Sample ID: 480-207597-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	16		1.8	0.46	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	14		1.8	0.48	ng/L	1		1633	Total/NA
Perfluorooctanoic acid	41		1.8	0.59	ng/L	1		1633	Total/NA
Perfluorononanoic acid	6.8		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorodecanoic acid	1.7	J	1.8	0.46	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	5.6		1.8	0.28	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid	2.1		1.8	0.46	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid	11		1.8	0.52	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid	2.2		1.8	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	110		1.8	0.46	ng/L	1		1633	Total/NA
NMeFOSAA	1.2	J	3.7	1.1	ng/L	1		1633	Total/NA

Client Sample ID: 828109-EB-02-040423 — Lab Sample ID: 480-207597-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-9-9-19-040323
Date Collected: 04/03/23 15:25
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**9.6**		6.8	1.7	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoropentanoic acid	**7.2**	**I**	3.4	0.85	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorohexanoic acid	**5.9**		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoroheptanoic acid	**1.7**		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorooctanoic acid	**4.6**		1.7	0.55	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorononanoic acid	**0.82**	**J**	1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorodecanoic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoroundecanoic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorododecanoic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorotridecanoic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorotetradecanoic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorobutanesulfonic acid	**2.5**		1.7	0.26	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoropentanesulfonic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorohexanesulfonic acid	**1.1**	**J**	1.7	0.49	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoroheptanesulfonic acid	ND		1.7	0.34	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorooctanesulfonic acid	**5.3**		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorononanesulfonic acid	ND		1.7	0.34	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorodecanesulfonic acid	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.77	ng/L		04/27/23 17:55	05/08/23 01:37	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		6.8	1.5	ng/L		04/27/23 17:55	05/08/23 01:37	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		6.8	2.1	ng/L		04/27/23 17:55	05/08/23 01:37	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		6.8	2.2	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluorooctanesulfonamide	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
NMeFOSA	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.7	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
NMeFOSAA	ND		3.4	1.0	ng/L		04/27/23 17:55	05/08/23 01:37	1
NEtFOSAA	ND		1.7	0.60	ng/L		04/27/23 17:55	05/08/23 01:37	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.3	ng/L		04/27/23 17:55	05/08/23 01:37	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.3	ng/L		04/27/23 17:55	05/08/23 01:37	1
HFPO-DA	ND		6.8	1.7	ng/L		04/27/23 17:55	05/08/23 01:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.8	1.3	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoro-3-methoxypropanoic acid	ND		3.4	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoro(4-methoxybutanoic acid)	ND		3.4	0.85	ng/L		04/27/23 17:55	05/08/23 01:37	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.4	0.85	ng/L		04/27/23 17:55	05/08/23 01:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.8	0.85	ng/L		04/27/23 17:55	05/08/23 01:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.8	1.7	ng/L		04/27/23 17:55	05/08/23 01:37	1
PFEESA	ND	F2	3.4	0.43	ng/L		04/27/23 17:55	05/08/23 01:37	1
3:3 FTCA	ND		8.5	1.3	ng/L		04/27/23 17:55	05/08/23 01:37	1
5:3 FTCA	ND	F1	43	8.5	ng/L		04/27/23 17:55	05/08/23 01:37	1
7:3 FTCA	ND		43	8.5	ng/L		04/27/23 17:55	05/08/23 01:37	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-9-9-19-040323
Date Collected: 04/03/23 15:25
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-1
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78.9		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C5 PFPeA	93.3		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C5 PFHxA	94.1		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C4 PFHpA	95.1		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C8 PFOA	81.3		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C9 PFNA	81.7		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C6 PFDA	73.3		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C7 PFUnA	65.0		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C2-PFDoDA	55.9		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C2 PFTeDA	51.3		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C3 PFBS	88.4		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C3 PFHxS	82.5		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C8 PFOS	74.0		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C8 FOSA	74.9		20 - 150	04/27/23 17:55	05/08/23 01:37	1
d3-NMeFOSAA	56.4		20 - 150	04/27/23 17:55	05/08/23 01:37	1
d5-NEtFOSAA	58.0		20 - 150	04/27/23 17:55	05/08/23 01:37	1
M2-4:2 FTS	72.3		20 - 150	04/27/23 17:55	05/08/23 01:37	1
M2-6:2 FTS	98.8		20 - 150	04/27/23 17:55	05/08/23 01:37	1
M2-8:2 FTS	51.4		20 - 150	04/27/23 17:55	05/08/23 01:37	1
13C3 HFPO-DA	91.8		20 - 150	04/27/23 17:55	05/08/23 01:37	1
d7-N-MeFOSE-M	55.0		20 - 150	04/27/23 17:55	05/08/23 01:37	1
d9-N-EtFOSE-M	53.2		20 - 150	04/27/23 17:55	05/08/23 01:37	1
d5-NEtPFOSA	50.2		20 - 150	04/27/23 17:55	05/08/23 01:37	1
d3-NMePFOSA	54.2		20 - 150	04/27/23 17:55	05/08/23 01:37	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-10-3-8-040323
Date Collected: 04/03/23 12:05
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**82**		7.5	1.9	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoropentanoic acid	**59**		3.8	0.94	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorohexanoic acid	**42**		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoroheptanoic acid	**14**		1.9	0.49	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorooctanoic acid	**31**		1.9	0.60	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorononanoic acid	**1.1**	**J**	1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorodecanoic acid	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoroundecanoic acid	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorododecanoic acid	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorotridecanoic acid	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorotetradecanoic acid	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorobutanesulfonic acid	**14**		1.9	0.28	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoropentanesulfonic acid	**3.6**		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorohexanesulfonic acid	**6.6**		1.9	0.54	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoroheptanesulfonic acid	ND		1.9	0.38	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorooctanesulfonic acid	**17**		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorononanesulfonic acid	ND		1.9	0.38	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorodecanesulfonic acid	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85	ng/L		04/27/23 17:55	05/08/23 02:17	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.5	1.6	ng/L		04/27/23 17:55	05/08/23 02:17	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.5	2.4	ng/L		04/27/23 17:55	05/08/23 02:17	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.5	2.4	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluorooctanesulfonamide	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
NMeFOSA	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
NMeFOSAA	ND		3.8	1.1	ng/L		04/27/23 17:55	05/08/23 02:17	1
NEtFOSAA	ND		1.9	0.66	ng/L		04/27/23 17:55	05/08/23 02:17	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.7	ng/L		04/27/23 17:55	05/08/23 02:17	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.7	ng/L		04/27/23 17:55	05/08/23 02:17	1
HFPO-DA	ND		7.5	1.9	ng/L		04/27/23 17:55	05/08/23 02:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoro-3-methoxypropanoic acid	ND		3.8	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoro(4-methoxybutanoic acid)	ND		3.8	0.94	ng/L		04/27/23 17:55	05/08/23 02:17	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.8	0.94	ng/L		04/27/23 17:55	05/08/23 02:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.5	0.94	ng/L		04/27/23 17:55	05/08/23 02:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.5	1.9	ng/L		04/27/23 17:55	05/08/23 02:17	1
PFEESA	ND		3.8	0.47	ng/L		04/27/23 17:55	05/08/23 02:17	1
3:3 FTCA	ND		9.4	1.4	ng/L		04/27/23 17:55	05/08/23 02:17	1
5:3 FTCA	ND		47	9.4	ng/L		04/27/23 17:55	05/08/23 02:17	1
7:3 FTCA	ND		47	9.4	ng/L		04/27/23 17:55	05/08/23 02:17	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-10-3-8-040323
Date Collected: 04/03/23 12:05
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-2
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	70.7		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C5 PFPeA	101		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C5 PFHxA	80.7		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C4 PFHpA	80.0		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C8 PFOA	73.7		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C9 PFNA	85.3		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C6 PFDA	89.4		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C7 PFUnA	74.8		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C2-PFDoDA	67.6		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C2 PFTeDA	63.2		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C3 PFBS	96.4		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C3 PFHxS	83.4		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C8 PFOS	86.3		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C8 FOSA	82.7		20 - 150	04/27/23 17:55	05/08/23 02:17	1
d3-NMeFOSAA	69.2		20 - 150	04/27/23 17:55	05/08/23 02:17	1
d5-NEtFOSAA	68.8		20 - 150	04/27/23 17:55	05/08/23 02:17	1
M2-4:2 FTS	102		20 - 150	04/27/23 17:55	05/08/23 02:17	1
M2-6:2 FTS	114		20 - 150	04/27/23 17:55	05/08/23 02:17	1
M2-8:2 FTS	81.3		20 - 150	04/27/23 17:55	05/08/23 02:17	1
13C3 HFPO-DA	77.3		20 - 150	04/27/23 17:55	05/08/23 02:17	1
d7-N-MeFOSE-M	68.6		20 - 150	04/27/23 17:55	05/08/23 02:17	1
d9-N-EtFOSE-M	66.6		20 - 150	04/27/23 17:55	05/08/23 02:17	1
d5-NEtPFOSA	48.0		20 - 150	04/27/23 17:55	05/08/23 02:17	1
d3-NMePFOSA	53.9		20 - 150	04/27/23 17:55	05/08/23 02:17	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-11-3-13-040323
Date Collected: 04/03/23 12:08
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**40**		7.0	1.7	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoropentanoic acid	**3.5**		3.5	0.87	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorohexanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoroheptanoic acid	ND		1.7	0.45	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorooctanoic acid	**1.6**	**J**	1.7	0.56	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorononanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorodecanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoroundecanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorododecanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorotridecanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorotetradecanoic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorobutanesulfonic acid	**24**		1.7	0.26	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoropentanesulfonic acid	**0.45**	**J**	1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorohexanesulfonic acid	ND		1.7	0.50	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoroheptanesulfonic acid	ND		1.7	0.35	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorooctanesulfonic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorononanesulfonic acid	ND		1.7	0.35	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorodecanesulfonic acid	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.78	ng/L		04/27/23 17:55	05/08/23 02:56	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.0	1.5	ng/L		04/27/23 17:55	05/08/23 02:56	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.0	2.2	ng/L		04/27/23 17:55	05/08/23 02:56	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.0	2.3	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluorooctanesulfonamide	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
NMeFOSA	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.7	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
NMeFOSAA	ND		3.5	1.0	ng/L		04/27/23 17:55	05/08/23 02:56	1
NEtFOSAA	ND		1.7	0.61	ng/L		04/27/23 17:55	05/08/23 02:56	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4	ng/L		04/27/23 17:55	05/08/23 02:56	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4	ng/L		04/27/23 17:55	05/08/23 02:56	1
HFPO-DA	ND		7.0	1.7	ng/L		04/27/23 17:55	05/08/23 02:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.3	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoro-3-methoxypropanoic acid	ND		3.5	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoro(4-methoxybutanoic acid)	ND		3.5	0.87	ng/L		04/27/23 17:55	05/08/23 02:56	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.5	0.87	ng/L		04/27/23 17:55	05/08/23 02:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	0.87	ng/L		04/27/23 17:55	05/08/23 02:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.7	ng/L		04/27/23 17:55	05/08/23 02:56	1
PFEESA	ND		3.5	0.44	ng/L		04/27/23 17:55	05/08/23 02:56	1
3:3 FTCA	ND		8.7	1.3	ng/L		04/27/23 17:55	05/08/23 02:56	1
5:3 FTCA	ND		44	8.7	ng/L		04/27/23 17:55	05/08/23 02:56	1
7:3 FTCA	ND		44	8.7	ng/L		04/27/23 17:55	05/08/23 02:56	1

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207597-3
Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/05/23 09:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72.6		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C5 PFPeA	95.0		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C5 PFHxA	77.6		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C4 PFHpA	76.6		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C8 PFOA	71.1		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C9 PFNA	76.8		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C6 PFDA	78.1		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C7 PFUnA	64.4		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C2-PFDoDA	59.6		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C2 PFTeDA	55.7		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C3 PFBS	86.8		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C3 PFHxS	81.4		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C8 PFOS	71.9		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C8 FOSA	69.5		20 - 150	04/27/23 17:55	05/08/23 02:56	1
d3-NMeFOSAA	55.7		20 - 150	04/27/23 17:55	05/08/23 02:56	1
d5-NEtFOSAA	59.8		20 - 150	04/27/23 17:55	05/08/23 02:56	1
M2-4:2 FTS	80.7		20 - 150	04/27/23 17:55	05/08/23 02:56	1
M2-6:2 FTS	80.1		20 - 150	04/27/23 17:55	05/08/23 02:56	1
M2-8:2 FTS	58.0		20 - 150	04/27/23 17:55	05/08/23 02:56	1
13C3 HFPO-DA	74.8		20 - 150	04/27/23 17:55	05/08/23 02:56	1
d7-N-MeFOSE-M	63.0		20 - 150	04/27/23 17:55	05/08/23 02:56	1
d9-N-EtFOSE-M	59.2		20 - 150	04/27/23 17:55	05/08/23 02:56	1
d5-NEtPFOSA	58.1		20 - 150	04/27/23 17:55	05/08/23 02:56	1
d3-NMePFOSA	61.7		20 - 150	04/27/23 17:55	05/08/23 02:56	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-5-8.5-18.5-040323
Date Collected: 04/03/23 15:35
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**9.7**		7.3	1.8	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoropentanoic acid	**21**		3.7	0.92	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorohexanoic acid	**18**		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoroheptanoic acid	**9.2**		1.8	0.48	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorooctanoic acid	**19**		1.8	0.59	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorononanoic acid	**1.0**	**J**	1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorobutanesulfonic acid	**3.5**		1.8	0.28	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoropentanesulfonic acid	**1.4**	**J**	1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorohexanesulfonic acid	**4.4**		1.8	0.52	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoroheptanesulfonic acid	ND		1.8	0.37	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorooctanesulfonic acid	**17**	**I**	1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorononanesulfonic acid	ND		1.8	0.37	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorodecanesulfonic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.83	ng/L		04/27/23 17:55	05/08/23 03:09	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.6	ng/L		04/27/23 17:55	05/08/23 03:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3	ng/L		04/27/23 17:55	05/08/23 03:09	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluorooctanesulfonamide	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
NMeFOSA	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
NMeFOSAA	ND		3.7	1.1	ng/L		04/27/23 17:55	05/08/23 03:09	1
NEtFOSAA	ND		1.8	0.64	ng/L		04/27/23 17:55	05/08/23 03:09	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		04/27/23 17:55	05/08/23 03:09	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		04/27/23 17:55	05/08/23 03:09	1
HFPO-DA	ND		7.3	1.8	ng/L		04/27/23 17:55	05/08/23 03:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoro-3-methoxypropanoic acid	ND		3.7	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoro(4-methoxybutanoic acid)	ND		3.7	0.92	ng/L		04/27/23 17:55	05/08/23 03:09	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.7	0.92	ng/L		04/27/23 17:55	05/08/23 03:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.92	ng/L		04/27/23 17:55	05/08/23 03:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8	ng/L		04/27/23 17:55	05/08/23 03:09	1
PFEESA	ND		3.7	0.46	ng/L		04/27/23 17:55	05/08/23 03:09	1
3:3 FTCA	ND		9.2	1.4	ng/L		04/27/23 17:55	05/08/23 03:09	1
5:3 FTCA	ND		46	9.2	ng/L		04/27/23 17:55	05/08/23 03:09	1
7:3 FTCA	ND		46	9.2	ng/L		04/27/23 17:55	05/08/23 03:09	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-5-8.5-18.5-040323
Date Collected: 04/03/23 15:35
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-4
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94.5		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C5 PFPeA	92.7		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C5 PFHxA	79.3		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C4 PFHpA	84.4		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C8 PFOA	86.7		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C9 PFNA	104		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C6 PFDA	81.4		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C7 PFUnA	68.3		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C2-PFDoDA	58.6		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C2 PFTeDA	52.5		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C3 PFBS	102		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C3 PFHxS	92.6		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C8 PFOS	87.7		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C8 FOSA	82.1		20 - 150	04/27/23 17:55	05/08/23 03:09	1
d3-NMeFOSAA	58.3		20 - 150	04/27/23 17:55	05/08/23 03:09	1
d5-NEtFOSAA	58.5		20 - 150	04/27/23 17:55	05/08/23 03:09	1
M2-4:2 FTS	93.0		20 - 150	04/27/23 17:55	05/08/23 03:09	1
M2-6:2 FTS	93.6		20 - 150	04/27/23 17:55	05/08/23 03:09	1
M2-8:2 FTS	60.7		20 - 150	04/27/23 17:55	05/08/23 03:09	1
13C3 HFPO-DA	85.1		20 - 150	04/27/23 17:55	05/08/23 03:09	1
d7-N-MeFOSE-M	53.6		20 - 150	04/27/23 17:55	05/08/23 03:09	1
d9-N-EtFOSE-M	52.4		20 - 150	04/27/23 17:55	05/08/23 03:09	1
d5-NEtPFOSA	50.2		20 - 150	04/27/23 17:55	05/08/23 03:09	1
d3-NMePFOSA	54.2		20 - 150	04/27/23 17:55	05/08/23 03:09	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-905-8.5-18.5-040323
Date Collected: 04/03/23 15:35
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**9.9**		7.3	1.8	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoropentanoic acid	**19**	**I**	3.7	0.91	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorohexanoic acid	**20**		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoroheptanoic acid	**8.0**		1.8	0.48	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorooctanoic acid	**18**		1.8	0.59	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorononanoic acid	**1.5**	**J**	1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorobutanesulfonic acid	**2.9**	**I**	1.8	0.27	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoropentanesulfonic acid	**1.1**	**J**	1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorohexanesulfonic acid	**4.3**		1.8	0.52	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoroheptanesulfonic acid	ND		1.8	0.37	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorooctanesulfonic acid	**17**	**I**	1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorononanesulfonic acid	ND		1.8	0.37	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorodecanesulfonic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82	ng/L		04/27/23 17:55	05/08/23 03:22	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.6	ng/L		04/27/23 17:55	05/08/23 03:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3	ng/L		04/27/23 17:55	05/08/23 03:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluorooctanesulfonamide	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
NMeFOSA	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
NMeFOSAA	ND		3.7	1.1	ng/L		04/27/23 17:55	05/08/23 03:22	1
NEtFOSAA	ND		1.8	0.64	ng/L		04/27/23 17:55	05/08/23 03:22	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		04/27/23 17:55	05/08/23 03:22	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		04/27/23 17:55	05/08/23 03:22	1
HFPO-DA	ND		7.3	1.8	ng/L		04/27/23 17:55	05/08/23 03:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoro-3-methoxypropanoic acid	ND		3.7	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoro(4-methoxybutanoic acid)	ND		3.7	0.91	ng/L		04/27/23 17:55	05/08/23 03:22	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.7	0.91	ng/L		04/27/23 17:55	05/08/23 03:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.91	ng/L		04/27/23 17:55	05/08/23 03:22	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8	ng/L		04/27/23 17:55	05/08/23 03:22	1
PFEESA	ND		3.7	0.46	ng/L		04/27/23 17:55	05/08/23 03:22	1
3:3 FTCA	ND		9.1	1.4	ng/L		04/27/23 17:55	05/08/23 03:22	1
5:3 FTCA	ND		46	9.1	ng/L		04/27/23 17:55	05/08/23 03:22	1
7:3 FTCA	ND		46	9.1	ng/L		04/27/23 17:55	05/08/23 03:22	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-905-8.5-18.5-040323
Date Collected: 04/03/23 15:35
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-5
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84.2		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C5 PFPeA	113		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C5 PFHxA	81.2		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C4 PFHpA	88.1		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C8 PFOA	80.7		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C9 PFNA	87.6		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C6 PFDA	69.8		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C7 PFUnA	61.5		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C2-PFDoDA	51.9		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C2 PFTeDA	47.1		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C3 PFBS	95.8		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C3 PFHxS	82.4		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C8 PFOS	81.6		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C8 FOSA	73.0		20 - 150	04/27/23 17:55	05/08/23 03:22	1
d3-NMeFOSAA	57.8		20 - 150	04/27/23 17:55	05/08/23 03:22	1
d5-NEtFOSAA	54.5		20 - 150	04/27/23 17:55	05/08/23 03:22	1
M2-4:2 FTS	88.2		20 - 150	04/27/23 17:55	05/08/23 03:22	1
M2-6:2 FTS	107		20 - 150	04/27/23 17:55	05/08/23 03:22	1
M2-8:2 FTS	58.0		20 - 150	04/27/23 17:55	05/08/23 03:22	1
13C3 HFPO-DA	97.5		20 - 150	04/27/23 17:55	05/08/23 03:22	1
d7-N-MeFOSE-M	50.2		20 - 150	04/27/23 17:55	05/08/23 03:22	1
d9-N-EtFOSE-M	50.0		20 - 150	04/27/23 17:55	05/08/23 03:22	1
d5-NEtPFOSA	48.2		20 - 150	04/27/23 17:55	05/08/23 03:22	1
d3-NMePFOSA	54.1		20 - 150	04/27/23 17:55	05/08/23 03:22	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-EB-01-040323
Date Collected: 04/03/23 16:30
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		7.0	1.8	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoropentanoic acid	ND		3.5	0.88	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorohexanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoroheptanoic acid	ND		1.8	0.46	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorooctanoic acid	ND		1.8	0.56	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorononanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorodecanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorobutanesulfonic acid	ND		1.8	0.26	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoropentanesulfonic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorohexanesulfonic acid	ND		1.8	0.50	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoroheptanesulfonic acid	ND		1.8	0.35	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorooctanesulfonic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorononanesulfonic acid	ND		1.8	0.35	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorodecanesulfonic acid	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.79	ng/L		04/27/23 17:55	05/08/23 03:35	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.0	1.5	ng/L		04/27/23 17:55	05/08/23 03:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.0	2.2	ng/L		04/27/23 17:55	05/08/23 03:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.0	2.3	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluorooctanesulfonamide	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
NMeFOSA	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
NMeFOSAA	ND		3.5	1.1	ng/L		04/27/23 17:55	05/08/23 03:35	1
NEtFOSAA	ND		1.8	0.62	ng/L		04/27/23 17:55	05/08/23 03:35	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.4	ng/L		04/27/23 17:55	05/08/23 03:35	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.4	ng/L		04/27/23 17:55	05/08/23 03:35	1
HFPO-DA	ND		7.0	1.8	ng/L		04/27/23 17:55	05/08/23 03:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.3	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoro-3-methoxypropanoic acid	ND		3.5	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoro(4-methoxybutanoic acid)	ND		3.5	0.88	ng/L		04/27/23 17:55	05/08/23 03:35	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.5	0.88	ng/L		04/27/23 17:55	05/08/23 03:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	0.88	ng/L		04/27/23 17:55	05/08/23 03:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.8	ng/L		04/27/23 17:55	05/08/23 03:35	1
PFEESA	ND		3.5	0.44	ng/L		04/27/23 17:55	05/08/23 03:35	1
3:3 FTCA	ND		8.8	1.3	ng/L		04/27/23 17:55	05/08/23 03:35	1
5:3 FTCA	ND		44	8.8	ng/L		04/27/23 17:55	05/08/23 03:35	1
7:3 FTCA	ND		44	8.8	ng/L		04/27/23 17:55	05/08/23 03:35	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-EB-01-040323
Date Collected: 04/03/23 16:30
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-6
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	83.9		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C5 PFPeA	77.6		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C5 PFHxA	76.1		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C4 PFHpA	93.7		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C8 PFOA	66.5		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C9 PFNA	88.8		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C6 PFDA	86.5		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C7 PFUnA	82.1		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C2-PFDoDA	75.5		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C2 PFTeDA	68.9		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C3 PFBS	88.4		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C3 PFHxS	82.5		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C8 PFOS	78.6		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C8 FOSA	72.3		20 - 150	04/27/23 17:55	05/08/23 03:35	1
d3-NMeFOSAA	57.5		20 - 150	04/27/23 17:55	05/08/23 03:35	1
d5-NEtFOSAA	66.0		20 - 150	04/27/23 17:55	05/08/23 03:35	1
M2-4:2 FTS	75.7		20 - 150	04/27/23 17:55	05/08/23 03:35	1
M2-6:2 FTS	101		20 - 150	04/27/23 17:55	05/08/23 03:35	1
M2-8:2 FTS	62.3		20 - 150	04/27/23 17:55	05/08/23 03:35	1
13C3 HFPO-DA	84.2		20 - 150	04/27/23 17:55	05/08/23 03:35	1
d7-N-MeFOSE-M	66.3		20 - 150	04/27/23 17:55	05/08/23 03:35	1
d9-N-EtFOSE-M	67.9		20 - 150	04/27/23 17:55	05/08/23 03:35	1
d5-NEtPFOSA	58.1		20 - 150	04/27/23 17:55	05/08/23 03:35	1
d3-NMePFOSA	56.6		20 - 150	04/27/23 17:55	05/08/23 03:35	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-IDW-WW-040423
Date Collected: 04/04/23 10:15
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**28**		7.6	1.9	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoropentanoic acid	**20**		3.8	0.95	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorohexanoic acid	**13**		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoroheptanoic acid	**4.3**		1.9	0.49	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorooctanoic acid	**10**		1.9	0.61	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorononanoic acid	**1.2**	**J**	1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorodecanoic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoroundecanoic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorododecanoic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorotridecanoic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorotetradecanoic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorobutanesulfonic acid	**11**		1.9	0.28	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoropentanesulfonic acid	**1.3**	**J I**	1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorohexanesulfonic acid	**3.1**		1.9	0.54	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoroheptanesulfonic acid	ND		1.9	0.38	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorooctanesulfonic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorononanesulfonic acid	ND		1.9	0.38	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorodecanesulfonic acid	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85	ng/L		04/17/23 21:30	05/01/23 19:07	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.6	1.6	ng/L		04/17/23 21:30	05/01/23 19:07	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.6	2.4	ng/L		04/17/23 21:30	05/01/23 19:07	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.6	2.5	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluorooctanesulfonamide	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
NMeFOSA	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
NMeFOSAA	ND		3.8	1.1	ng/L		04/17/23 21:30	05/01/23 19:07	1
NEtFOSAA	ND		1.9	0.66	ng/L		04/17/23 21:30	05/01/23 19:07	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.7	ng/L		04/17/23 21:30	05/01/23 19:07	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.7	ng/L		04/17/23 21:30	05/01/23 19:07	1
HFPO-DA	ND		7.6	1.9	ng/L		04/17/23 21:30	05/01/23 19:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.6	1.4	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoro-3-methoxypropanoic acid	ND		3.8	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoro(4-methoxybutanoic acid)	ND		3.8	0.95	ng/L		04/17/23 21:30	05/01/23 19:07	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.8	0.95	ng/L		04/17/23 21:30	05/01/23 19:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.6	0.95	ng/L		04/17/23 21:30	05/01/23 19:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.6	1.9	ng/L		04/17/23 21:30	05/01/23 19:07	1
PFEESA	ND		3.8	0.47	ng/L		04/17/23 21:30	05/01/23 19:07	1
3:3 FTCA	ND		9.5	1.4	ng/L		04/17/23 21:30	05/01/23 19:07	1
5:3 FTCA	ND		47	9.5	ng/L		04/17/23 21:30	05/01/23 19:07	1
7:3 FTCA	ND		47	9.5	ng/L		04/17/23 21:30	05/01/23 19:07	1

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207597-7

Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	37.6		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C5 PFPeA	101		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C5 PFHxA	95.6		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C4 PFHpA	96.8		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C8 PFOA	81.6		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C9 PFNA	98.3		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C6 PFDA	96.7		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C7 PFUnA	59.0		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C2-PFDoDA	69.2		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C2 PFTeDA	162	*5+	20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C3 PFBS	78.6		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C3 PFHxS	89.3		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C8 PFOS	97.0		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C8 FOSA	179	*5+	20 - 150	04/17/23 21:30	05/01/23 19:07	1
d3-NMeFOSAA	60.1		20 - 150	04/17/23 21:30	05/01/23 19:07	1
d5-NEtFOSAA	166	*5+	20 - 150	04/17/23 21:30	05/01/23 19:07	1
M2-4:2 FTS	91.6		20 - 150	04/17/23 21:30	05/01/23 19:07	1
M2-6:2 FTS	174	*5+	20 - 150	04/17/23 21:30	05/01/23 19:07	1
M2-8:2 FTS	128		20 - 150	04/17/23 21:30	05/01/23 19:07	1
13C3 HFPO-DA	102		20 - 150	04/17/23 21:30	05/01/23 19:07	1
d7-N-MeFOSE-M	123		20 - 150	04/17/23 21:30	05/01/23 19:07	1
d9-N-EtFOSE-M	113		20 - 150	04/17/23 21:30	05/01/23 19:07	1
d5-NEtPFOSA	114		20 - 150	04/17/23 21:30	05/01/23 19:07	1
d3-NMePFOSA	127		20 - 150	04/17/23 21:30	05/01/23 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND	H	76	19	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoropentanoic acid	ND	H	38	9.5	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorohexanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoroheptanoic acid	**5.0**	**J H I**	19	4.9	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorooctanoic acid	**15**	**J H**	19	6.1	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorononanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorodecanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoroundecanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorododecanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorotridecanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorotetradecanoic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorobutanesulfonic acid	**10**	**J H**	19	2.8	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoropentanesulfonic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorohexanesulfonic acid	ND	H	19	5.4	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoroheptanesulfonic acid	ND	H	19	3.8	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorooctanesulfonic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorononanesulfonic acid	ND	H	19	3.8	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorodecanesulfonic acid	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorododecanesulfonic acid (PFDoS)	ND	H	19	8.5	ng/L		04/17/23 21:30	05/19/23 22:39	10
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	H	76	16	ng/L		04/17/23 21:30	05/19/23 22:39	10
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	H	76	24	ng/L		04/17/23 21:30	05/19/23 22:39	10

Client Sample ID: 828109-IDW-WW-040423
Date Collected: 04/04/23 10:15
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	H	76	25	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluorooctanesulfonamide	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
NMeFOSA	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
N-ethylperfluoro-1-octanesulfonamide	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
NMeFOSAA	ND	H	38	11	ng/L		04/17/23 21:30	05/19/23 22:39	10
NEtFOSAA	ND	H	19	6.6	ng/L		04/17/23 21:30	05/19/23 22:39	10
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	H	190	47	ng/L		04/17/23 21:30	05/19/23 22:39	10
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	H	190	47	ng/L		04/17/23 21:30	05/19/23 22:39	10
HFPO-DA	ND	H	76	19	ng/L		04/17/23 21:30	05/19/23 22:39	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	H	76	14	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoro-3-methoxypropanoic acid	ND	H	38	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoro(4-methoxybutanoic acid)	ND	H	38	9.5	ng/L		04/17/23 21:30	05/19/23 22:39	10
Perfluoro-3,6-dioxaheptanoic acid	ND	H	38	9.5	ng/L		04/17/23 21:30	05/19/23 22:39	10
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	H	76	9.5	ng/L		04/17/23 21:30	05/19/23 22:39	10
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	H	76	19	ng/L		04/17/23 21:30	05/19/23 22:39	10
PFEESA	ND	H	38	4.7	ng/L		04/17/23 21:30	05/19/23 22:39	10
3:3 FTCA	ND	H	95	14	ng/L		04/17/23 21:30	05/19/23 22:39	10
5:3 FTCA	ND	H	470	95	ng/L		04/17/23 21:30	05/19/23 22:39	10
7:3 FTCA	ND	H	470	95	ng/L		04/17/23 21:30	05/19/23 22:39	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*38.3*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C5 PFPeA	*81.7*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C5 PFHxA	*82.8*	*I*	*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C4 PFHpA	*83.7*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C8 PFOA	*66.1*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C9 PFNA	*85.2*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C6 PFDA	*77.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C7 PFUnA	*94.9*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C2-PFDoDA	*75.9*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C2 PFTeDA	*56.4*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C3 PFBS	*67.9*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C3 PFHxS	*66.7*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C8 PFOS	*85.2*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C8 FOSA	*97.2*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
d3-NMeFOSAA	*132*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
d5-NEtFOSAA	*99.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
M2-4:2 FTS	*90.0*	*I*	*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
M2-6:2 FTS	*69.5*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
M2-8:2 FTS	*62.4*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
13C3 HFPO-DA	*69.3*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
d7-N-MeFOSE-M	*77.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
d9-N-EtFOSE-M	*75.5*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*
d5-NEtPFOSA	*51.1*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:39*	*10*

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207597-7

Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	63.1		20 - 150	04/17/23 21:30	05/19/23 22:39	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**32**	**H**	7.6	1.9	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoropentanoic acid	**16**	**H**	3.8	0.95	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorohexanoic acid	**15**	**H**	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoroheptanoic acid	**3.7**	**H**	1.9	0.49	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorooctanoic acid	**12**	**H**	1.9	0.61	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorononanoic acid	**1.2**	**J H**	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorodecanoic acid	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoroundecanoic acid	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorododecanoic acid	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorotridecanoic acid	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorotetradecanoic acid	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorobutanesulfonic acid	**9.9**	**H**	1.9	0.28	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoropentanesulfonic acid	**1.2**	**J H**	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorohexanesulfonic acid	**3.0**	**H**	1.9	0.54	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoroheptanesulfonic acid	ND	H	1.9	0.38	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorooctanesulfonic acid	**9.0**	**H**	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorononanesulfonic acid	ND	H	1.9	0.38	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorodecanesulfonic acid	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.9	0.85	ng/L		04/17/23 21:30	05/19/23 22:26	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	H	7.6	1.6	ng/L		04/17/23 21:30	05/19/23 22:26	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	H	7.6	2.4	ng/L		04/17/23 21:30	05/19/23 22:26	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	H	7.6	2.5	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluorooctanesulfonamide	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
NMeFOSA	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
N-ethylperfluoro-1-octanesulfonamide	ND	H	1.9	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
NMeFOSAA	ND	H	3.8	1.1	ng/L		04/17/23 21:30	05/19/23 22:26	1
NEtFOSAA	ND	H	1.9	0.66	ng/L		04/17/23 21:30	05/19/23 22:26	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:26	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	H	19	4.7	ng/L		04/17/23 21:30	05/19/23 22:26	1
HFPO-DA	ND	H	7.6	1.9	ng/L		04/17/23 21:30	05/19/23 22:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	H	7.6	1.4	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoro-3-methoxypropanoic acid	ND	H	3.8	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoro(4-methoxybutanoic acid)	ND	H	3.8	0.95	ng/L		04/17/23 21:30	05/19/23 22:26	1
Perfluoro-3,6-dioxaheptanoic acid	ND	H	3.8	0.95	ng/L		04/17/23 21:30	05/19/23 22:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	H	7.6	0.95	ng/L		04/17/23 21:30	05/19/23 22:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	H	7.6	1.9	ng/L		04/17/23 21:30	05/19/23 22:26	1
PFEESA	ND	H	3.8	0.47	ng/L		04/17/23 21:30	05/19/23 22:26	1

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207597-7
Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3:3 FTCA	ND	H	9.5	1.4	ng/L		04/17/23 21:30	05/19/23 22:26	1
5:3 FTCA	ND	H	47	9.5	ng/L		04/17/23 21:30	05/19/23 22:26	1
7:3 FTCA	ND	H	47	9.5	ng/L		04/17/23 21:30	05/19/23 22:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*38.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C5 PFPeA	*89.1*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C5 PFHxA	*74.9*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C4 PFHpA	*83.3*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C8 PFOA	*91.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C9 PFNA	*92.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C6 PFDA	*81.2*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C7 PFUnA	*115*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C2-PFDoDA	*116*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C2 PFTeDA	*68.0*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C3 PFBS	*98.6*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C3 PFHxS	*88.5*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C8 PFOS	*99.4*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C8 FOSA	*132*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
d3-NMeFOSAA	*171*	**5+*	*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
d5-NEtFOSAA	*217*	**5+*	*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
M2-4:2 FTS	*154*	**5+*	*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
M2-6:2 FTS	*148*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
M2-8:2 FTS	*209*	**5+*	*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
13C3 HFPO-DA	*64.7*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
d7-N-MeFOSE-M	*105*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
d9-N-EtFOSE-M	*98.6*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
d5-NEtPFOSA	*70.7*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*
d3-NMePFOSA	*80.6*		*20 - 150*	*04/17/23 21:30*	*05/19/23 22:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**32**	**H**	7.7	1.9	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoropentanoic acid	**21**	**H**	3.8	0.96	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorohexanoic acid	**12**	**H**	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoroheptanoic acid	**4.7**	**H**	1.9	0.50	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorooctanoic acid	**13**	**H**	1.9	0.61	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorononanoic acid	**1.5**	**J H**	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorodecanoic acid	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoroundecanoic acid	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorododecanoic acid	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorotridecanoic acid	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorotetradecanoic acid	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorobutanesulfonic acid	**11**	**H**	1.9	0.29	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoropentanesulfonic acid	**1.6**	**J H I**	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorohexanesulfonic acid	**2.7**	**H**	1.9	0.55	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoroheptanesulfonic acid	ND	H	1.9	0.38	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorooctanesulfonic acid	**9.0**	**H**	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorononanesulfonic acid	ND	H	1.9	0.38	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorodecanesulfonic acid	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1

Client Sample ID: 828109-IDW-WW-040423
Date Collected: 04/04/23 10:15
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.9	0.86	ng/L		05/04/23 16:00	05/12/23 11:41	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	H	7.7	1.6	ng/L		05/04/23 16:00	05/12/23 11:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	H	7.7	2.4	ng/L		05/04/23 16:00	05/12/23 11:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	H	7.7	2.5	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluorooctanesulfonamide	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
NMeFOSA	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
N-ethylperfluoro-1-octanesulfonamide	ND	H	1.9	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
NMeFOSAA	ND	H	3.8	1.2	ng/L		05/04/23 16:00	05/12/23 11:41	1
NEtFOSAA	ND	H	1.9	0.67	ng/L		05/04/23 16:00	05/12/23 11:41	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	H	19	4.8	ng/L		05/04/23 16:00	05/12/23 11:41	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	H	19	4.8	ng/L		05/04/23 16:00	05/12/23 11:41	1
HFPO-DA	ND	H	7.7	1.9	ng/L		05/04/23 16:00	05/12/23 11:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	H	7.7	1.4	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoro-3-methoxypropanoic acid	ND	H	3.8	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoro(4-methoxybutanoic acid)	ND	H	3.8	0.96	ng/L		05/04/23 16:00	05/12/23 11:41	1
Perfluoro-3,6-dioxaheptanoic acid	ND	H	3.8	0.96	ng/L		05/04/23 16:00	05/12/23 11:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	H	7.7	0.96	ng/L		05/04/23 16:00	05/12/23 11:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	H	7.7	1.9	ng/L		05/04/23 16:00	05/12/23 11:41	1
PFEESA	ND	H	3.8	0.48	ng/L		05/04/23 16:00	05/12/23 11:41	1
3:3 FTCA	ND	H *+	9.6	1.4	ng/L		05/04/23 16:00	05/12/23 11:41	1
5:3 FTCA	ND	H	48	9.6	ng/L		05/04/23 16:00	05/12/23 11:41	1
7:3 FTCA	ND	H	48	9.6	ng/L		05/04/23 16:00	05/12/23 11:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*32.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C5 PFPeA	*76.9*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C5 PFHxA	*84.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C4 PFHpA	*75.9*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C8 PFOA	*99.0*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C9 PFNA	*102*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C6 PFDA	*78.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C7 PFUnA	*110*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C2-PFDoDA	*87.9*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C2 PFTeDA	*40.0*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C3 PFBS	*106*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C3 PFHxS	*95.2*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C8 PFOS	*92.5*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
13C8 FOSA	*93.7*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
d3-NMeFOSAA	*125*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
d5-NEtFOSAA	*102*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
M2-4:2 FTS	*126*		*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*
M2-6:2 FTS	*131*	*I*	*20 - 150*	*05/04/23 16:00*	*05/12/23 11:41*	*1*

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-IDW-WW-040423
Date Collected: 04/04/23 10:15
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-7
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	144		20 - 150	05/04/23 16:00	05/12/23 11:41	1
13C3 HFPO-DA	73.3		20 - 150	05/04/23 16:00	05/12/23 11:41	1
d7-N-MeFOSE-M	53.6		20 - 150	05/04/23 16:00	05/12/23 11:41	1
d9-N-EtFOSE-M	47.1		20 - 150	05/04/23 16:00	05/12/23 11:41	1
d5-NEtPFOSA	43.3		20 - 150	05/04/23 16:00	05/12/23 11:41	1
d3-NMePFOSA	54.4		20 - 150	05/04/23 16:00	05/12/23 11:41	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-3-8-18-040423
Date Collected: 04/04/23 13:50
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	**56**		7.3	1.8	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoropentanoic acid	**15**		3.7	0.92	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorohexanoic acid	**16**		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoroheptanoic acid	**14**		1.8	0.48	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorooctanoic acid	**41**		1.8	0.59	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorononanoic acid	**6.8**		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorodecanoic acid	**1.7**	**J**	1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorobutanesulfonic acid	**5.6**		1.8	0.28	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoropentanesulfonic acid	**2.1**		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorohexanesulfonic acid	**11**		1.8	0.52	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoroheptanesulfonic acid	**2.2**		1.8	0.37	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorooctanesulfonic acid	**110**		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorononanesulfonic acid	ND		1.8	0.37	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorodecanesulfonic acid	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.83	ng/L		04/17/23 21:30	05/01/23 18:51	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.6	ng/L		04/17/23 21:30	05/01/23 18:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3	ng/L		04/17/23 21:30	05/01/23 18:51	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluorooctanesulfonamide	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
NMeFOSA	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
NMeFOSAA	**1.2**	**J**	3.7	1.1	ng/L		04/17/23 21:30	05/01/23 18:51	1
NEtFOSAA	ND		1.8	0.64	ng/L		04/17/23 21:30	05/01/23 18:51	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		04/17/23 21:30	05/01/23 18:51	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6	ng/L		04/17/23 21:30	05/01/23 18:51	1
HFPO-DA	ND		7.3	1.8	ng/L		04/17/23 21:30	05/01/23 18:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoro-3-methoxypropanoic acid	ND		3.7	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoro(4-methoxybutanoic acid)	ND		3.7	0.92	ng/L		04/17/23 21:30	05/01/23 18:51	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.7	0.92	ng/L		04/17/23 21:30	05/01/23 18:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.92	ng/L		04/17/23 21:30	05/01/23 18:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8	ng/L		04/17/23 21:30	05/01/23 18:51	1
PFEESA	ND		3.7	0.46	ng/L		04/17/23 21:30	05/01/23 18:51	1
3:3 FTCA	ND		9.2	1.4	ng/L		04/17/23 21:30	05/01/23 18:51	1
5:3 FTCA	ND		46	9.2	ng/L		04/17/23 21:30	05/01/23 18:51	1
7:3 FTCA	ND		46	9.2	ng/L		04/17/23 21:30	05/01/23 18:51	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-MW-3-8-18-040423
Date Collected: 04/04/23 13:50
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-8
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	51.2		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C5 PFPeA	103		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C5 PFHxA	97.4		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C4 PFHpA	96.3		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C8 PFOA	90.9		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C9 PFNA	103		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C6 PFDA	100		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C7 PFUnA	104		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C2-PFDoDA	86.1		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C2 PFTeDA	62.1		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C3 PFBS	91.8		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C3 PFHxS	93.1		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C8 PFOS	90.2		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C8 FOSA	81.1		20 - 150	04/17/23 21:30	05/01/23 18:51	1
d3-NMeFOSAA	83.2		20 - 150	04/17/23 21:30	05/01/23 18:51	1
d5-NEtFOSAA	82.3		20 - 150	04/17/23 21:30	05/01/23 18:51	1
M2-4:2 FTS	100		20 - 150	04/17/23 21:30	05/01/23 18:51	1
M2-6:2 FTS	103		20 - 150	04/17/23 21:30	05/01/23 18:51	1
M2-8:2 FTS	118		20 - 150	04/17/23 21:30	05/01/23 18:51	1
13C3 HFPO-DA	104		20 - 150	04/17/23 21:30	05/01/23 18:51	1
d7-N-MeFOSE-M	72.2		20 - 150	04/17/23 21:30	05/01/23 18:51	1
d9-N-EtFOSE-M	65.3		20 - 150	04/17/23 21:30	05/01/23 18:51	1
d5-NEtPFOSA	58.6		20 - 150	04/17/23 21:30	05/01/23 18:51	1
d3-NMePFOSA	64.4		20 - 150	04/17/23 21:30	05/01/23 18:51	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-EB-02-040423
Date Collected: 04/04/23 13:15
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		7.0	1.7	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoropentanoic acid	ND		3.5	0.87	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorohexanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoroheptanoic acid	ND		1.7	0.45	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorooctanoic acid	ND		1.7	0.56	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorononanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorodecanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoroundecanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorododecanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorotridecanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorotetradecanoic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorobutanesulfonic acid	ND		1.7	0.26	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoropentanesulfonic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorohexanesulfonic acid	ND		1.7	0.50	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoroheptanesulfonic acid	ND		1.7	0.35	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorooctanesulfonic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorononanesulfonic acid	ND		1.7	0.35	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorodecanesulfonic acid	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.78	ng/L		04/17/23 21:30	05/01/23 18:34	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.0	1.5	ng/L		04/17/23 21:30	05/01/23 18:34	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.0	2.2	ng/L		04/17/23 21:30	05/01/23 18:34	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.0	2.3	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluorooctanesulfonamide	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
NMeFOSA	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
N-ethylperfluoro-1-octanesulfonamide	ND		1.7	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
NMeFOSAA	ND		3.5	1.0	ng/L		04/17/23 21:30	05/01/23 18:34	1
NEtFOSAA	ND		1.7	0.61	ng/L		04/17/23 21:30	05/01/23 18:34	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4	ng/L		04/17/23 21:30	05/01/23 18:34	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4	ng/L		04/17/23 21:30	05/01/23 18:34	1
HFPO-DA	ND		7.0	1.7	ng/L		04/17/23 21:30	05/01/23 18:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.3	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoro-3-methoxypropanoic acid	ND		3.5	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoro(4-methoxybutanoic acid)	ND		3.5	0.87	ng/L		04/17/23 21:30	05/01/23 18:34	1
Perfluoro-3,6-dioxaheptanoic acid	ND		3.5	0.87	ng/L		04/17/23 21:30	05/01/23 18:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	0.87	ng/L		04/17/23 21:30	05/01/23 18:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.7	ng/L		04/17/23 21:30	05/01/23 18:34	1
PFEESA	ND		3.5	0.44	ng/L		04/17/23 21:30	05/01/23 18:34	1
3:3 FTCA	ND		8.7	1.3	ng/L		04/17/23 21:30	05/01/23 18:34	1
5:3 FTCA	ND		44	8.7	ng/L		04/17/23 21:30	05/01/23 18:34	1
7:3 FTCA	ND		44	8.7	ng/L		04/17/23 21:30	05/01/23 18:34	1

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Client Sample ID: 828109-EB-02-040423
Date Collected: 04/04/23 13:15
Date Received: 04/05/23 09:30

Lab Sample ID: 480-207597-10
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	87.7		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C5 PFPeA	90.3		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C5 PFHxA	88.3		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C4 PFHpA	87.5		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C8 PFOA	83.3		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C9 PFNA	85.5		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C6 PFDA	89.9		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C7 PFUnA	98.9		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C2-PFDoDA	104		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C2 PFTeDA	65.7		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C3 PFBS	80.8		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C3 PFHxS	85.5		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C8 PFOS	81.1		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C8 FOSA	81.1		20 - 150	04/17/23 21:30	05/01/23 18:34	1
d3-NMeFOSAA	88.5		20 - 150	04/17/23 21:30	05/01/23 18:34	1
d5-NEtFOSAA	72.5		20 - 150	04/17/23 21:30	05/01/23 18:34	1
M2-4:2 FTS	79.0		20 - 150	04/17/23 21:30	05/01/23 18:34	1
M2-6:2 FTS	87.4		20 - 150	04/17/23 21:30	05/01/23 18:34	1
M2-8:2 FTS	82.3		20 - 150	04/17/23 21:30	05/01/23 18:34	1
13C3 HFPO-DA	96.4		20 - 150	04/17/23 21:30	05/01/23 18:34	1
d7-N-MeFOSE-M	72.5		20 - 150	04/17/23 21:30	05/01/23 18:34	1
d9-N-EtFOSE-M	71.2		20 - 150	04/17/23 21:30	05/01/23 18:34	1
d5-NEtPFOSA	58.9		20 - 150	04/17/23 21:30	05/01/23 18:34	1
d3-NMePFOSA	58.6		20 - 150	04/17/23 21:30	05/01/23 18:34	1

Isotope Dilution Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-207597-1	828109-MW-9-9-19-040323	78.9	93.3	94.1	95.1	81.3	81.7	73.3	65.0
480-207597-1 MS	828109-MW-9-9-19-040323	80.8	86.6	92.6 I	79.5	64.3	77.5	76.4	71.9
480-207597-1 MSD	828109-MW-9-9-19-040323	83.5	110	80.7	94.5	81.5	80.5	71.1	67.0
480-207597-2	828109-MW-10-3-8-040323	70.7	101	80.7	80.0	73.7	85.3	89.4	74.8
480-207597-3	828109-MW-11-3-13-040323	72.6	95.0	77.6	76.6	71.1	76.8	78.1	64.4
480-207597-4	828109-MW-5-8.5-18.5-040323	94.5	92.7	79.3	84.4	86.7	104	81.4	68.3
480-207597-5	828109-MW-905-8.5-18.5-040323	84.2	113	81.2	88.1	80.7	87.6	69.8	61.5
480-207597-6	828109-MW-EB-01-040323	83.9	77.6	76.1	93.7	66.5	88.8	86.5	82.1
480-207597-7	828109-IDW-WW-040423	37.6	101	95.6	96.8	81.6	98.3	96.7	59.0
480-207597-7 - RE	828109-IDW-WW-040423	32.8	76.9	84.8	75.9	99.0	102	78.8	110
480-207597-7 - RA	828109-IDW-WW-040423	38.0	89.1	74.9	83.3	91.0	92.0	81.2	115
480-207597-7 - DL	828109-IDW-WW-040423	38.3	81.7	82.8 I	83.7	66.1	85.2	77.0	94.9
480-207597-8	828109-MW-3-8-18-040423	51.2	103	97.4	96.3	90.9	103	100	104
480-207597-10	828109-EB-02-040423	87.7	90.3	88.3	87.5	83.3	85.5	89.9	98.9
LCS 410-365257/2-A	Lab Control Sample	98.8	102	99.2	98.3	97.1	105	104	99.9
LCS 410-369534/2-A	Lab Control Sample	83.7	77.6	85.4 I	88.2	73.0	88.4	87.0	85.5
LCS 410-372291/2-A	Lab Control Sample	88.9	82.5	76.6	85.3	85.0	95.5	95.0	95.0
LLCS 410-365257/3-A	Lab Control Sample	101	98.5	99.4	97.9	98.3	92.4	104	91.6
LLCS 410-369534/3-A	Lab Control Sample	86.6	91.2	85.2 I	84.4	76.4	96.3	85.4	76.7
LLCS 410-372291/3-A	Lab Control Sample	91.5	80.5	96.5	80.6	91.7	93.0	81.4	83.7
MB 410-365257/1-A	Method Blank	98.8	101	98.7	99.6	98.6	97.6	96.1	93.4
MB 410-369534/1-A	Method Blank	76.2	74.6	87.3	82.5	73.3	79.5	73.8	72.0
MB 410-372291/1-A	Method Blank	87.8	73.4	80.4	72.9	82.0	93.4	85.0	90.9

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoDA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
480-207597-1	828109-MW-9-9-19-040323	55.9	51.3	88.4	82.5	74.0	74.9	56.4	58.0
480-207597-1 MS	828109-MW-9-9-19-040323	64.6	65.7	82.0	76.7	75.8	77.9	67.1	62.5
480-207597-1 MSD	828109-MW-9-9-19-040323	59.1	57.6	83.6	76.7	77.7	75.2	61.2	57.7
480-207597-2	828109-MW-10-3-8-040323	67.6	63.2	96.4	83.4	86.3	82.7	69.2	68.8
480-207597-3	828109-MW-11-3-13-040323	59.6	55.7	86.8	81.4	71.9	69.5	55.7	59.8
480-207597-4	828109-MW-5-8.5-18.5-040323	58.6	52.5	102	92.6	87.7	82.1	58.3	58.5
480-207597-5	828109-MW-905-8.5-18.5-040323	51.9	47.1	95.8	82.4	81.6	73.0	57.8	54.5
480-207597-6	828109-MW-EB-01-040323	75.5	68.9	88.4	82.5	78.6	72.3	57.5	66.0
480-207597-7	828109-IDW-WW-040423	69.2	162 *5+	78.6	89.3	97.0	179 *5+	60.1	166 *5+
480-207597-7 - RE	828109-IDW-WW-040423	87.9	40.0	106	95.2	92.5	93.7	125	102
480-207597-7 - RA	828109-IDW-WW-040423	116	68.0	98.6	88.5	99.4	132	171 *5+	217 *5+
480-207597-7 - DL	828109-IDW-WW-040423	75.9	56.4	67.9	66.7	85.2	97.2	132	99.0
480-207597-8	828109-MW-3-8-18-040423	86.1	62.1	91.8	93.1	90.2	81.1	83.2	82.3
480-207597-10	828109-EB-02-040423	104	65.7	80.8	85.5	81.1	81.1	88.5	72.5
LCS 410-365257/2-A	Lab Control Sample	95.4	88.5	93.8	99.8	95.4	99.0	79.4	88.2
LCS 410-369534/2-A	Lab Control Sample	73.9	73.6	80.4	85.0	82.4	80.5	67.9	72.1
LCS 410-372291/2-A	Lab Control Sample	91.5	101	93.2	93.5	95.7	97.3	92.5	95.4
LLCS 410-365257/3-A	Lab Control Sample	89.1	79.4	82.5	89.3	96.5	97.7	86.4	86.1
LLCS 410-369534/3-A	Lab Control Sample	77.7	70.0	89.9	87.4	84.5	76.5	63.0	74.7
LLCS 410-372291/3-A	Lab Control Sample	78.9	86.6	100	98.2	93.2	85.9	88.4	94.0
MB 410-365257/1-A	Method Blank	89.2	80.2	89.7	94.0	96.5	97.5	85.0	89.3
MB 410-369534/1-A	Method Blank	66.0	65.8	79.0	76.2	78.8	70.3	58.0	64.0

Isotope Dilution Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoDA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
MB 410-372291/1-A	Method Blank	91.9	95.8	86.8	92.1	89.4	88.4	84.5	88.7

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
480-207597-1	828109-MW-9-9-19-040323	72.3	98.8	51.4	91.8	55.0	53.2	50.2	54.2
480-207597-1 MS	828109-MW-9-9-19-040323	78.6	108	68.6	85.5	63.6	62.1	56.3	60.4
480-207597-1 MSD	828109-MW-9-9-19-040323	72.8	88.1	58.6	97.1	60.3	60.3	58.4	57.9
480-207597-2	828109-MW-10-3-8-040323	102	114	81.3	77.3	68.6	66.6	48.0	53.9
480-207597-3	828109-MW-11-3-13-040323	80.7	80.1	58.0	74.8	63.0	59.2	58.1	61.7
480-207597-4	828109-MW-5-8.5-18.5-040323	93.0	93.6	60.7	85.1	53.6	52.4	50.2	54.2
480-207597-5	828109-MW-905-8.5-18.5-040323	88.2	107	58.0	97.5	50.2	50.0	48.2	54.1
480-207597-6	828109-MW-EB-01-040323	75.7	101	62.3	84.2	66.3	67.9	58.1	56.6
480-207597-7	828109-IDW-WW-040423	91.6	174 *5+	128	102	123	113	114	127
480-207597-7 - RE	828109-IDW-WW-040423	126	131 I	144	73.3	53.6	47.1	43.3	54.4
480-207597-7 - RA	828109-IDW-WW-040423	154 *5+	148	209 *5+	64.7	105	98.6	70.7	80.6
480-207597-7 - DL	828109-IDW-WW-040423	90.0 I	69.5	62.4	69.3	77.0	75.5	51.1	63.1
480-207597-8	828109-MW-3-8-18-040423	100	103	118	104	72.2	65.3	58.6	64.4
480-207597-10	828109-EB-02-040423	79.0	87.4	82.3	96.4	72.5	71.2	58.9	58.6
LCS 410-365257/2-A	Lab Control Sample	96.7	100	104	101	83.8	84.1	71.6	72.5
LCS 410-369534/2-A	Lab Control Sample	76.6	83.7	64.1	81.3	71.6	73.6	50.5	53.5
LCS 410-372291/2-A	Lab Control Sample	82.8	78.4	112	87.8	90.6	90.9	80.6	78.2
LLCS 410-365257/3-A	Lab Control Sample	84.2	93.1	89.7	99.4	82.1	83.8	66.8	68.3
LLCS 410-369534/3-A	Lab Control Sample	79.0	83.8	65.0	86.8	71.6	71.2	53.3	54.6
LLCS 410-372291/3-A	Lab Control Sample	90.2	102	90.7	89.5	82.0	82.4	64.9	66.6
MB 410-365257/1-A	Method Blank	92.1	98.6	96.7	102	89.3	84.5	71.1	70.6
MB 410-369534/1-A	Method Blank	85.2 I	85.0	49.4	89.1	65.5	65.5	47.0	48.3
MB 410-372291/1-A	Method Blank	75.3	102	87.0	81.1	81.2	80.8	69.3	69.7

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

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

Lab Sample ID: MB 410-365257/1-A
Matrix: Water
Analysis Batch: 370640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 365257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		8.0	2.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorooctanoic acid	ND		2.0	0.64	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorobutanesulfonic acid	ND		2.0	0.30	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		04/17/23 21:30	05/02/23 00:53	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		04/17/23 21:30	05/02/23 00:53	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		04/17/23 21:30	05/02/23 00:53	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
NMeFOSA	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
NMeFOSAA	ND		4.0	1.2	ng/L		04/17/23 21:30	05/02/23 00:53	1
NEtFOSAA	ND		2.0	0.70	ng/L		04/17/23 21:30	05/02/23 00:53	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
HFPO-DA	ND		8.0	2.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		04/17/23 21:30	05/02/23 00:53	1
PFEESA	ND		4.0	0.50	ng/L		04/17/23 21:30	05/02/23 00:53	1
3:3 FTCA	ND		10	1.5	ng/L		04/17/23 21:30	05/02/23 00:53	1
5:3 FTCA	ND		50	10	ng/L		04/17/23 21:30	05/02/23 00:53	1
7:3 FTCA	ND		50	10	ng/L		04/17/23 21:30	05/02/23 00:53	1

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

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98.8		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C5 PFPeA	101		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C5 PFHxA	98.7		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C4 PFHpA	99.6		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C8 PFOA	98.6		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C9 PFNA	97.6		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C6 PFDA	96.1		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C7 PFUnA	93.4		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C2-PFDoDA	89.2		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C2 PFTeDA	80.2		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C3 PFBS	89.7		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C3 PFHxS	94.0		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C8 PFOS	96.5		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C8 FOSA	97.5		20 - 150	04/17/23 21:30	05/02/23 00:53	1
d3-NMeFOSAA	85.0		20 - 150	04/17/23 21:30	05/02/23 00:53	1
d5-NEtFOSAA	89.3		20 - 150	04/17/23 21:30	05/02/23 00:53	1
M2-4:2 FTS	92.1		20 - 150	04/17/23 21:30	05/02/23 00:53	1
M2-6:2 FTS	98.6		20 - 150	04/17/23 21:30	05/02/23 00:53	1
M2-8:2 FTS	96.7		20 - 150	04/17/23 21:30	05/02/23 00:53	1
13C3 HFPO-DA	102		20 - 150	04/17/23 21:30	05/02/23 00:53	1
d7-N-MeFOSE-M	89.3		20 - 150	04/17/23 21:30	05/02/23 00:53	1
d9-N-EtFOSE-M	84.5		20 - 150	04/17/23 21:30	05/02/23 00:53	1
d5-NEtPFOSA	71.1		20 - 150	04/17/23 21:30	05/02/23 00:53	1
d3-NMePFOSA	70.6		20 - 150	04/17/23 21:30	05/02/23 00:53	1

Lab Sample ID: LCS 410-365257/2-A
Matrix: Water
Analysis Batch: 370640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	100	101		ng/L		100	40 - 150
Perfluoropentanoic acid	50.1	51.6		ng/L		103	40 - 150
Perfluorohexanoic acid	25.0	24.7		ng/L		99	40 - 150
Perfluoroheptanoic acid	25.0	25.2		ng/L		100	40 - 150
Perfluorooctanoic acid	25.0	25.5		ng/L		102	40 - 150
Perfluorononanoic acid	25.0	25.1		ng/L		100	40 - 150
Perfluorodecanoic acid	25.0	24.9		ng/L		99	40 - 150
Perfluoroundecanoic acid	25.0	25.6		ng/L		102	40 - 150
Perfluorododecanoic acid	25.0	25.2		ng/L		101	40 - 150
Perfluorotridecanoic acid	25.0	26.4		ng/L		105	40 - 150
Perfluorotetradecanoic acid	25.0	25.8		ng/L		103	40 - 150
Perfluorobutanesulfonic acid	22.2	23.2		ng/L		105	40 - 150
Perfluoropentanesulfonic acid	23.6	22.6		ng/L		96	40 - 150
Perfluorohexanesulfonic acid	22.9	24.6		ng/L		108	40 - 150
Perfluoroheptanesulfonic acid	23.9	23.9		ng/L		100	40 - 150
Perfluorooctanesulfonic acid	23.2	23.7		ng/L		102	40 - 150
Perfluorononanesulfonic acid	24.1	25.9		ng/L		108	40 - 150
Perfluorodecanesulfonic acid	24.2	23.2		ng/L		96	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	24.3	22.9		ng/L		94	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	97.6		ng/L		104	40 - 150

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

Lab Sample ID: LCS 410-365257/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 370640
Prep Batch: 365257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	97.5		ng/L		102	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	91.0		ng/L		95	40 - 150
Perfluorooctanesulfonamide	25.0	24.1		ng/L		96	40 - 150
NMeFOSA	25.0	28.5		ng/L		114	40 - 150
N-ethylperfluoro-1-octanesulfonamide	25.0	29.3		ng/L		117	40 - 150
NMeFOSAA	25.0	26.3		ng/L		105	40 - 150
NEtFOSAA	25.0	26.6		ng/L		106	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	274		ng/L		109	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	267		ng/L		107	40 - 150
HFPO-DA	100	113		ng/L		113	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	113		ng/L		120	40 - 150
Perfluoro-3-methoxypropanoic acid	50.1	53.1		ng/L		106	40 - 150
Perfluoro(4-methoxybutanoic acid)	50.1	52.0		ng/L		104	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	50.1	54.3		ng/L		108	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	103		ng/L		110	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	107		ng/L		113	40 - 150
PFEESA	44.6	45.9		ng/L		103	40 - 150
3:3 FTCA	100	129		ng/L		129	40 - 150
5:3 FTCA	501	652		ng/L		130	40 - 150
7:3 FTCA	501	656		ng/L		131	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*98.8*		*20 - 150*
13C5 PFPeA	*102*		*20 - 150*
13C5 PFHxA	*99.2*		*20 - 150*
13C4 PFHpA	*98.3*		*20 - 150*
13C8 PFOA	*97.1*		*20 - 150*
13C9 PFNA	*105*		*20 - 150*
13C6 PFDA	*104*		*20 - 150*
13C7 PFUnA	*99.9*		*20 - 150*
13C2-PFDoDA	*95.4*		*20 - 150*
13C2 PFTeDA	*88.5*		*20 - 150*
13C3 PFBS	*93.8*		*20 - 150*
13C3 PFHxS	*99.8*		*20 - 150*
13C8 PFOS	*95.4*		*20 - 150*
13C8 FOSA	*99.0*		*20 - 150*
d3-NMeFOSAA	*79.4*		*20 - 150*
d5-NEtFOSAA	*88.2*		*20 - 150*
M2-4:2 FTS	*96.7*		*20 - 150*

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

Lab Sample ID: LCS 410-365257/2-A
Matrix: Water
Analysis Batch: 370640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365257

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*100*		*20 - 150*
M2-8:2 FTS	*104*		*20 - 150*
13C3 HFPO-DA	*101*		*20 - 150*
d7-N-MeFOSE-M	*83.8*		*20 - 150*
d9-N-EtFOSE-M	*84.1*		*20 - 150*
d5-NEtPFOSA	*71.6*		*20 - 150*
d3-NMePFOSA	*72.5*		*20 - 150*

Lab Sample ID: LLCS 410-365257/3-A
Matrix: Water
Analysis Batch: 370640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365257

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	16.0	16.1		ng/L		101	40 - 150
Perfluoropentanoic acid	8.00	8.03		ng/L		100	40 - 150
Perfluorohexanoic acid	4.00	3.91		ng/L		98	40 - 150
Perfluoroheptanoic acid	4.00	3.80		ng/L		95	40 - 150
Perfluorooctanoic acid	4.00	3.81		ng/L		95	40 - 150
Perfluorononanoic acid	4.00	4.11		ng/L		103	40 - 150
Perfluorodecanoic acid	4.00	3.82		ng/L		96	40 - 150
Perfluoroundecanoic acid	4.00	4.02		ng/L		100	40 - 150
Perfluorododecanoic acid	4.00	4.29		ng/L		107	40 - 150
Perfluorotridecanoic acid	4.00	3.96		ng/L		99	40 - 150
Perfluorotetradecanoic acid	4.00	4.10		ng/L		102	40 - 150
Perfluorobutanesulfonic acid	3.55	3.56		ng/L		100	40 - 150
Perfluoropentanesulfonic acid	3.76	3.39		ng/L		90	40 - 150
Perfluorohexanesulfonic acid	3.66	3.76		ng/L		103	40 - 150
Perfluoroheptanesulfonic acid	3.81	3.71		ng/L		97	40 - 150
Perfluorooctanesulfonic acid	3.71	3.55		ng/L		96	40 - 150
Perfluorononanesulfonic acid	3.85	4.05		ng/L		105	40 - 150
Perfluorodecanesulfonic acid	3.86	3.47		ng/L		90	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.20		ng/L		82	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	15.0		ng/L		100	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	14.8		ng/L		98	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	15.2		ng/L		99	40 - 150
Perfluorooctanesulfonamide	4.00	3.64		ng/L		91	40 - 150
NMeFOSA	4.00	4.66		ng/L		116	40 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	5.53		ng/L		138	40 - 150
NMeFOSAA	4.00	4.23		ng/L		106	40 - 150
NEtFOSAA	4.00	4.04		ng/L		101	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	47.7		ng/L		119	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	40.5		ng/L		101	40 - 150

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

Lab Sample ID: LLCS 410-365257/3-A
Matrix: Water
Analysis Batch: 370640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 365257

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	16.0	16.2		ng/L		101	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	17.3		ng/L		115	40 - 150
Perfluoro-3-methoxypropanoic acid	8.00	7.80		ng/L		97	40 - 150
Perfluoro(4-methoxybutanoic acid)	8.00	7.75		ng/L		97	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	8.00	7.80		ng/L		98	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	15.5		ng/L		104	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	14.7		ng/L		97	40 - 150
PFEESA	7.12	6.65		ng/L		93	40 - 150
3:3 FTCA	16.0	19.5		ng/L		122	40 - 150
5:3 FTCA	80.0	94.0		ng/L		117	40 - 150
7:3 FTCA	80.0	94.8		ng/L		118	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*101*		*20 - 150*
13C5 PFPeA	*98.5*		*20 - 150*
13C5 PFHxA	*99.4*		*20 - 150*
13C4 PFHpA	*97.9*		*20 - 150*
13C8 PFOA	*98.3*		*20 - 150*
13C9 PFNA	*92.4*		*20 - 150*
13C6 PFDA	*104*		*20 - 150*
13C7 PFUnA	*91.6*		*20 - 150*
13C2-PFDoDA	*89.1*		*20 - 150*
13C2 PFTeDA	*79.4*		*20 - 150*
13C3 PFBS	*82.5*		*20 - 150*
13C3 PFHxS	*89.3*		*20 - 150*
13C8 PFOS	*96.5*		*20 - 150*
13C8 FOSA	*97.7*		*20 - 150*
d3-NMeFOSAA	*86.4*		*20 - 150*
d5-NEtFOSAA	*86.1*		*20 - 150*
M2-4:2 FTS	*84.2*		*20 - 150*
M2-6:2 FTS	*93.1*		*20 - 150*
M2-8:2 FTS	*89.7*		*20 - 150*
13C3 HFPO-DA	*99.4*		*20 - 150*
d7-N-MeFOSE-M	*82.1*		*20 - 150*
d9-N-EtFOSE-M	*83.8*		*20 - 150*
d5-NEtPFOSA	*66.8*		*20 - 150*
d3-NMePFOSA	*68.3*		*20 - 150*

Lab Sample ID: MB 410-369534/1-A
Matrix: Water
Analysis Batch: 373051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		8.0	2.0	ng/L		04/27/23 17:55	05/08/23 00:58	1

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

Lab Sample ID: MB 410-369534/1-A
Matrix: Water
Analysis Batch: 373051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorooctanoic acid	ND		2.0	0.64	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorobutanesulfonic acid	ND		2.0	0.30	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		04/27/23 17:55	05/08/23 00:58	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		04/27/23 17:55	05/08/23 00:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		04/27/23 17:55	05/08/23 00:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
NMeFOSA	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
NMeFOSAA	ND		4.0	1.2	ng/L		04/27/23 17:55	05/08/23 00:58	1
NEtFOSAA	ND		2.0	0.70	ng/L		04/27/23 17:55	05/08/23 00:58	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
HFPO-DA	ND		8.0	2.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		04/27/23 17:55	05/08/23 00:58	1
PFEESA	ND		4.0	0.50	ng/L		04/27/23 17:55	05/08/23 00:58	1
3:3 FTCA	ND		10	1.5	ng/L		04/27/23 17:55	05/08/23 00:58	1
5:3 FTCA	ND		50	10	ng/L		04/27/23 17:55	05/08/23 00:58	1
7:3 FTCA	ND		50	10	ng/L		04/27/23 17:55	05/08/23 00:58	1

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

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	76.2		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C5 PFPeA	74.6		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C5 PFHxA	87.3		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C4 PFHpA	82.5		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C8 PFOA	73.3		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C9 PFNA	79.5		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C6 PFDA	73.8		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C7 PFUnA	72.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C2-PFDoDA	66.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C2 PFTeDA	65.8		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C3 PFBS	79.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C3 PFHxS	76.2		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C8 PFOS	78.8		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C8 FOSA	70.3		20 - 150	04/27/23 17:55	05/08/23 00:58	1
d3-NMeFOSAA	58.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
d5-NEtFOSAA	64.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
M2-4:2 FTS	85.2	I	20 - 150	04/27/23 17:55	05/08/23 00:58	1
M2-6:2 FTS	85.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
M2-8:2 FTS	49.4		20 - 150	04/27/23 17:55	05/08/23 00:58	1
13C3 HFPO-DA	89.1		20 - 150	04/27/23 17:55	05/08/23 00:58	1
d7-N-MeFOSE-M	65.5		20 - 150	04/27/23 17:55	05/08/23 00:58	1
d9-N-EtFOSE-M	65.5		20 - 150	04/27/23 17:55	05/08/23 00:58	1
d5-NEtPFOSA	47.0		20 - 150	04/27/23 17:55	05/08/23 00:58	1
d3-NMePFOSA	48.3		20 - 150	04/27/23 17:55	05/08/23 00:58	1

Lab Sample ID: LCS 410-369534/2-A
Matrix: Water
Analysis Batch: 373051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	100	109		ng/L		109	40 - 150
Perfluoropentanoic acid	50.1	58.1		ng/L		116	40 - 150
Perfluorohexanoic acid	25.0	25.3		ng/L		101	40 - 150
Perfluoroheptanoic acid	25.0	24.0		ng/L		96	40 - 150
Perfluorooctanoic acid	25.0	26.0		ng/L		104	40 - 150
Perfluorononanoic acid	25.0	25.2		ng/L		101	40 - 150
Perfluorodecanoic acid	25.0	26.8		ng/L		107	40 - 150
Perfluoroundecanoic acid	25.0	26.8		ng/L		107	40 - 150
Perfluorododecanoic acid	25.0	28.4		ng/L		113	40 - 150
Perfluorotridecanoic acid	25.0	26.9		ng/L		107	40 - 150
Perfluorotetradecanoic acid	25.0	29.5		ng/L		118	40 - 150
Perfluorobutanesulfonic acid	22.2	26.0		ng/L		117	40 - 150
Perfluoropentanesulfonic acid	23.6	24.4		ng/L		104	40 - 150
Perfluorohexanesulfonic acid	22.9	23.2		ng/L		102	40 - 150
Perfluoroheptanesulfonic acid	23.9	25.9		ng/L		108	40 - 150
Perfluorooctanesulfonic acid	23.2	24.8		ng/L		107	40 - 150
Perfluorononanesulfonic acid	24.1	24.5		ng/L		102	40 - 150
Perfluorodecanesulfonic acid	24.2	26.4		ng/L		109	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	24.3	25.0		ng/L		103	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	98.2		ng/L		105	40 - 150

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

Lab Sample ID: LCS 410-369534/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 373051
Prep Batch: 369534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	98.0		ng/L		103	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	118		ng/L		123	40 - 150
Perfluorooctanesulfonamide	25.0	25.1		ng/L		100	40 - 150
NMeFOSA	25.0	32.7		ng/L		130	40 - 150
N-ethylperfluoro-1-octanesulfonamide	25.0	34.6		ng/L		138	40 - 150
NMeFOSAA	25.0	29.3		ng/L		117	40 - 150
NEtFOSAA	25.0	25.9		ng/L		103	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	291		ng/L		116	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	281		ng/L		112	40 - 150
HFPO-DA	100	107		ng/L		107	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	106		ng/L		112	40 - 150
Perfluoro-3-methoxypropanoic acid	50.1	56.4		ng/L		113	40 - 150
Perfluoro(4-methoxybutanoic acid)	50.1	54.5		ng/L		109	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	50.1	50.4		ng/L		101	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	106		ng/L		114	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	100		ng/L		106	40 - 150
PFEESA	44.6	47.1		ng/L		106	40 - 150
3:3 FTCA	100	132		ng/L		132	40 - 150
5:3 FTCA	501	664		ng/L		133	40 - 150
7:3 FTCA	501	556		ng/L		111	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*83.7*		*20 - 150*
13C5 PFPeA	*77.6*		*20 - 150*
13C5 PFHxA	*85.4*	*I*	*20 - 150*
13C4 PFHpA	*88.2*		*20 - 150*
13C8 PFOA	*73.0*		*20 - 150*
13C9 PFNA	*88.4*		*20 - 150*
13C6 PFDA	*87.0*		*20 - 150*
13C7 PFUnA	*85.5*		*20 - 150*
13C2-PFDoDA	*73.9*		*20 - 150*
13C2 PFTeDA	*73.6*		*20 - 150*
13C3 PFBS	*80.4*		*20 - 150*
13C3 PFHxS	*85.0*		*20 - 150*
13C8 PFOS	*82.4*		*20 - 150*
13C8 FOSA	*80.5*		*20 - 150*
d3-NMeFOSAA	*67.9*		*20 - 150*
d5-NEtFOSAA	*72.1*		*20 - 150*
M2-4:2 FTS	*76.6*		*20 - 150*

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

Lab Sample ID: LCS 410-369534/2-A
Matrix: Water
Analysis Batch: 373051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369534

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*83.7*		*20 - 150*
M2-8:2 FTS	*64.1*		*20 - 150*
13C3 HFPO-DA	*81.3*		*20 - 150*
d7-N-MeFOSE-M	*71.6*		*20 - 150*
d9-N-EtFOSE-M	*73.6*		*20 - 150*
d5-NEtPFOSA	*50.5*		*20 - 150*
d3-NMePFOSA	*53.5*		*20 - 150*

Lab Sample ID: LLCS 410-369534/3-A
Matrix: Water
Analysis Batch: 373051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	16.0	14.7		ng/L		92	40 - 150
Perfluoropentanoic acid	8.00	7.65		ng/L		96	40 - 150
Perfluorohexanoic acid	4.00	3.86		ng/L		97	40 - 150
Perfluoroheptanoic acid	4.00	3.82		ng/L		95	40 - 150
Perfluorooctanoic acid	4.00	3.84		ng/L		96	40 - 150
Perfluorononanoic acid	4.00	3.29		ng/L		82	40 - 150
Perfluorodecanoic acid	4.00	4.03		ng/L		101	40 - 150
Perfluoroundecanoic acid	4.00	4.65		ng/L		116	40 - 150
Perfluorododecanoic acid	4.00	4.15		ng/L		104	40 - 150
Perfluorotridecanoic acid	4.00	3.89		ng/L		97	40 - 150
Perfluorotetradecanoic acid	4.00	4.47		ng/L		112	40 - 150
Perfluorobutanesulfonic acid	3.55	3.52		ng/L		99	40 - 150
Perfluoropentanesulfonic acid	3.76	3.34		ng/L		89	40 - 150
Perfluorohexanesulfonic acid	3.66	3.51		ng/L		96	40 - 150
Perfluoroheptanesulfonic acid	3.81	3.93		ng/L		103	40 - 150
Perfluorooctanesulfonic acid	3.71	3.74		ng/L		101	40 - 150
Perfluorononanesulfonic acid	3.85	3.63		ng/L		94	40 - 150
Perfluorodecanesulfonic acid	3.86	3.73		ng/L		97	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.42		ng/L		88	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	18.3		ng/L		122	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	15.9		ng/L		105	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	14.6		ng/L		95	40 - 150
Perfluorooctanesulfonamide	4.00	3.86		ng/L		97	40 - 150
NMeFOSA	4.00	5.12		ng/L		128	40 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	5.08		ng/L		127	40 - 150
NMeFOSAA	4.00	4.57		ng/L		114	40 - 150
NEtFOSAA	4.00	4.37	I	ng/L		109	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	48.7		ng/L		122	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	41.9		ng/L		105	40 - 150

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

Lab Sample ID: LLCS 410-369534/3-A
Matrix: Water
Analysis Batch: 373051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
HFPO-DA	16.0	16.3		ng/L		102	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	16.8		ng/L		111	40 - 150
Perfluoro-3-methoxypropanoic acid	8.00	8.11		ng/L		101	40 - 150
Perfluoro(4-methoxybutanoic acid)	8.00	7.75		ng/L		97	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	8.00	8.15		ng/L		102	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	16.4		ng/L		110	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	15.5		ng/L		102	40 - 150
PFEESA	7.12	7.38		ng/L		104	40 - 150
3:3 FTCA	16.0	20.8		ng/L		130	40 - 150
5:3 FTCA	80.0	109		ng/L		137	40 - 150
7:3 FTCA	80.0	87.9		ng/L		110	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*86.6*		*20 - 150*
13C5 PFPeA	*91.2*		*20 - 150*
13C5 PFHxA	*85.2*	*I*	*20 - 150*
13C4 PFHpA	*84.4*		*20 - 150*
13C8 PFOA	*76.4*		*20 - 150*
13C9 PFNA	*96.3*		*20 - 150*
13C6 PFDA	*85.4*		*20 - 150*
13C7 PFUnA	*76.7*		*20 - 150*
13C2-PFDoDA	*77.7*		*20 - 150*
13C2 PFTeDA	*70.0*		*20 - 150*
13C3 PFBS	*89.9*		*20 - 150*
13C3 PFHxS	*87.4*		*20 - 150*
13C8 PFOS	*84.5*		*20 - 150*
13C8 FOSA	*76.5*		*20 - 150*
d3-NMeFOSAA	*63.0*		*20 - 150*
d5-NEtFOSAA	*74.7*		*20 - 150*
M2-4:2 FTS	*79.0*		*20 - 150*
M2-6:2 FTS	*83.8*		*20 - 150*
M2-8:2 FTS	*65.0*		*20 - 150*
13C3 HFPO-DA	*86.8*		*20 - 150*
d7-N-MeFOSE-M	*71.6*		*20 - 150*
d9-N-EtFOSE-M	*71.2*		*20 - 150*
d5-NEtPFOSA	*53.3*		*20 - 150*
d3-NMePFOSA	*54.6*		*20 - 150*

Lab Sample ID: 480-207597-1 MS
Matrix: Water
Analysis Batch: 373051

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	9.6		85.2	115		ng/L		124	40 - 150

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

Lab Sample ID: 480-207597-1 MS
Matrix: Water
Analysis Batch: 373051

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid	7.2	I	42.6	55.7		ng/L		114	40 - 150
Perfluorohexanoic acid	5.9		21.3	26.8		ng/L		98	40 - 150
Perfluoroheptanoic acid	1.7		21.3	25.8		ng/L		113	40 - 150
Perfluorooctanoic acid	4.6		21.3	24.9		ng/L		95	40 - 150
Perfluorononanoic acid	0.82	J	21.3	23.0		ng/L		104	40 - 150
Perfluorodecanoic acid	ND		21.3	25.5		ng/L		120	40 - 150
Perfluoroundecanoic acid	ND		21.3	24.4		ng/L		115	40 - 150
Perfluorododecanoic acid	ND		21.3	24.2		ng/L		113	40 - 150
Perfluorotridecanoic acid	ND		21.3	23.4		ng/L		110	40 - 150
Perfluorotetradecanoic acid	ND		21.3	23.4		ng/L		110	40 - 150
Perfluorobutanesulfonic acid	2.5		18.9	24.6		ng/L		117	40 - 150
Perfluoropentanesulfonic acid	ND		20.0	26.3		ng/L		131	40 - 150
Perfluorohexanesulfonic acid	1.1	J	19.5	24.3		ng/L		119	40 - 150
Perfluoroheptanesulfonic acid	ND		20.3	25.6		ng/L		126	40 - 150
Perfluorooctanesulfonic acid	5.3		19.8	29.3		ng/L		121	40 - 150
Perfluorononanesulfonic acid	ND		20.5	22.6		ng/L		110	40 - 150
Perfluorodecanesulfonic acid	ND		20.5	21.6		ng/L		105	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	ND		20.7	19.8		ng/L		96	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		79.8	85.7		ng/L		107	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		80.9	72.0		ng/L		89	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		81.8	98.9		ng/L		121	40 - 150
Perfluorooctanesulfonamide	ND		21.3	22.9		ng/L		108	40 - 150
NMeFOSA	ND		21.3	23.7		ng/L		111	40 - 150
N-ethylperfluoro-1-octanesulfonamide	ND		21.3	24.5		ng/L		115	40 - 150
NMeFOSAA	ND		21.3	25.1		ng/L		118	40 - 150
NEtFOSAA	ND		21.3	25.0		ng/L		117	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		213	250		ng/L		117	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		213	255		ng/L		120	40 - 150
HFPO-DA	ND		85.0	95.6		ng/L		112	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		80.4	97.1		ng/L		121	40 - 150
Perfluoro-3-methoxypropanoic acid	ND		42.6	49.6		ng/L		116	40 - 150
Perfluoro(4-methoxybutanoic acid)	ND		42.6	49.6		ng/L		116	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	ND		42.6	41.3		ng/L		97	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		79.5	86.6		ng/L		109	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		80.4	76.8		ng/L		96	40 - 150
PFEESA	ND	F2	37.9	37.2		ng/L		98	40 - 150
3:3 FTCA	ND		85.2	119		ng/L		139	40 - 150

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

Lab Sample ID: 480-207597-1 MS
Matrix: Water
Analysis Batch: 373051

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
5:3 FTCA	ND	F1	426	585		ng/L		137	40 - 150
7:3 FTCA	ND		426	506		ng/L		119	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*80.8*		*20 - 150*
13C5 PFPeA	*86.6*		*20 - 150*
13C5 PFHxA	*92.6*	*I*	*20 - 150*
13C4 PFHpA	*79.5*		*20 - 150*
13C8 PFOA	*64.3*		*20 - 150*
13C9 PFNA	*77.5*		*20 - 150*
13C6 PFDA	*76.4*		*20 - 150*
13C7 PFUnA	*71.9*		*20 - 150*
13C2-PFDoDA	*64.6*		*20 - 150*
13C2 PFTeDA	*65.7*		*20 - 150*
13C3 PFBS	*82.0*		*20 - 150*
13C3 PFHxS	*76.7*		*20 - 150*
13C8 PFOS	*75.8*		*20 - 150*
13C8 FOSA	*77.9*		*20 - 150*
d3-NMeFOSAA	*67.1*		*20 - 150*
d5-NEtFOSAA	*62.5*		*20 - 150*
M2-4:2 FTS	*78.6*		*20 - 150*
M2-6:2 FTS	*108*		*20 - 150*
M2-8:2 FTS	*68.6*		*20 - 150*
13C3 HFPO-DA	*85.5*		*20 - 150*
d7-N-MeFOSE-M	*63.6*		*20 - 150*
d9-N-EtFOSE-M	*62.1*		*20 - 150*
d5-NEtPFOSA	*56.3*		*20 - 150*
d3-NMePFOSA	*60.4*		*20 - 150*

Lab Sample ID: 480-207597-1 MSD
Matrix: Water
Analysis Batch: 373051

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	9.6		85.6	107		ng/L		113	40 - 150	8	30
Perfluoropentanoic acid	7.2	I	42.8	48.4		ng/L		96	40 - 150	14	30
Perfluorohexanoic acid	5.9		21.4	30.4		ng/L		114	40 - 150	12	30
Perfluoroheptanoic acid	1.7		21.4	24.5		ng/L		107	40 - 150	5	30
Perfluorooctanoic acid	4.6		21.4	23.4		ng/L		88	40 - 150	6	30
Perfluorononanoic acid	0.82	J	21.4	22.3		ng/L		101	40 - 150	3	30
Perfluorodecanoic acid	ND		21.4	25.6		ng/L		119	40 - 150	0	30
Perfluoroundecanoic acid	ND		21.4	25.1		ng/L		117	40 - 150	3	30
Perfluorododecanoic acid	ND		21.4	26.2		ng/L		123	40 - 150	8	30
Perfluorotridecanoic acid	ND		21.4	24.8		ng/L		116	40 - 150	6	30
Perfluorotetradecanoic acid	ND		21.4	24.4		ng/L		114	40 - 150	4	30
Perfluorobutanesulfonic acid	2.5		19.0	22.3		ng/L		104	40 - 150	10	30
Perfluoropentanesulfonic acid	ND		20.1	24.5		ng/L		122	40 - 150	7	30
Perfluorohexanesulfonic acid	1.1	J	19.6	23.0		ng/L		112	40 - 150	5	30
Perfluoroheptanesulfonic acid	ND		20.4	24.2		ng/L		119	40 - 150	6	30

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

Lab Sample ID: 480-207597-1 MSD
Matrix: Water
Analysis Batch: 373051

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA
Prep Batch: 369534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	5.3		19.9	27.4		ng/L		111	40 - 150	7	30
Perfluorononanesulfonic acid	ND		20.6	20.3		ng/L		99	40 - 150	11	30
Perfluorodecanesulfonic acid	ND		20.7	19.8		ng/L		96	40 - 150	9	30
Perfluorododecanesulfonic acid (PFDoS)	ND		20.8	19.2		ng/L		92	40 - 150	3	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		80.3	86.9		ng/L		108	40 - 150	1	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		81.3	77.3		ng/L		95	40 - 150	7	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		82.2	93.6		ng/L		114	40 - 150	6	30
Perfluorooctanesulfonamide	ND		21.4	23.2		ng/L		108	40 - 150	1	30
NMeFOSA	ND		21.4	24.8		ng/L		116	40 - 150	5	30
N-ethylperfluoro-1-octanesulfonamide	ND		21.4	23.1		ng/L		108	40 - 150	6	30
NMeFOSAA	ND		21.4	26.3		ng/L		123	40 - 150	5	30
NEtFOSAA	ND		21.4	28.8		ng/L		134	40 - 150	14	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		214	254		ng/L		119	40 - 150	2	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		214	240		ng/L		112	40 - 150	6	30
HFPO-DA	ND		85.5	87.9		ng/L		103	40 - 150	8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		80.8	92.6		ng/L		115	40 - 150	5	30
Perfluoro-3-methoxypropanoic acid	ND		42.8	43.1		ng/L		101	40 - 150	14	30
Perfluoro(4-methoxybutanoic acid)	ND		42.8	43.8		ng/L		102	40 - 150	12	30
Perfluoro-3,6-dioxaheptanoic acid	ND		42.8	52.4		ng/L		122	40 - 150	24	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		79.9	83.6		ng/L		105	40 - 150	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		80.8	70.5		ng/L		87	40 - 150	9	30
PFEESA	ND	F2	38.1	54.2	F2	ng/L		142	40 - 150	37	30
3:3 FTCA	ND		85.6	98.7		ng/L		115	40 - 150	18	30
5:3 FTCA	ND	F1	428	710	F1	ng/L		166	40 - 150	19	30
7:3 FTCA	ND		428	627		ng/L		146	40 - 150	21	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*83.5*		*20 - 150*
13C5 PFPeA	*110*		*20 - 150*
13C5 PFHxA	*80.7*		*20 - 150*
13C4 PFHpA	*94.5*		*20 - 150*
13C8 PFOA	*81.5*		*20 - 150*
13C9 PFNA	*80.5*		*20 - 150*
13C6 PFDA	*71.1*		*20 - 150*
13C7 PFUnA	*67.0*		*20 - 150*
13C2-PFDoDA	*59.1*		*20 - 150*
13C2 PFTeDA	*57.6*		*20 - 150*

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

Lab Sample ID: 480-207597-1 MSD
Matrix: Water
Analysis Batch: 373051

Client Sample ID: 828109-MW-9-9-19-040323
Prep Type: Total/NA
Prep Batch: 369534

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C3 PFBS	*83.6*		*20 - 150*
13C3 PFHxS	*76.7*		*20 - 150*
13C8 PFOS	*77.7*		*20 - 150*
13C8 FOSA	*75.2*		*20 - 150*
d3-NMeFOSAA	*61.2*		*20 - 150*
d5-NEtFOSAA	*57.7*		*20 - 150*
M2-4:2 FTS	*72.8*		*20 - 150*
M2-6:2 FTS	*88.1*		*20 - 150*
M2-8:2 FTS	*58.6*		*20 - 150*
13C3 HFPO-DA	*97.1*		*20 - 150*
d7-N-MeFOSE-M	*60.3*		*20 - 150*
d9-N-EtFOSE-M	*60.3*		*20 - 150*
d5-NEtPFOSA	*58.4*		*20 - 150*
d3-NMePFOSA	*57.9*		*20 - 150*

Lab Sample ID: MB 410-372291/1-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		8.0	2.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoropentanoic acid	ND		4.0	1.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoroheptanoic acid	ND		2.0	0.52	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorooctanoic acid	ND		2.0	0.64	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorobutanesulfonic acid	ND		2.0	0.30	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorohexanesulfonic acid	ND		2.0	0.57	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoroheptanesulfonic acid	ND		2.0	0.40	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorononanesulfonic acid	ND		2.0	0.40	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		05/04/23 16:00	05/12/23 08:51	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.0	1.7	ng/L		05/04/23 16:00	05/12/23 08:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.0	2.5	ng/L		05/04/23 16:00	05/12/23 08:51	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.0	2.6	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
NMeFOSA	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
NMeFOSAA	ND		4.0	1.2	ng/L		05/04/23 16:00	05/12/23 08:51	1

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

Lab Sample ID: MB 410-372291/1-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	ND		2.0	0.70	ng/L		05/04/23 16:00	05/12/23 08:51	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
HFPO-DA	ND		8.0	2.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoro-3-methoxypropanoic acid	ND		4.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoro(4-methoxybutanoic acid)	ND		4.0	1.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
Perfluoro-3,6-dioxaheptanoic acid	ND		4.0	1.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.0	1.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.0	2.0	ng/L		05/04/23 16:00	05/12/23 08:51	1
PFEESA	ND		4.0	0.50	ng/L		05/04/23 16:00	05/12/23 08:51	1
3:3 FTCA	ND		10	1.5	ng/L		05/04/23 16:00	05/12/23 08:51	1
5:3 FTCA	ND		50	10	ng/L		05/04/23 16:00	05/12/23 08:51	1
7:3 FTCA	ND		50	10	ng/L		05/04/23 16:00	05/12/23 08:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C5 PFPeA	*73.4*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C5 PFHxA	*80.4*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C4 PFHpA	*72.9*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C8 PFOA	*82.0*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C9 PFNA	*93.4*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C6 PFDA	*85.0*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C7 PFUnA	*90.9*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C2-PFDoDA	*91.9*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C2 PFTeDA	*95.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C3 PFBS	*86.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C3 PFHxS	*92.1*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C8 PFOS	*89.4*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C8 FOSA	*88.4*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
d3-NMeFOSAA	*84.5*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
d5-NEtFOSAA	*88.7*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
M2-4:2 FTS	*75.3*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
M2-6:2 FTS	*102*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
M2-8:2 FTS	*87.0*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
13C3 HFPO-DA	*81.1*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
d7-N-MeFOSE-M	*81.2*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
d9-N-EtFOSE-M	*80.8*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
d5-NEtPFOSA	*69.3*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*
d3-NMePFOSA	*69.7*		*20 - 150*	*05/04/23 16:00*	*05/12/23 08:51*	*1*

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

Lab Sample ID: LCS 410-372291/2-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	100	111		ng/L		111	40 - 150
Perfluoropentanoic acid	50.1	57.1	I	ng/L		114	40 - 150
Perfluorohexanoic acid	25.0	27.3		ng/L		109	40 - 150
Perfluoroheptanoic acid	25.0	25.8		ng/L		103	40 - 150
Perfluorooctanoic acid	25.0	30.9		ng/L		124	40 - 150
Perfluorononanoic acid	25.0	23.5		ng/L		94	40 - 150
Perfluorodecanoic acid	25.0	27.8		ng/L		111	40 - 150
Perfluoroundecanoic acid	25.0	29.5		ng/L		118	40 - 150
Perfluorododecanoic acid	25.0	28.2		ng/L		113	40 - 150
Perfluorotridecanoic acid	25.0	24.7		ng/L		99	40 - 150
Perfluorotetradecanoic acid	25.0	24.6		ng/L		98	40 - 150
Perfluorobutanesulfonic acid	22.2	23.4		ng/L		105	40 - 150
Perfluoropentanesulfonic acid	23.6	25.6		ng/L		109	40 - 150
Perfluorohexanesulfonic acid	22.9	25.6		ng/L		112	40 - 150
Perfluoroheptanesulfonic acid	23.9	25.9		ng/L		109	40 - 150
Perfluorooctanesulfonic acid	23.2	22.8		ng/L		98	40 - 150
Perfluorononanesulfonic acid	24.1	24.7		ng/L		102	40 - 150
Perfluorodecanesulfonic acid	24.2	24.2		ng/L		100	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	24.3	26.6		ng/L		110	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	93.1		ng/L		99	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	125		ng/L		132	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	82.6		ng/L		86	40 - 150
Perfluorooctanesulfonamide	25.0	24.8		ng/L		99	40 - 150
NMeFOSA	25.0	28.5		ng/L		114	40 - 150
N-ethylperfluoro-1-octanesulfonamide	25.0	26.8		ng/L		107	40 - 150
NMeFOSAA	25.0	24.0		ng/L		96	40 - 150
NEtFOSAA	25.0	27.9		ng/L		111	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	285		ng/L		114	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	273		ng/L		109	40 - 150
HFPO-DA	100	111		ng/L		111	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	104		ng/L		110	40 - 150
Perfluoro-3-methoxypropanoic acid	50.1	58.4		ng/L		117	40 - 150
Perfluoro(4-methoxybutanoic acid)	50.1	54.5		ng/L		109	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	50.1	56.5		ng/L		113	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	98.6		ng/L		105	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	104		ng/L		110	40 - 150
PFEESA	44.6	51.9		ng/L		116	40 - 150

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

Lab Sample ID: LCS 410-372291/2-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3:3 FTCA	100	143		ng/L		143	40 - 150
5:3 FTCA	501	688		ng/L		137	40 - 150
7:3 FTCA	501	748		ng/L		149	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*88.9*		*20 - 150*
13C5 PFPeA	*82.5*		*20 - 150*
13C5 PFHxA	*76.6*		*20 - 150*
13C4 PFHpA	*85.3*		*20 - 150*
13C8 PFOA	*85.0*		*20 - 150*
13C9 PFNA	*95.5*		*20 - 150*
13C6 PFDA	*95.0*		*20 - 150*
13C7 PFUnA	*95.0*		*20 - 150*
13C2-PFDoDA	*91.5*		*20 - 150*
13C2 PFTeDA	*101*		*20 - 150*
13C3 PFBS	*93.2*		*20 - 150*
13C3 PFHxS	*93.5*		*20 - 150*
13C8 PFOS	*95.7*		*20 - 150*
13C8 FOSA	*97.3*		*20 - 150*
d3-NMeFOSAA	*92.5*		*20 - 150*
d5-NEtFOSAA	*95.4*		*20 - 150*
M2-4:2 FTS	*82.8*		*20 - 150*
M2-6:2 FTS	*78.4*		*20 - 150*
M2-8:2 FTS	*112*		*20 - 150*
13C3 HFPO-DA	*87.8*		*20 - 150*
d7-N-MeFOSE-M	*90.6*		*20 - 150*
d9-N-EtFOSE-M	*90.9*		*20 - 150*
d5-NEtPFOSA	*80.6*		*20 - 150*
d3-NMePFOSA	*78.2*		*20 - 150*

Lab Sample ID: LLCS 410-372291/3-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372291

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	16.0	16.5		ng/L		103	40 - 150
Perfluoropentanoic acid	8.00	10.0		ng/L		125	40 - 150
Perfluorohexanoic acid	4.00	5.13		ng/L		128	40 - 150
Perfluoroheptanoic acid	4.00	4.36		ng/L		109	40 - 150
Perfluorooctanoic acid	4.00	4.51		ng/L		113	40 - 150
Perfluorononanoic acid	4.00	4.33		ng/L		108	40 - 150
Perfluorodecanoic acid	4.00	4.37		ng/L		109	40 - 150
Perfluoroundecanoic acid	4.00	4.43		ng/L		111	40 - 150
Perfluorododecanoic acid	4.00	4.54		ng/L		114	40 - 150
Perfluorotridecanoic acid	4.00	4.24		ng/L		106	40 - 150
Perfluorotetradecanoic acid	4.00	3.72		ng/L		93	40 - 150
Perfluorobutanesulfonic acid	3.55	3.62		ng/L		102	40 - 150
Perfluoropentanesulfonic acid	3.76	3.79		ng/L		101	40 - 150
Perfluorohexanesulfonic acid	3.66	3.55		ng/L		97	40 - 150

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

Lab Sample ID: LLCS 410-372291/3-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372291

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid	3.81	3.42		ng/L		90	40 - 150
Perfluorooctanesulfonic acid	3.71	3.46		ng/L		93	40 - 150
Perfluorononanesulfonic acid	3.85	3.80		ng/L		99	40 - 150
Perfluorodecanesulfonic acid	3.86	3.68		ng/L		95	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.84		ng/L		99	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	17.6		ng/L		118	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	13.4		ng/L		88	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	17.3		ng/L		113	40 - 150
Perfluorooctanesulfonamide	4.00	3.79		ng/L		95	40 - 150
NMeFOSA	4.00	4.50		ng/L		113	40 - 150
N-ethylperfluoro-1-octanesulfonamide	4.00	4.86		ng/L		122	40 - 150
NMeFOSAA	4.00	3.39	J	ng/L		85	40 - 150
NEtFOSAA	4.00	3.93		ng/L		98	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	52.8		ng/L		132	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	42.2		ng/L		106	40 - 150
HFPO-DA	16.0	17.6		ng/L		110	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	16.6		ng/L		110	40 - 150
Perfluoro-3-methoxypropanoic acid	8.00	9.86		ng/L		123	40 - 150
Perfluoro(4-methoxybutanoic acid)	8.00	9.39		ng/L		117	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	8.00	7.17		ng/L		90	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	16.2		ng/L		108	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	16.2		ng/L		107	40 - 150
PFEESA	7.12	6.78		ng/L		95	40 - 150
3:3 FTCA	16.0	24.1	*+	ng/L		151	40 - 150
5:3 FTCA	80.0	96.2		ng/L		120	40 - 150
7:3 FTCA	80.0	104		ng/L		130	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*91.5*		*20 - 150*
13C5 PFPeA	*80.5*		*20 - 150*
13C5 PFHxA	*96.5*		*20 - 150*
13C4 PFHpA	*80.6*		*20 - 150*
13C8 PFOA	*91.7*		*20 - 150*
13C9 PFNA	*93.0*		*20 - 150*
13C6 PFDA	*81.4*		*20 - 150*
13C7 PFUnA	*83.7*		*20 - 150*
13C2-PFDoDA	*78.9*		*20 - 150*

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

Lab Sample ID: LLCS 410-372291/3-A
Matrix: Water
Analysis Batch: 374841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372291

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFTeDA	86.6		20 - 150
13C3 PFBS	100		20 - 150
13C3 PFHxS	98.2		20 - 150
13C8 PFOS	93.2		20 - 150
13C8 FOSA	85.9		20 - 150
d3-NMeFOSAA	88.4		20 - 150
d5-NEtFOSAA	94.0		20 - 150
M2-4:2 FTS	90.2		20 - 150
M2-6:2 FTS	102		20 - 150
M2-8:2 FTS	90.7		20 - 150
13C3 HFPO-DA	89.5		20 - 150
d7-N-MeFOSE-M	82.0		20 - 150
d9-N-EtFOSE-M	82.4		20 - 150
d5-NEtPFOSA	64.9		20 - 150
d3-NMePFOSA	66.6		20 - 150

LCMS

Prep Batch: 365257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-7 - RA	828109-IDW-WW-040423	Total/NA	Water	1633	
480-207597-7 - DL	828109-IDW-WW-040423	Total/NA	Water	1633	
480-207597-7	828109-IDW-WW-040423	Total/NA	Water	1633	
480-207597-8	828109-MW-3-8-18-040423	Total/NA	Water	1633	
480-207597-10	828109-EB-02-040423	Total/NA	Water	1633	
MB 410-365257/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-365257/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-365257/3-A	Lab Control Sample	Total/NA	Water	1633	

Prep Batch: 369534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-1	828109-MW-9-9-19-040323	Total/NA	Water	1633	
480-207597-2	828109-MW-10-3-8-040323	Total/NA	Water	1633	
480-207597-3	828109-MW-11-3-13-040323	Total/NA	Water	1633	
480-207597-4	828109-MW-5-8.5-18.5-040323	Total/NA	Water	1633	
480-207597-5	828109-MW-905-8.5-18.5-040323	Total/NA	Water	1633	
480-207597-6	828109-MW-EB-01-040323	Total/NA	Water	1633	
MB 410-369534/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-369534/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-369534/3-A	Lab Control Sample	Total/NA	Water	1633	
480-207597-1 MS	828109-MW-9-9-19-040323	Total/NA	Water	1633	
480-207597-1 MSD	828109-MW-9-9-19-040323	Total/NA	Water	1633	

Analysis Batch: 370640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-7	828109-IDW-WW-040423	Total/NA	Water	1633	365257
480-207597-8	828109-MW-3-8-18-040423	Total/NA	Water	1633	365257
480-207597-10	828109-EB-02-040423	Total/NA	Water	1633	365257
MB 410-365257/1-A	Method Blank	Total/NA	Water	1633	365257
LCS 410-365257/2-A	Lab Control Sample	Total/NA	Water	1633	365257
LLCS 410-365257/3-A	Lab Control Sample	Total/NA	Water	1633	365257

Prep Batch: 372291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-7 - RE	828109-IDW-WW-040423	Total/NA	Water	1633	
MB 410-372291/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-372291/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-372291/3-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 373051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-1	828109-MW-9-9-19-040323	Total/NA	Water	1633	369534
480-207597-2	828109-MW-10-3-8-040323	Total/NA	Water	1633	369534
480-207597-3	828109-MW-11-3-13-040323	Total/NA	Water	1633	369534
480-207597-4	828109-MW-5-8.5-18.5-040323	Total/NA	Water	1633	369534
480-207597-5	828109-MW-905-8.5-18.5-040323	Total/NA	Water	1633	369534
480-207597-6	828109-MW-EB-01-040323	Total/NA	Water	1633	369534
MB 410-369534/1-A	Method Blank	Total/NA	Water	1633	369534
LCS 410-369534/2-A	Lab Control Sample	Total/NA	Water	1633	369534
LLCS 410-369534/3-A	Lab Control Sample	Total/NA	Water	1633	369534
480-207597-1 MS	828109-MW-9-9-19-040323	Total/NA	Water	1633	369534

LCMS (Continued)

Analysis Batch: 373051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-1 MSD	828109-MW-9-9-19-040323	Total/NA	Water	1633	369534

Analysis Batch: 374841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-7 - RE	828109-IDW-WW-040423	Total/NA	Water	1633	372291
MB 410-372291/1-A	Method Blank	Total/NA	Water	1633	372291
LCS 410-372291/2-A	Lab Control Sample	Total/NA	Water	1633	372291
LLCS 410-372291/3-A	Lab Control Sample	Total/NA	Water	1633	372291

Analysis Batch: 377962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207597-7 - RA	828109-IDW-WW-040423	Total/NA	Water	1633	365257
480-207597-7 - DL	828109-IDW-WW-040423	Total/NA	Water	1633	365257

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-MW-9-9-19-040323
Lab Sample ID: 480-207597-1
Date Collected: 04/03/23 15:25
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			369534	U5HI	ELLE	04/27/23 17:55
Total/NA	Analysis	1633		1	373051	P7YX	ELLE	05/08/23 01:37

Client Sample ID: 828109-MW-10-3-8-040323
Lab Sample ID: 480-207597-2
Date Collected: 04/03/23 12:05
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			369534	U5HI	ELLE	04/27/23 17:55
Total/NA	Analysis	1633		1	373051	P7YX	ELLE	05/08/23 02:17

Client Sample ID: 828109-MW-11-3-13-040323
Lab Sample ID: 480-207597-3
Date Collected: 04/03/23 12:08
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			369534	U5HI	ELLE	04/27/23 17:55
Total/NA	Analysis	1633		1	373051	P7YX	ELLE	05/08/23 02:56

Client Sample ID: 828109-MW-5-8.5-18.5-040323
Lab Sample ID: 480-207597-4
Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			369534	U5HI	ELLE	04/27/23 17:55
Total/NA	Analysis	1633		1	373051	P7YX	ELLE	05/08/23 03:09

Client Sample ID: 828109-MW-905-8.5-18.5-040323
Lab Sample ID: 480-207597-5
Date Collected: 04/03/23 15:35
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			369534	U5HI	ELLE	04/27/23 17:55
Total/NA	Analysis	1633		1	373051	P7YX	ELLE	05/08/23 03:22

Client Sample ID: 828109-MW-EB-01-040323
Lab Sample ID: 480-207597-6
Date Collected: 04/03/23 16:30
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			369534	U5HI	ELLE	04/27/23 17:55
Total/NA	Analysis	1633		1	373051	P7YX	ELLE	05/08/23 03:35

Lab Chronicle

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Client Sample ID: 828109-IDW-WW-040423
Lab Sample ID: 480-207597-7
Date Collected: 04/04/23 10:15
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633	RE		372291	U5HI	ELLE	05/04/23 16:00
Total/NA	Analysis	1633	RE	1	374841	UCD3	ELLE	05/12/23 11:41
Total/NA	Prep	1633	RA		365257	U5HI	ELLE	04/17/23 21:30
Total/NA	Analysis	1633	RA	1	377962	UUV6	ELLE	05/19/23 22:26
Total/NA	Prep	1633	DL		365257	U5HI	ELLE	04/17/23 21:30
Total/NA	Analysis	1633	DL	10	377962	UUV6	ELLE	05/19/23 22:39
Total/NA	Prep	1633			365257	U5HI	ELLE	04/17/23 21:30
Total/NA	Analysis	1633		1	370640	UCD3	ELLE	05/01/23 19:07

Client Sample ID: 828109-MW-3-8-18-040423
Lab Sample ID: 480-207597-8
Date Collected: 04/04/23 13:50
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			365257	U5HI	ELLE	04/17/23 21:30
Total/NA	Analysis	1633		1	370640	UCD3	ELLE	05/01/23 18:51

Client Sample ID: 828109-EB-02-040423
Lab Sample ID: 480-207597-10
Date Collected: 04/04/23 13:15
Matrix: Water
Date Received: 04/05/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			365257	U5HI	ELLE	04/17/23 21:30
Total/NA	Analysis	1633		1	370640	UCD3	ELLE	05/01/23 18:34

Laboratory References:

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

Accreditation/Certification Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	<cert No.>	01-31-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	05-31-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	05-22-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	05-29-23
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	05-29-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	05-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	05-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23

Accreditation/Certification Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

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

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

Authority	Program	Identification Number	Expiration Date
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: CDM Smith Inc
Job ID: 480-207597-1
Project/Site: CDM Smith - Speedy's Cleaners

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: CDM Smith Inc
Project/Site: CDM Smith - Speedy's Cleaners

Job ID: 480-207597-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207597-1	828109-MW-9-9-19-040323	Water	04/03/23 15:25	04/05/23 09:30
480-207597-2	828109-MW-10-3-8-040323	Water	04/03/23 12:05	04/05/23 09:30
480-207597-3	828109-MW-11-3-13-040323	Water	04/03/23 12:08	04/05/23 09:30
480-207597-4	828109-MW-5-8.5-18.5-040323	Water	04/03/23 15:35	04/05/23 09:30
480-207597-5	828109-MW-905-8.5-18.5-040323	Water	04/03/23 15:35	04/05/23 09:30
480-207597-6	828109-MW-EB-01-040323	Water	04/03/23 16:30	04/05/23 09:30
480-207597-7	828109-IDW-WW-040423	Water	04/04/23 10:15	04/05/23 09:30
480-207597-8	828109-MW-3-8-18-040423	Water	04/04/23 13:50	04/05/23 09:30
480-207597-10	828109-EB-02-040423	Water	04/04/23 13:15	04/05/23 09:30

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JCG / MJH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.1
Client Contact: William Wert	Phone: (607) 239-3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23			
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

480-207597 Chain of Custody

K - EDTA
L - EDA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS - Local Method	300.0_28D - ClISO4	5310C - TOC	SM4500_S2_F - Sulfide	353.2 - Nitrate/nitrite	2320B - Alk	8260C -	1010A, 8082A, 9012B, 9045C	1633 -	6010C, 7470A, 8081B, 8151A, 8270D	8082A -	8081B, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code				N	N	N	A	CB	N	N	N	N	N	N	N	N		
828109-MW-9-9-19-040323	4/3/23	15:25	G	Water			X	X						*						3	PFAS only
828109-MW-9-9-19-040323-MS	4/3/23	15:25	G	Water			X	X						*						3	
828109-MW-9-9-19-040323-MSD	4/3/23	15:25	G	Water			X	X						*						3	
828109-MW-10-3-8-040323	4/3/23	12:05	G	Water			X	X												3	
828109-MW-11-3-13-040323	4/3/23	12:04	G	Water			X	X												3	
828109-MW-5-8.5-18.5-040323	4/3/23	15:35	G	Water			X	X												3	Sample time 15:35
828109-MW-905-8.5-18.5-040323	4/3/23	15:35	G	Water			X	X												3	
828109-EB-01-040323	4/3/23	16:30	G	water			X	X												3	
828109-IDW-WW-040423	4/4/23	10:15	C	water			X	X												3	
828109-MW-3-8-18-040423	4/4/23	13:50	G	water			X	X												3	
828109-IDW-Soil-040423	4/4/23	8:00	C	soil			X													1	

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

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

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

Special Instructions/QC Requirements: Do Not Run 8260C

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4/4/23 16:45	CDMSmith	[signature]	4/5/23 930	TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4.0# ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JG/MTH	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-183685-38928.2
Client Contact: William Wert	Phone: (607) 239-3964	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: CDM Smith Inc	PWSID:			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested: 4/15/23			
City: Latham	TAT Requested (days): 10			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 110645			
Email: wertwa@cdmsmith.com	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A -	6010C, 7470A	9012B -	9040B - pH	1010A - Ignitability, Pensky-Martens Closed-Cup Method	8260C	1633 (List of 40)	1633 - Draft TSS - Local						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	B	N	N										
828109 - EB-02-040423	4/4/23	13:15	G	Water									X	X						3	
				~~Water~~																	
				~~Water~~																	
				~~Water~~																	
				~~Water~~																	
				~~Solid~~																	
				~~Water~~																	

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	4/4/23 16:45	CDM Smith	[signature]	4/5/23 938	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79620.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207597-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/25/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	1633/1633_Biosol_P List of 40 (EPA 1633 Draft Method)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
828109-MW-9-9-19-040323 (480-207597-1)	4/3/23	15:25 Eastern		Water			X	X		3	
828109-MW-9-9-19-040323 (480-207597-1MS)	4/3/23	15:25 Eastern	MS	Water			X	X		3	
828109-MW-9-9-19-040323 (480-207597-1MSD)	4/3/23	15:25 Eastern	MSD	Water			X	X		3	
828109-MW-10-3-8-040323 (480-207597-2)	4/3/23	12:05 Eastern		Water			X	X		3	
828109-MW-11-3-13-040323 (480-207597-3)	4/3/23	12:08 Eastern		Water			X	X		3	
828109-MW-5-8 5-18 5-040323 (480-207597-4)	4/3/23	15:35 Eastern		Water			X	X		3	
828109-MW-905-8 5-18 5-040323 (480-207597-5)	4/3/23	15:35 Eastern		Water			X	X		3	
828109-MW-EB-01-040323 (480-207597-6)	4/3/23	16:30 Eastern		Water			X	X		3	
828109-IDW-WW-040423 (480-207597-7)	4/4/23	10:15 Eastern		Water			X	X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	4-6-23 1800	JMB			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	4/10/23 0840	Eurofins

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 12.0/0.5

HC

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-79620.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin: New York	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New York		Job #: 480-207597-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/25/2023			Preservation Codes:
City: Lancaster	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: CDM Smith - Speedy's Cleaners	Project #: 48026213			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS	1633/1633_Biosol_P List of 40 (EPA 1633 Draft Method)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
828109-MW-3-8-18-040423 (480-207597-8)	4/4/23	13:50 Eastern		Water			X	X		3	
828109-IDW-SOIL-040423 (480-207597-9)	4/4/23	08:00 Eastern		Solid					X	1	
828109-EB-02-040423 (480-207597-10)	4/4/23	13:15 Eastern		Water			X	X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4-6-23 1800	TAB			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/10/23 0840	Company

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 12.0 / 0.5

HC

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207597-1

Login Number: 207597
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207597-1

Login Number: 207597
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/07/23 01:14 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	False	Refer to Job Narrative for details.
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 480-207597-1

Login Number: 207597
List Number: 3
Creator: Chambers, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/10/23 11:56 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Appendix F

Data Usability Summary Reports

- *2021 Data Usability Summary Reports*
- *2023 Data Usability Summary Reports*

2021 Data Usability Summary Reports

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Speedy's Cleaners #828109
Eurofins SDG#480-185607-1
August 25, 2021
Reissued: October 4, 2021
Sampling date: 6/1, 2/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(reissued; October 4, 2021) for CDM Smith, Inc., project located at Speedy's Cleaners #828109, Eurofins SDG#480-185607-1 submitted to Vali-Data of WNY, LLC on July 20, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(1/2021) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Perfluorinated Hydrocarbons (537 modified) and Inorganics (6010C).

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Laboratory Control Samples, MS/MSD and Continuing Calibration.

Sample, 828109-BS-911-13-14-060221 was method 5035L non-compliant, so any detects in the sample detected below 200ug/kg should be qualified as estimated low.

Samples: 828109-BS-13-10-12-060121, 828109-BS-14-10-11-060121, 828109-BS-12-14-15-060221, 828109-BS-11-13-14-060221 and 828109-BS-11-13-14-060221MS/MSD were diluted

and run at medium level analysis due to sample matrix.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met except Methylene chloride and Tetrachloroethene were detected in 828109-BS-911-13-14-060221 but were not detected in 828109-BS-11-13-14-060221.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Bromomethane and Chloroethane were outside QC limits, high in LCS 480-585031/1-A and should be qualified as estimated. These target analytes should be qualified as estimated high in the associated samples in which they were detected.

MS/MSD
All criteria were met except the %Rec of 1,1,2,2-Tetrachloroethane was outside QC limits, high in 828109-BS-11-13-14-060221 and should be qualified as estimated. This target analyte should be qualified as estimated high in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221, if detected.
Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %D of Bromomethane and Chloroethane was outside QC limits in CCVIS 480-584982/3. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Laboratory Control Samples and MS/MSD.

Samples: 828109-BS-11-13-14-060221, 828109-BS-911-13-14-060221 and 828109-BS-11-13-14-060221MS/MSD were diluted due to color and appearance.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met except Acenaphthylene, Anthracene, Carbazole and Dibenz(a,h)anthracene were detected in 828109-BS-911-13-14-060221 but were not detected in 828109-BS-11-13-14-060221.

LABORATORY CONTROL SAMPLES
All criteria were met except the concentration of Benzaldehyde exceeded the calibration limits in LCS 480-584900/2-A and is qualified with an 'E'. This target analyte should be qualified as estimated high in the associated samples in which it was detected.

MS/MSD
All criteria were met except the %Rec of 2,4-Dinitrophenol was 0% in 828109-BS-11-13-14-06022MS/MSD and should be qualified as unusable in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221.
The %Rec of Benzo(a)pyrene, Chrysene and Fluoranthene was outside QC limits, low in 828109-BS-11-13-14-060221MS/MSD and should be qualified as estimated. These target analytes should be qualified as estimated in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221.
The %Rec of 2,4-Dinitrotoluene was outside QC limits, high in 828109-BS-11-13-14-060221MS/MSD and should be qualified as estimated. This target analyte should be qualified as estimated high in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221, if detected.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

PESTICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Surrogate Spike Recoveries, Laboratory Control Samples, Method Blank, MS/MSD, Compound Quantitation and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of DCBP off both columns and TCMX off column RTX-CLPI was outside QC limits, low in 828109-BS-11-13-14-060221MS and should be qualified as estimated. The %Rec of TCMX off column RTX-CLPII was <10% in 828109-BS-11-13-14-060221MS and should be qualified as estimated. RTX-CLPII was prime, so detects in this spike should be qualified as estimated low and non-detects should be qualified as unusable.
The %Rec of DCBP off both columns and TCMX off column RTX-CLPI was outside QC limits, high in 828109-BS-11-13-14-060221MSD and should be qualified as estimated. Associated target analytes detected in this spike should be qualified as estimated high.

METHOD BLANK
All the criteria were met except 4,4'-DDT and Endrin ketone were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-584987/1-A. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit.
The RPD of Endrin ketone was outside QC limits between the columns in MB 480-584987/1-A and should be qualified as estimated.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met except Endrin ketone was detected in 828109-BS-911-13-14-060221 but was not detected in 828109-BS-11-13-14-060221. Methoxychlor was detected in 828109-BS-11-13-14-060221 but was not detected in 828109-BS-911-13-14-060221.

LABORATORY CONTROL SAMPLES
All criteria were met except the RPD Heptachlor epoxide, Endrin and Endosulfan sulfate was outside QC limits between the columns in LCS 480-584987/2-A and should be qualified as estimated.

MS/MSD
All criteria were met except the %Rec and RPD of all target analytes was outside QC limits in 828109-BS-11-13-14-060221MS and 828109-BS-11-13-14-060221MSD and should be qualified as estimated. All target analytes should be qualified as estimated in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221.
The RPD of alpha-BHC, trans-Chlordane and cis-Chlordane was outside QC limits between the columns in 828109-BS-11-13-14-060221MS and should be qualified as estimated. The RPD of Heptachlor epoxide, Endrin, Methoxychlor and cis-Chlordane was outside QC limits between the columns in 828109-BS-11-13-14-060221MSD and should be qualified as estimated.

COMPOUND QUANTITATION
All criteria were met except the RPD of trans-Chlordane, cis-Chlordane and Methoxychlor was outside QC limits between the columns in 828109-11-13-14-060221 and should be qualified as estimated. The RPD of trans-Chlordane, cis-Chlordane and Endrin ketone was outside QC limits between the columns in 828109-911-13-14-060221 and should be qualified as estimated.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %D of Toxaphene peak 1 off column RTX-CLPII was outside QC limits in CCV 480-584953/7 and CCV 480-585200/8. This target analyte should be qualified as estimated in the associated samples, blanks and spikes off the associated column.
Several target analytes were outside QC limits off the secondary column, so no further action is required.
Some target analytes were outside laboratory QC limits but within NFG QC limits, so no further action is required.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and MS/MSD.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of DCBP off both columns and TCMX off column ZB-35 was outside QC limits, high in 828109-BS-11-13-14-060221MS and should be qualified as estimated. The %Rec of DCBP off both columns was outside QC limits, high in 828109-BS-11-13-14-060221MSD and should be qualified as estimated. The %Rec of DCBP off column ZB-5 was outside QC limits, high in MB 480-585080/1-A and 828109-BS-11-13-14-060221 and should be qualified as estimated. Associated target analytes detected in these samples should be qualified as estimated high.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All the criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met except the %Rec of Aroclor 1260 was outside QC limits, high in 828109-BS-11-13-14-060221MS/MSD and should be qualified as estimated. The RPD of Aroclor 1016 and Aroclor 1260 was outside QC limits between 828109-BS-11-13-14-060221MS and 828109-BS-11-13-14-060221MSD and should be qualified as estimated. These target analytes should be qualified as estimated in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

Alternate forms of regression were used on all of the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.
Some target analytes were outside QC limits off the secondary column, so no further action is required.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Blanks.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE RECOVERIES
All criteria were met.

BLANKS
All the criteria were met except PFBS was detected above the MDL, below the reporting limit and is qualified as estimated in MB 200-167997/1-A. PFDA, PFUnA, PFBS, PFHxS, PFHpS, PFOS, PFDS, PFOSA, NMeFOSAA and PFTriA were detected above the MDL, below the reporting limit and are qualified as estimated in ICB 200-167122/8. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit but below 10x the blank concentration.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on some of the target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD/Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks, MS/MSD and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except Mn was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-584913/1-A. Fe and Mn were detected above the MDL, below the reporting limit and are qualified as estimated in CCB 480-585401/51. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected above the MDL, and below the reporting limit. These target analytes should be qualified as estimated high in the associated samples in which they were detected above the reporting limit.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met except the %Rec of Sb and Cu was outside QC limits, low in 828109-BS-11-13-14-060221MS/MSD and should be qualified as estimated. The RPD of Sb, Na and Zn was outside QC limits between 828109-BS-11-13-14-060221MS and 828109-BS-11-13-14-060221MSD and should be qualified as estimated. These target analytes should be qualified as estimated in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221.
The %Rec of K was outside QC limits, high in 828109-BS-11-13-14-060221MS/MSD and should be qualified as estimated. This target analyte should be qualified as estimated high in 828109-BS-11-13-14-060221 and 828109-BS-911-13-14-060221, if detected.

FIELD DUPLICATE
All criteria were met.

SERIAL DILUTION
No serial dilution was performed.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except the %Rec of K was outside QC limits, low in ICVL 480-585401/7.
The %Rec of K, Cr, Fe, Ag and Zn was outside QC limits, low in CCVL 480-585401/19. The %Rec of Cr, Ni and K was outside QC limits, low in CCVL 480-585401/31. The %Rec of Be, Cu, K, Ag, V and Zn was outside QC limits, low in CCVL 480-585401/43. The %Rec of Ag and K was outside QC limits, low in CCVL 480-585401/52. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.
The %Rec of Al was outside QC limits, high in CCVL 480-585401/31. The %Rec of Sb was outside QC limits, high in CCVL 480-585401/43. The %Rec of Al, Ba, Cu, Fe, Mg and Mn was outside QC limits, high in CCVL 480-585401/52. These target analytes should be qualified as estimated high in the associated blanks, samples and spikes in which they were detected.

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Speedy's Cleaners #828109
Eurofins SDG#480-186340-1
August 26, 2021
Reissued; September 21, 2021
Sampling date: 6/21/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(reissued September 21, 2021) for CDM Smith, Inc., project located at Speedy's Cleaners #828109, Eurofins SDG#480-186340-1 submitted to Vali-Data of WNY, LLC on July 20, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(1/2021) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM ID), Pesticides (8081B), PCB (8082A), Perfluorinated Hydrocarbons (537 modified) and Inorganics (6010C) and in accordance with wet chemistry methods.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Method Blank, Laboratory Control Samples, MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except Di-n-butyl phthalate was detected above the reporting limit in MB 480-587140/1-A. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as undetected in associated samples in which it was detected above the reporting limit but below the blank concentration. This target analyte should be qualified as estimated high in associated samples in which it was detected above the blank concentration.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Carbazole and Di-n-butyl phthalate was outside QC limits, high in LCS 480-587140/2-A and is should be qualified as estimated. These target analytes should be qualified as estimated high in the associated samples in which they were detected.

MS/MSD
All criteria were met except the %Rec of 4-Chloro-3-methylphenol and Pentachlorophenol was outside QC limits, high in 828109-MW-2-062121MS/MSD and should be qualified as estimated. These target analytes should be qualified as estimated high in 828109-MW-2-062121, if detected.
Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %D of Carbazole was outside QC limits in CCVIS 480-587795/3. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

GC/MS PERFORMANCE CHECK
All criteria were met.

PESTICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Method Blank and MS/MSD.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except delta-BHC, gamma-BHC and Endrin aldehyde were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-586730/1-A. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should

be qualified as estimated high in associated samples in which they were detected above the reporting limit.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met the RPD of beta-BHC was outside QC limits between the columns in 828109-MW-2-062121MSD and should be qualified as estimated.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all target analytes and some surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All the criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on most the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.
Some target analytes were outside QC limits off the secondary column, so no further action is required.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Blanks.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE RECOVERIES
All criteria were met.

BLANKS
All the criteria were met except PFDA, PFUnA, PFBS, PFHxS, PFHpS, PFOS, PFDoA, PFHpA, PFNA and PFDS were detected above the MDL, below the reporting limit and are qualified as estimated in ICB 200-167122/8. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit but below 10x the blank concentration.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on some of the target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except K was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-586557/1-A and CCB 480-586756/18. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected above the MDL, and below the reporting limit. This target analyte should be qualified as estimated high in the associated samples in which it was detected above the reporting limit.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
All criteria were met.

FIELD DUPLICATE
No field duplicate was acquired.

SERIAL DILUTION
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except the %Rec of Pb was outside QC limits, low in CCVL 480-586756/48.

This target analyte should be qualified as estimated in the associated samples, blanks and spikes.
The %Rec of Ba was outside QC limits, high in ICVL 480-586756/7. The %Rec of K and Na was outside QC limits, high in CCVL 480-586756/19. The %Rec of Al and Ba was outside QC limits, high in CCVL 480-586756/31. The %Rec of Al, Na and Ba was outside QC limits, high in CCVL 480-586756/48. These target analytes should be qualified as estimated high in the associated blanks, samples and spikes in which they were detected.

GENERAL CHEMISTRY

The following items/criteria were reviewed for this analytical suite:

- Nitrate/Nitrite
- Sulfide
- TOC
- Sulfate
- Alkalinity
- Ferrous Fe
- Chloride

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below.

NITRATE/NITRITE
All criteria were met.

SULFIDE
All criteria were met.

TOC
All criteria were met.

SULFATE
All criteria were met except the %Rec of Sulfate was outside QC limits, high in 828109-MW-2-062121MS/MSD and should be qualified as estimated. This target analyte should be qualified as estimated high in 828109-MW-2-062121, if detected.

ALKALINITY
All criteria were met except the %Rec of Alkalinity was outside QC limits, low in 828109-MW-2-062121MS/MSD and should be qualified as estimated. This target analyte should be qualified

as estimated in 828109-MW-2-062121.

FERROUS Fe
All criteria were met except this target analyte was outside of hold time in 828109-MW-2-062121, 828109-MW-2-062121LR and 828109-MW-2-062121MS/MSD and should be qualified as estimated.

CHLORIDE
All criteria were met.

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Speedy's Cleaners #828109
Eurofins SDG#480-186377-1
August 27, 2021
Reissued; September 28, 2021
Sampling date: 6/22/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(reissued September 28, 2021) for CDM Smith, Inc., project located at Speedy's Cleaners #828109, Eurofins SDG#480-186377-1 submitted to Vali-Data of WNY, LLC on July 20, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM ID), Pesticides (8081B), PCB (8082A) and Inorganics (6010C) and in accordance with wet chemistry methods.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

Samples: 828109-GW-MW-6-062221 and 828109-GW-MW-906-062221 were diluted due to foaming.
Samples: 828109-GW-MW-5-062221 and 828109-GW-MW-3-062221 were diluted due to high target analyte concentrations

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Method Blank, Laboratory Control Samples and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except Di-n-butyl phthalate was detected above the reporting limit in MB 480-587140/1-A. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as undetected in associated samples in which it was detected above the reporting limit but below the blank concentration. This target analyte should be qualified as estimated high in associated samples in which it was detected above the blank concentration.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Carbazole and Di-n-butyl phthalate was outside QC limits, high in LCS 480-587140/2-A and is should be qualified as estimated. These target analytes should be qualified as estimated high in the associated samples in which they were detected.

MS/MSD
No MS/MSD was acquired.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %D of Carbazole was outside QC limits in CCVIS 480-587795/3. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

GC/MS PERFORMANCE CHECK
All criteria were met.

PESTICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times

- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Method Blank and Compound Quantitation.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.
Some surrogates were outside laboratory QC limits but with NFG limits, so no further action is required.

METHOD BLANK
All the criteria were met except delta-BHC, gamma-BHC and Endrin aldehyde were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-586730/1-A. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met except 4,4'-DDD, Endrin aldehyde and Heptachlor were detected in 828109-GW-MW-6-062221 but were not detected in 828109-GW-MW-906-062221. Delta-BHC was detected in 828109-GW-MW-906-062221 but were not detected in 828109-GW-MW-6-062221.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired.

COMPOUND QUANTITATION
All criteria were met except the RPD of Aldrin, cis-Chlordane, 4,4'-DDE and Endrin aldehyde was outside QC limits between the columns in 828109-GW-MW-6-062221 and should be qualified as estimated. The RPD of Aldrin, cis-Chlordane, 4,4'-DDE, delta-BHC and gamma-BHC was outside QC limits between the columns in 828109-GW-MW-906-062221 and should be qualified as estimated.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all target analytes and some surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all of the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.
Some target analytes were outside QC limits off the secondary column, so no further action is required.
Some target analytes were outside laboratory QC limits but with NFG limits, so no further action is required.

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate
- -Field Duplicate
- -Serial Dilution
- -Compound Quantitation
- -Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except K and Na were detected above the MDL, below the reporting limit and are qualified as estimated in CCB 480-586999/24. Ca and Mn were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-586695/1-A. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected above the MDL, and below the reporting limit. These target analytes should be qualified as estimated high in the associated samples in which they were detected above the reporting limit.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
No MS/MSD/Duplicate was acquired.

FIELD DUPLICATE
All criteria were met.

SERIAL DILUTION
No serial dilution was performed.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except the %Rec of Al and Zn was outside QC limits, low in ICVL 480-586999/7. The %Rec of Cr, Se and Zn was outside QC limits, low in CCVL 480-586999/19. The %Rec of Al, Se, Ag, V and Zn was outside QC limits, low in CCVL 480-586999/25. The %Rec of Al, K and Zn was outside QC limits, low in CCVL 480-586999/49. The %Rec of Cr, Cu, Se and Zn was outside QC limits, low in CCVL 480-586999/57. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

GENERAL CHEMISTRY

The following items/criteria were reviewed for this analytical suite:

- Nitrate/Nitrite
- Sulfide
- TOC
- Alkalinity
- Ferrous Fe

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below.

NITRATE/NITRITE
All criteria were met except Nitrate/Nitrite was detected above the MDL, below the reporting limit and are qualified as estimated in CCB99 in batch#586706 and MB 480-586706/100, 124. This target analyte should be qualified as undetected in associated samples in which it was detected above the reporting limit but below the blank concentration. This target analyte should be qualified as estimated high in associated samples in which it was detected above the blank concentration.
Nitrate/Nitrite was detected in 828109-GW-MW-906-062221 but was not detected in 828109-GW-MW-6-062221.

SULFIDE
All criteria were met.

TOC
All criteria were met.

ALKALINITY
All criteria were met.

FERROUS Fe
All criteria were met except this target analyte was outside of hold time in the samples and matrix spike and should be qualified as estimated.

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Speedy's Cleaners #828109
Eurofins SDG#480-186439-1
August 30, 2021
Reissued; September 21, 2021
Sampling date: 6/21-23/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(reissued September 21, 2021) for CDM Smith, Inc., project located at Speedy's Cleaners #828109, Eurofins SDG#480-186439-1 submitted to Vali-Data of WNY, LLC on July 20, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG), NYSDEC; 'Guidelines for Sampling and Analysis of PFAS'(1/2021) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D, 8270D SIM ID), Pesticides (8081B), PCB (8082A), Perfluorinated Hydrocarbons (537 modified) and Inorganics (6010C) and in accordance with wet chemistry methods.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

Sample: 282109-MW-2B-062321 was diluted due to foaming.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired for this analysis.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met except Methylene Chloride was detected above the reporting limit in EB-01. This target analyte was not detected in the other sample, so no further action is required.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.
Some target analytes were outside laboratory QC limits but within NFG limits, so no further action is required.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Method Blank, Laboratory Control Samples and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except Di-n-butyl phthalate was detected above the reporting limit in MB 480-587140/1-A. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected below the reporting limit. This target analyte should be qualified as undetected in associated samples in which it was detected above the reporting limit but below the blank concentration. This target analyte should be qualified as estimated high in associated samples in which it was detected above the blank concentration.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired for this analysis.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Carbazole and Di-n-butyl phthalate was outside QC limits, high in LCS 480-587140/2-A and is should be qualified as estimated. These target analytes should be qualified as estimated high in the associated samples in which they were detected.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met except Di-n-butyl phthalate was detected above the reporting limit in EB-01. No other samples were analyzed, so no further action is required.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the %D of Carbazole was outside QC limits in CCVIS 480-587795/3. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

GC/MS PERFORMANCE CHECK
All criteria were met.

PESTICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Method Blank and Compound Quantitation.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except gamma-BHC was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-587053/1-A. This target analyte should be qualified as undetected at the reporting limit in associated samples in which it was detected

below the reporting limit. This target analyte should be qualified as estimated high in associated samples in which it was detected above the reporting limit.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired for this analysis.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met except gamma-BHC was detected above the MDL, below the reporting limit in EB-01. This target analyte was detected in the blank and it would be considered undetected in EB-01, so no further action is required.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on all target analytes and some surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.
Some target analytes were outside QC limits off the secondary column, so no further action is required.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired for this analysis.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on most the target analytes and surrogates, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

Some target analytes were outside QC limits off the secondary column, so no further action is required.

PFAA

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS)
- Surrogate Recoveries
- Blanks
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Blanks and Laboratory Control Samples.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE RECOVERIES
All criteria were met.

BLANKS
All the criteria were met except PFDA, PFUnA, PFBS, PFHxS, PFHpS, PFOS, PFDoA, PFHpA, PFNA and PFDS were detected above the MDL, below the reporting limit and are qualified as estimated in ICB 200-167122/8. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit but below 10x the blank concentration.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of PFUnA was outside QC limits in LCS 200-168535/2-A. This target analyte should be qualified as estimated in the associated samples.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All the criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were used on some of the target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- -Data Completeness
- -Narrative and Data Reporting Forms
- -Chain of Custody and Traffic Reports
- -Holding Times
- -Blanks
- -Laboratory Control Sample
- -MS/MSD/Duplicate

-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks and Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except K and Mn were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-586928/1-A. K was detected above the MDL, below the reporting limit and is qualified as estimated in CCB 480-587193/39, 51, 56. These target analytes should be qualified as undetected at the reporting limit in associated samples in which they were detected above the MDL, and below the reporting limit. These target analytes should be qualified as estimated high in the associated samples in which they were detected above the reporting limit.

LABORATORY CONTROL SAMPLE
All criteria were met.

MS/MSD/DUPLICATE
No MS/MSD was acquired for this analysis.

FIELD DUPLICATE
No field duplicate was acquired for this analysis.

SERIAL DILUTION
No serial dilution was performed.

COMPOUND QUANTITATION
All criteria were met.

CALIBRATION
All criteria were met except the %Rec of Se was outside QC limits, low in CCVL 480-587193/19, 52. The %Rec of Pb was outside QC limits, low in CCVL 480-587193/28. The %Rec of Se and Cu was outside QC limits, low in CCVL 480-587193/57. The %Rec of K was outside QC limits, low in CCVL 480-587400/17. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.
The %Rec of As, Ba and Mn was outside QC limits, high in ICVL 480-587193/7. The %Rec of As, Ba and Na was outside QC limits, high in CCVL 480-587193/19. The %Rec of Na and Ba was outside QC limits, high in CCVL 480-587193/28. The %Rec of Mn, Na and Ba was outside QC limits, high in CCVL 480-587193/40. The %Rec of As, Ba, Be, Mn, Na and K was outside QC limits, high in CCVL 480-587193/52. The %Rec of As, Mn, Na, K and Ba was outside QC limits, high in CCVL 480-587193/57. These target analytes should be qualified as estimated high in the associated blanks, samples and spikes in which they were detected.

GENERAL CHEMISTRY

The following items/criteria were reviewed for this analytical suite:

- Nitrate/Nitrite
- Sulfide
- TOC
- Sulfate
- Alkalinity
- Ferrous Fe
- Chloride

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below.

NITRATE/NITRITE
All criteria were met except Nitrate/Nitrite as detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-586907/4. This target analyte was not detected in the associated sample, so no further action is required.

SULFIDE
All criteria were met.

TOC
All criteria were met.

SULFATE
All criteria were met.

ALKALINITY
All criteria were met.

FERROUS Fe
All criteria were met except this target analyte was outside of hold time in the samples, MS and duplicate and should be qualified as estimated.

CHLORIDE
All criteria were met.

2023 Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
SPEEDY's CLEANERS, PITTSFORD, NEW YORK

Client: CDM Smith, Latham, New York
SDG: 480-207038-1
Laboratory: Eurofins, Buffalo, New York
Site: Speedy's Cleaners, Pittsford, New York
Date: May 31, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	TB-03132023	480-207038-1	Water
2	GWS-3-03132023	480-207038-2	Water
3	GWS-2-03132023	480-207038-3	Water
3RE1†	GWS-2-03132023RE1	480-207038-3RE1	Water
3RE2†	GWS-2-03132023RE2	480-207038-3RE2	Water
3DL†	GWS-2-03132023DL	480-207038-3DL	Water
4	GWS-902-03132023	480-207038-4	Water
5	GWS-4-03132023	480-207038-5	Water
6	EB-03132023	480-207038-6	Water
7	GWS-5-03132023	480-207038-7	Water
7MS	GWS-5-03132023MS	480-207038-7MS	Water
7MSD	GWS-5-03132023MSD	480-207038-7MSD	Water
8	GWS-6-03132023	480-207038-8	Water
9*	GWS-7-03132023	480-207038-9	Water
10*	GWS-8-03132023	480-207038-10	Water
11	GWS-1-03162023	480-207038-11	Water
12†	EB-03162023	480-207038-12	Water

* - VOC only † - PFAS only

A Data Usability Summary Review (DUSR) was performed on the analytical data for nine water samples, two aqueous equipment blank samples, and one aqueous trip blank sample collected on March 13-16, 2023 by CDM Smith at the Speedy's Cleaners site in Pittsford, New York. The samples were analyzed under the Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260C
PFAS	USEPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537, November 2018;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics/PFAS

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Liquid Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of acetone, 2-butanone and methylene chloride (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TB-03132023	Chloroform	2.0	U	5, 11
EB-03132023	Chloroform	1.9	None	See TB

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision was acceptable.

Compound	GWS-2-03132023 ug/L	GWS-902-03132023 ug/L	RPD	Qualifier
cis-1,2-Dichloroethene	91	99	8%	None
Tetrachloroethene	220	220	0%	
Trichloroethene	21	23	9%	
Vinyl Chloride	16	16	0%	

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All holding time criteria were met except for the following.

Sample ID	Date Collected	Date Extracted	# Days	Qualifier
3RE2	03/13/23	04/26/23	44	J/UJ

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) in the continuing calibration (CCAL). A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
05/04/23	4:2 FTS	36.4%	None	See HT

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
EB-03132023	None - ND	-	-	-
EB-03162023	None - ND	-	-	-

Surrogate Spike Recoveries

- Several samples exhibited low surrogate percent recoveries (%R) for several surrogate compounds. All associated compounds were qualified (UJ) in the samples. Please refer to the surrogate summaries on the Form Is for specific recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
7	NEtFOSAA	169%/OK/OK	None - Sample ND
	NMeFOSAA	OK/155%/OK	None - Sample ND

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited several compounds with the ion transition ratio outside QC limits and were flagged (I) by the laboratory. These results were qualified as estimated (J).
- EDS Sample 3 was reanalyzed three times to confirm low surrogate recoveries with similar results. EDS Sample 3RE2 was analyzed outside of holding times. Use the results from Sample 3RE1 as it has the highest concentrations with minimal qualification.

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision was acceptable.

Compound	GWS-2-03132023 ng/L	GWS-902-03132023 ng/L	RPD	Qualifier
PFBA	150	160	6%	None
PFPeA	100	79	23%	
PFHxA	73	72	1%	
PFHpA	18	22	20%	
PFOA	44	49	11%	
PFNA	3.1	3.1	0%	
PFDA	2.1U	1.3	NC	
PFBS	12	14	15%	
PFPeS	3.3	3.3	0%	
PFHxS	6.3	6.5	3%	
PFHpS	2.1U	0.45	NC	
PFOS	28	28	0%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/1/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: TB-03132023 | Lab Sample ID: 480-207038-1

Matrix: Water | Lab File ID: N5002.d

Analysis Method: 8260C | Date Collected: 03/13/2023 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 13:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	2.0		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: TB-03132023 | Lab Sample ID: 480-207038-1

Matrix: Water | Lab File ID: N5002.d

Analysis Method: 8260C | Date Collected: 03/13/2023 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 13:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-3-03132023 | Lab Sample ID: 480-207038-2

Matrix: Water | Lab File ID: N5003.d

Analysis Method: 8260C | Date Collected: 03/13/2023 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 13:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	1.5	J	10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	6.8	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-3-03132023 | Lab Sample ID: 480-207038-2

Matrix: Water | Lab File ID: N5003.d

Analysis Method: 8260C | Date Collected: 03/13/2023 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 13:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	0.72	J	1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 | Lab Sample ID: 480-207038-3

Matrix: Water | Lab File ID: N5004.d

Analysis Method: 8260C | Date Collected: 03/13/2023 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 14:01

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	3.8
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	3.9
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
99-87-6	4-Isopropyltoluene	ND		5.0	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	ND		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	91		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 | Lab Sample ID: 480-207038-3

Matrix: Water | Lab File ID: N5004.d

Analysis Method: 8260C | Date Collected: 03/13/2023 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 14:01

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		5.0	0.90
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0
179601-23-1	m,p-Xylene	ND		10	3.3
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
91-20-3	Naphthalene	ND		5.0	2.2
104-51-8	n-Butylbenzene	ND		5.0	3.2
103-65-1	N-Propylbenzene	ND		5.0	3.5
95-47-6	o-Xylene	ND		5.0	3.8
135-98-8	sec-Butylbenzene	ND		5.0	3.8
100-42-5	Styrene	ND		5.0	3.7
98-06-6	tert-Butylbenzene	ND		5.0	4.1
127-18-4	Tetrachloroethene	220		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	21		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	16		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-902-03132023 | Lab Sample ID: 480-207038-4

Matrix: Water | Lab File ID: N5005.d

Analysis Method: 8260C | Date Collected: 03/13/2023 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 14:25

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	3.8
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	3.9
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
99-87-6	4-Isopropyltoluene	ND		5.0	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	ND		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	99		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-902-03132023 | Lab Sample ID: 480-207038-4

Matrix: Water | Lab File ID: N5005.d

Analysis Method: 8260C | Date Collected: 03/13/2023 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 14:25

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		5.0	0.90
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0
179601-23-1	m,p-Xylene	ND		10	3.3
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
91-20-3	Naphthalene	ND		5.0	2.2
104-51-8	n-Butylbenzene	ND		5.0	3.2
103-65-1	N-Propylbenzene	ND		5.0	3.5
95-47-6	o-Xylene	ND		5.0	3.8
135-98-8	sec-Butylbenzene	ND		5.0	3.8
100-42-5	Styrene	ND		5.0	3.7
98-06-6	tert-Butylbenzene	ND		5.0	4.1
127-18-4	Tetrachloroethene	220		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	23		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	16		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-4-03132023 | Lab Sample ID: 480-207038-5

Matrix: Water | Lab File ID: N5006.d

Analysis Method: 8260C | Date Collected: 03/13/2023 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 14:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-4-03132023 | Lab Sample ID: 480-207038-5

Matrix: Water | Lab File ID: N5006.d

Analysis Method: 8260C | Date Collected: 03/13/2023 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 14:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: EB-03132023 | Lab Sample ID: 480-207038-6

Matrix: Water | Lab File ID: N5007.d

Analysis Method: 8260C | Date Collected: 03/13/2023 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 15:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	1.9		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: EB-03132023 | Lab Sample ID: 480-207038-6

Matrix: Water | Lab File ID: N5007.d

Analysis Method: 8260C | Date Collected: 03/13/2023 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 15:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-5-03132023 | Lab Sample ID: 480-207038-7

Matrix: Water | Lab File ID: N5008.d

Analysis Method: 8260C | Date Collected: 03/13/2023 13:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 15:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.62
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.8	J	10	3.0
71-43-2	Benzene	0.64	J	1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	14		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-5-03132023 | Lab Sample ID: 480-207038-7

Matrix: Water | Lab File ID: N5008.d

Analysis Method: 8260C | Date Collected: 03/13/2023 13:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 15:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.36	J	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.55	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	17		1.0	0.36
108-88-3	Toluene	1.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	1.7		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-6-03132023 | Lab Sample ID: 480-207038-8

Matrix: Water | Lab File ID: N5009.d

Analysis Method: 8260C | Date Collected: 03/13/2023 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 15:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	6.5	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.22	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-6-03132023 | Lab Sample ID: 480-207038-8

Matrix: Water | Lab File ID: N5009.d

Analysis Method: 8260C | Date Collected: 03/13/2023 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 15:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.35	J	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.37	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

9

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-7-03132023 | Lab Sample ID: 480-207038-9

Matrix: Water | Lab File ID: N5010.d

Analysis Method: 8260C | Date Collected: 03/13/2023 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 16:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	6.0	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.21	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-7-03132023 | Lab Sample ID: 480-207038-9

Matrix: Water | Lab File ID: N5010.d

Analysis Method: 8260C | Date Collected: 03/13/2023 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 16:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-8-03132023 | Lab Sample ID: 480-207038-10

Matrix: Water | Lab File ID: N5011.d

Analysis Method: 8260C | Date Collected: 03/13/2023 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 16:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.3	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.26	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-8-03132023 | Lab Sample ID: 480-207038-10

Matrix: Water | Lab File ID: N5011.d

Analysis Method: 8260C | Date Collected: 03/13/2023 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 16:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-1-03162023 | Lab Sample ID: 480-207038-11

Matrix: Water | Lab File ID: N5012.d

Analysis Method: 8260C | Date Collected: 03/16/2023 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 17:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	0.58	J	1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	2.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Buffalo | Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-1-03162023 | Lab Sample ID: 480-207038-11

Matrix: Water | Lab File ID: N5012.d

Analysis Method: 8260C | Date Collected: 03/16/2023 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 03/21/2023 17:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 662169 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.23	J	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	0.25	J	1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	3.8		1.0	0.36
108-88-3	Toluene	0.60	J	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	87		80-120

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-3-03132023 Lab Sample ID: 480-207038-2

Matrix: Water Lab File ID: 23APR13-85.d

Analysis Method: 1633 Date Collected: 03/13/2023 10:30

Extraction Method: 1633 Date Extracted: 03/30/2023 16:59

Sample wt/vol: 492.8(mL) Date Analyzed: 04/14/2023 07:13

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	25		8.1	2.0
2706-90-3	Perfluoropentanoic acid	43	~~J~~ J	4.1	1.0
307-24-4	Perfluorohexanoic acid	23		2.0	0.51
375-85-9	Perfluoroheptanoic acid	2.0		2.0	0.53
335-67-1	Perfluorooctanoic acid	4.4		2.0	0.65
375-95-1	Perfluorononanoic acid	ND		2.0	0.51
335-76-2	Perfluorodecanoic acid	ND		2.0	0.51
2058-94-8	Perfluoroundecanoic acid	ND		2.0	0.51
307-55-1	Perfluorododecanoic acid	ND		2.0	0.51
72629-94-8	Perfluorotridecanoic acid	ND		2.0	0.51
376-06-7	Perfluorotetradecanoic acid	ND		2.0	0.51
375-73-5	Perfluorobutanesulfonic acid	11		2.0	0.30
2706-91-4	Perfluoropentanesulfonic acid	0.99	~~J~~ J	2.0	0.51
355-46-4	Perfluorohexanesulfonic acid	1.9	J	2.0	0.58
375-92-8	Perfluoroheptanesulfonic acid	ND		2.0	0.41
1763-23-1	Perfluorooctanesulfonic acid	15		2.0	0.51
68259-12-1	Perfluorononanesulfonic acid	ND		2.0	0.41
335-77-3	Perfluorodecanesulfonic acid	ND		2.0	0.51
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.91
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.1	1.7
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.1	2.5
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.1	2.6
754-91-6	Perfluorooctanesulfonamide	ND		2.0	0.51
31506-32-8	NMeFOSA	ND		2.0	0.51
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.51
2355-31-9	NMeFOSAA	ND		4.1	1.2
2991-50-6	NEtFOSAA	ND		2.0	0.71
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-3-03132023
Lab Sample ID: 480-207038-2

Matrix: Water
Lab File ID: 23APR13-85.d

Analysis Method: 1633
Date Collected: 03/13/2023 10:30

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 492.8(mL)
Date Analyzed: 04/14/2023 07:13

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1
13252-13-6	HFPO-DA	ND		8.1	2.0
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.1	1.5
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.1	0.51
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.1	1.0
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.1	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.1	1.0
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.1	2.0
113507-82-7	PFEESA	ND		4.1	0.51
356-02-5	3:3 FTCA	ND		10	1.5
914637-49-3	5:3 FTCA	ND		51	10
812-70-4	7:3 FTCA	ND		51	10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023
Lab Sample ID: 480-207038-3

Matrix: Water
Lab File ID: 23APR13-86.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/14/2023 07:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

use reanalysis

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	140		8.6	2.1
2706-90-3	Perfluoropentanoic acid	73		4.3	1.1
307-24-4	Perfluorohexanoic acid	66		2.1	0.54
375-85-9	Perfluoroheptanoic acid	17		2.1	0.56
335-67-1	Perfluorooctanoic acid	47		2.1	0.69
375-95-1	Perfluorononanoic acid	3.0		2.1	0.54
335-76-2	Perfluorodecanoic acid	1.4	J	2.1	0.54
2058-94-8	Perfluoroundecanoic acid	ND		2.1	0.54
307-55-1	Perfluorododecanoic acid	ND		2.1	0.54
72629-94-8	Perfluorotridecanoic acid	ND		2.1	0.54
376-06-7	Perfluorotetradecanoic acid	ND		2.1	0.54
375-73-5	Perfluorobutanesulfonic acid	11		2.1	0.32
2706-91-4	Perfluoropentanesulfonic acid	2.6		2.1	0.54
355-46-4	Perfluorohexanesulfonic acid	5.7		2.1	0.61
375-92-8	Perfluoroheptanesulfonic acid	ND		2.1	0.43
1763-23-1	Perfluorooctanesulfonic acid	29		2.1	0.54
68259-12-1	Perfluorononanesulfonic acid	ND		2.1	0.43
335-77-3	Perfluorodecanesulfonic acid	ND		2.1	0.54
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	0.97
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.6	1.8
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.6	2.7
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.6	2.8
754-91-6	Perfluorooctanesulfonamide	ND		2.1	0.54
31506-32-8	*NMeFOSA*	*ND*		*2.1*	*0.54*
4151-50-2	*N-ethylperfluoro-1-octanesulfonamide*	~~ND~~	UJ	*2.1*	*0.54*
2355-31-9	NMeFOSAA	ND		4.3	1.3
2991-50-6	NEtFOSAA	ND		2.1	0.75
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	~~ND~~	UJ	21	5.4

NS 5/3/23

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023
Lab Sample ID: 480-207038-3

Matrix: Water
Lab File ID: 23APR13-86.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/14/2023 07:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

use reanalysis

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	UJ	21	5.4
13252-13-6	HFPO-DA	ND		8.6	2.1
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.6	1.6
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.3	0.54
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.3	1.1
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.3	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.6	1.1
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.6	2.1
113507-82-7	PFEESA	ND		4.3	0.54
356-02-5	3:3 FTCA	ND		11	1.6
914637-49-3	5:3 FTCA	ND		54	11
812-70-4	7:3 FTCA	ND		54	11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023
Lab Sample ID: 480-207038-3

Matrix: Water
Lab File ID: 23APR13-86.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/14/2023 07:26

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

use reanalysis

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	79.3		20-150
STL01893	13C5 PFPeA	93.8		20-150
STL02577	13C5 PFHxA	67.7		20-150
STL01892	13C4 PFHpA	70.1		20-150
STL01052	13C8 PFOA	72.5		20-150
STL02578	13C9 PFNA	71.0		20-150
STL02579	13C6 PFDA	68.4		20-150
STL02580	13C7 PFUnA	45.5		20-150
STL02703	13C2-PFDoDA	34.3		20-150
STL02116	13C2 PFTeDA	22.8		20-150
STL02337	13C3 PFBS	105		20-150
STL02581	13C3 PFHxS	88.0		20-150
STL01054	13C8 PFOS	69.9		20-150
STL01056	13C8 FOSA	62.5		20-150
STL02118	d3-NMeFOSAA	58.1		20-150
STL02117	d5-NEtFOSAA	51.9		20-150
STL02395	M2-4:2 FTS	112		20-150
STL02279	M2-6:2 FTS	88.7		20-150
STL02280	M2-8:2 FTS	76.0		20-150
STL02255	13C3 HFPO-DA	66.1		20-150
STL02277	d7-N-MeFOSE-M	21.2		20-150
STL02278	d9-N-EtFOSE-M	18.5	*	20-150
STL02704	d5-NEtPFOSA	11.3	*	20-150
STL02705	d3-NMePFOSA	16.6	*	20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3RE1

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 RA
Lab Sample ID: 480-207038-3 RA

Matrix: Water
Lab File ID: 23APR23-25.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/23/2023 21:23

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture:
% Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 367511
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	150		8.6	2.1
2706-90-3	Perfluoropentanoic acid	100		4.3	1.1
307-24-4	Perfluorohexanoic acid	73		2.1	0.54
375-85-9	Perfluoroheptanoic acid	18		2.1	0.56
335-67-1	Perfluorooctanoic acid	44		2.1	0.69
375-95-1	Perfluorononanoic acid	3.1		2.1	0.54
335-76-2	Perfluorodecanoic acid	ND		2.1	0.54
2058-94-8	Perfluoroundecanoic acid	ND		2.1	0.54
307-55-1	Perfluorododecanoic acid	ND		2.1	0.54
72629-94-8	Perfluorotridecanoic acid	ND		2.1	0.54
376-06-7	Perfluorotetradecanoic acid	ND		2.1	0.54
375-73-5	Perfluorobutanesulfonic acid	12		2.1	0.32
2706-91-4	Perfluoropentanesulfonic acid	3.3		2.1	0.54
355-46-4	Perfluorohexanesulfonic acid	6.3		2.1	0.61
375-92-8	Perfluoroheptanesulfonic acid	ND		2.1	0.43
1763-23-1	Perfluorooctanesulfonic acid	28		2.1	0.54
68259-12-1	Perfluorononanesulfonic acid	ND		2.1	0.43
335-77-3	Perfluorodecanesulfonic acid	ND		2.1	0.54
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	0.97
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.6	1.8
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.6	2.7
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.6	2.8
754-91-6	Perfluorooctanesulfonamide	ND		2.1	0.54
31506-32-8	NMeFOSA	ND		2.1	0.54
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND	UJ	2.1	0.54
2355-31-9	NMeFOSAA	ND		4.3	1.3
2991-50-6	NEtFOSAA	ND		2.1	0.75
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	UJ	21	5.4

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3RE1

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 RA
Lab Sample ID: 480-207038-3 RA

Matrix: Water
Lab File ID: 23APR23-25.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/23/2023 21:23

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 367511
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	~~ND~~	UJ	21	5.4
13252-13-6	HFPO-DA	ND		8.6	2.1
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.6	1.6
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.3	0.54
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.3	1.1
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.3	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.6	1.1
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.6	2.1
113507-82-7	PFEESA	ND		4.3	0.54
356-02-5	3:3 FTCA	ND		11	1.6
914637-49-3	5:3 FTCA	ND		54	11
812-70-4	7:3 FTCA	ND		54	11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3RE1

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 RA
Lab Sample ID: 480-207038-3 RA

Matrix: Water
Lab File ID: 23APR23-25.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/23/2023 21:23

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 367511
Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	73.8		20-150
STL01893	13C5 PFPeA	85.6		20-150
STL02577	13C5 PFHxA	72.6		20-150
STL01892	13C4 PFHpA	65.7		20-150
STL01052	13C8 PFOA	92.8		20-150
STL02578	13C9 PFNA	73.2		20-150
STL02579	13C6 PFDA	67.2		20-150
STL02580	13C7 PFUnA	46.3		20-150
STL02703	13C2-PFDoDA	35.5		20-150
STL02116	13C2 PFTeDA	23.3		20-150
STL02337	13C3 PFBS	92.8		20-150
STL02581	13C3 PFHxS	80.8		20-150
STL01054	13C8 PFOS	76.3		20-150
STL01056	13C8 FOSA	76.2		20-150
STL02118	d3-NMeFOSAA	51.9		20-150
STL02117	d5-NEtFOSAA	51.5		20-150
STL02395	M2-4:2 FTS	106		20-150
STL02279	M2-6:2 FTS	113		20-150
STL02280	M2-8:2 FTS	89.5		20-150
STL02255	13C3 HFPO-DA	71.1		20-150
STL02277	d7-N-MeFOSE-M	23.6		20-150
STL02278	d9-N-EtFOSE-M	19.9	*F-	20-150
STL02704	d5-NEtPFOSA	12.4	*F-	20-150
STL02705	d3-NMePFOSA	19.6	*F-	20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3RE2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 RE
Lab Sample ID: 480-207038-3 RE

Matrix: Water
Lab File ID: 23MAY04-56.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 04/26/2023 17:29

Sample wt/vol: 5(mL)
Date Analyzed: 05/04/2023 21:30

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

use reanalysis 3RE1

Cleanup Factor:

Analysis Batch No.: 372076
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND	H	800	200
2706-90-3	Perfluoropentanoic acid	ND	H	400	100
307-24-4	Perfluorohexanoic acid	ND	H	200	50
375-85-9	Perfluoroheptanoic acid	ND	H	200	52
335-67-1	Perfluorooctanoic acid	160	J H	200	64
375-95-1	Perfluorononanoic acid	ND	H	200	50
335-76-2	Perfluorodecanoic acid	ND	H	200	50
2058-94-8	Perfluoroundecanoic acid	ND	H	200	50
307-55-1	Perfluorododecanoic acid	ND	H	200	50
72629-94-8	Perfluorotridecanoic acid	ND	H	200	50
376-06-7	Perfluorotetradecanoic acid	ND	H	200	50
375-73-5	Perfluorobutanesulfonic acid	ND	H	200	30
2706-91-4	Perfluoropentanesulfonic acid	ND	H	200	50
355-46-4	Perfluorohexanesulfonic acid	ND	H	200	57
375-92-8	Perfluoroheptanesulfonic acid	ND	H	200	40
1763-23-1	Perfluorooctanesulfonic acid	ND	H	200	50
68259-12-1	Perfluorononanesulfonic acid	ND	H	200	40
335-77-3	Perfluorodecanesulfonic acid	ND	H	200	50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	H	200	90
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND	H	800	170
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND	H	800	250
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND	H	800	260
754-91-6	Perfluorooctanesulfonamide	ND	H	200	50
31506-32-8	NMeFOSA	ND	H	200	50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND	H	200	50
2355-31-9	NMeFOSAA	ND	H	400	120
2991-50-6	NEtFOSAA	ND	H	200	70
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND	H	2000	500

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3RE2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 RE
Lab Sample ID: 480-207038-3 RE

Matrix: Water
Lab File ID: 23MAY04-56.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 04/26/2023 17:29

Sample wt/vol: 5(mL)
Date Analyzed: 05/04/2023 21:30

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Use reanalysis 3RE1

Cleanup Factor:

Analysis Batch No.: 372076
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND	H UJ	2000	500
13252-13-6	HFPO-DA	ND	H	800	200
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	H	800	150
377-73-1	Perfluoro-3-methoxypropanoic acid	ND	H	400	50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND	H	400	100
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND	H	400	100
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	H	800	100
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	H	800	200
113507-82-7	PFEESA	ND	H	400	50
356-02-5	3:3 FTCA	ND	H	1000	150
914637-49-3	5:3 FTCA	ND	H	5000	1000
812-70-4	7:3 FTCA	ND	H	5000	1000

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

30L

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 DL
Lab Sample ID: 480-207038-3 DL

Matrix: Water
Lab File ID: 23APR23-26.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/23/2023 21:36

Con. Extract Vol.: 5(mL)
Dilution Factor: 10

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

use 3R21

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 367511
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	130		86	21
2706-90-3	Perfluoropentanoic acid	ND		43	11
307-24-4	Perfluorohexanoic acid	76	~~Y~~ J	21	5.4
375-85-9	Perfluoroheptanoic acid	20	J	21	5.6
335-67-1	Perfluorooctanoic acid	41		21	6.9
375-95-1	Perfluorononanoic acid	ND		21	5.4
335-76-2	Perfluorodecanoic acid	ND		21	5.4
2058-94-8	Perfluoroundecanoic acid	ND		21	5.4
307-55-1	Perfluorododecanoic acid	ND		21	5.4
72629-94-8	Perfluorotridecanoic acid	ND		21	5.4
376-06-7	Perfluorotetradecanoic acid	ND		21	5.4
375-73-5	Perfluorobutanesulfonic acid	12	~~J~~ J	21	3.2
2706-91-4	Perfluoropentanesulfonic acid	ND		21	5.4
355-46-4	Perfluorohexanesulfonic acid	ND		21	6.1
375-92-8	Perfluoroheptanesulfonic acid	ND		21	4.3
1763-23-1	Perfluorooctanesulfonic acid	26		21	5.4
68259-12-1	Perfluorononanesulfonic acid	ND		21	4.3
335-77-3	Perfluorodecanesulfonic acid	ND		21	5.4
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		21	9.7
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		86	18
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		86	27
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		86	28
754-91-6	Perfluorooctanesulfonamide	ND		21	5.4
31506-32-8	NMeFOSA	ND		21	5.4
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	~~ND~~	~~UJ~~	21	5.4
2355-31-9	NMeFOSAA	ND		43	13
2991-50-6	NEtFOSAA	ND		21	7.5
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	~~ND~~	~~UJ~~	210	54

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3DL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 DL
Lab Sample ID: 480-207038-3 DL

Matrix: Water
Lab File ID: 23APR23-26.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/23/2023 21:36

Con. Extract Vol.: 5(mL)
Dilution Factor: 10

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

use 3RE1

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 367511
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		210	54
13252-13-6	HFPO-DA	ND		86	21
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		86	16
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		43	5.4
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		43	11
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		43	11
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		86	11
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		86	21
113507-82-7	PFEESA	ND		43	5.4
356-02-5	3:3 FTCA	ND		110	16
914637-49-3	5:3 FTCA	ND		540	110
812-70-4	7:3 FTCA	ND		540	110

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3DL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-2-03132023 DL
Lab Sample ID: 480-207038-3 DL

Matrix: Water
Lab File ID: 23APR23-26.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:20

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 466(mL)
Date Analyzed: 04/23/2023 21:36

Con. Extract Vol.: 5(mL)
Dilution Factor: 10

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

use 3RE1

Cleanup Factor:

Analysis Batch No.: 367511
Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	82.7		20-150
STL01893	13C5 PFPeA	77.0		20-150
STL02577	13C5 PFHxA	77.3		20-150
STL01892	13C4 PFHpA	62.4		20-150
STL01052	13C8 PFOA	99.4		20-150
STL02578	13C9 PFNA	74.7		20-150
STL02579	13C6 PFDA	70.8		20-150
STL02580	13C7 PFUnA	51.4		20-150
STL02703	13C2-PFDoDA	40.8		20-150
STL02116	13C2 PFTeDA	27.7		20-150
STL02337	13C3 PFBS	87.3		20-150
STL02581	13C3 PFHxS	88.0		20-150
STL01054	13C8 PFOS	80.7		20-150
STL01056	13C8 FOSA	72.3		20-150
STL02118	d3-NMeFOSAA	62.5		20-150
STL02117	d5-NEtFOSAA	51.6		20-150
STL02395	M2-4:2 FTS	80.4		20-150
STL02279	M2-6:2 FTS	79.7		20-150
STL02280	M2-8:2 FTS	72.9		20-150
STL02255	13C3 HFPO-DA	78.5		20-150
STL02277	d7-N-MeFOSE-M	22.6		20-150
STL02278	d9-N-EtFOSE-M	21.7		20-150
STL02704	d5-NEtPFOSA	15.3	~~J~~	20-150
STL02705	d3-NMePFOSA	17.9	~~J~~	20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-902-03132023
Lab Sample ID: 480-207038-4

Matrix: Water
Lab File ID: 23APR13-87.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:25

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 486.6(mL)
Date Analyzed: 04/14/2023 07:39

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	160		8.2	2.1
2706-90-3	Perfluoropentanoic acid	79		4.1	1.0
307-24-4	Perfluorohexanoic acid	72		2.1	0.51
375-85-9	Perfluoroheptanoic acid	22		2.1	0.53
335-67-1	Perfluorooctanoic acid	49		2.1	0.66
375-95-1	Perfluorononanoic acid	3.1		2.1	0.51
335-76-2	Perfluorodecanoic acid	1.3	J	2.1	0.51
2058-94-8	Perfluoroundecanoic acid	ND		2.1	0.51
307-55-1	Perfluorododecanoic acid	ND		2.1	0.51
72629-94-8	Perfluorotridecanoic acid	ND		2.1	0.51
376-06-7	Perfluorotetradecanoic acid	ND		2.1	0.51
375-73-5	Perfluorobutanesulfonic acid	14		2.1	0.31
2706-91-4	Perfluoropentanesulfonic acid	3.3		2.1	0.51
355-46-4	Perfluorohexanesulfonic acid	6.5		2.1	0.59
375-92-8	Perfluoroheptanesulfonic acid	0.45	J	2.1	0.41
1763-23-1	Perfluorooctanesulfonic acid	28		2.1	0.51
68259-12-1	Perfluorononanesulfonic acid	ND		2.1	0.41
335-77-3	Perfluorodecanesulfonic acid	ND		2.1	0.51
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.1	0.92
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.2	1.7
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.2	2.6
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.2	2.7
754-91-6	Perfluorooctanesulfonamide	ND		2.1	0.51
31506-32-8	NMeFOSA	ND		2.1	0.51
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		2.1	0.51
2355-31-9	NMeFOSAA	ND		4.1	1.2
2991-50-6	NEtFOSAA	ND		2.1	0.72
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.1

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-902-03132023
Lab Sample ID: 480-207038-4

Matrix: Water
Lab File ID: 23APR13-87.d

Analysis Method: 1633
Date Collected: 03/13/2023 11:25

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 486.6(mL)
Date Analyzed: 04/14/2023 07:39

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture:
% Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		21	5.1
13252-13-6	HFPO-DA	ND		8.2	2.1
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.2	1.5
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.1	0.51
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.1	1.0
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.1	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.2	1.0
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.2	2.1
113507-82-7	PFEESA	ND		4.1	0.51
356-02-5	3:3 FTCA	ND		10	1.5
914637-49-3	5:3 FTCA	ND		51	10
812-70-4	7:3 FTCA	ND		51	10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-4-03132023
Lab Sample ID: 480-207038-5

Matrix: Water
Lab File ID: 23APR13-88.d

Analysis Method: 1633
Date Collected: 03/13/2023 12:00

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 514.1(mL)
Date Analyzed: 04/14/2023 07:52

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	7.9		7.8	1.9
2706-90-3	Perfluoropentanoic acid	ND		3.9	0.97
307-24-4	Perfluorohexanoic acid	1.9		1.9	0.49
375-85-9	Perfluoroheptanoic acid	1.0	J	1.9	0.51
335-67-1	Perfluorooctanoic acid	4.0		1.9	0.62
375-95-1	Perfluorononanoic acid	ND		1.9	0.49
335-76-2	Perfluorodecanoic acid	ND		1.9	0.49
2058-94-8	Perfluoroundecanoic acid	ND		1.9	0.49
307-55-1	Perfluorododecanoic acid	ND		1.9	0.49
72629-94-8	Perfluorotridecanoic acid	ND		1.9	0.49
376-06-7	Perfluorotetradecanoic acid	ND		1.9	0.49
375-73-5	Perfluorobutanesulfonic acid	2.3		1.9	0.29
2706-91-4	Perfluoropentanesulfonic acid	ND		1.9	0.49
355-46-4	Perfluorohexanesulfonic acid	ND		1.9	0.55
375-92-8	Perfluoroheptanesulfonic acid	ND		1.9	0.39
1763-23-1	Perfluorooctanesulfonic acid	10		1.9	0.49
68259-12-1	Perfluorononanesulfonic acid	ND		1.9	0.39
335-77-3	Perfluorodecanesulfonic acid	ND		1.9	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.88
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.8	1.7
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.8	2.4
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.8	2.5
754-91-6	Perfluorooctanesulfonamide	ND		1.9	0.49
31506-32-8	NMeFOSA	ND		1.9	0.49
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.49
2355-31-9	NMeFOSAA	ND		3.9	1.2
2991-50-6	NEtFOSAA	ND		1.9	0.68
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.9

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-4-03132023
Lab Sample ID: 480-207038-5

Matrix: Water
Lab File ID: 23APR13-88.d

Analysis Method: 1633
Date Collected: 03/13/2023 12:00

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 514.1(mL)
Date Analyzed: 04/14/2023 07:52

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.9
13252-13-6	HFPO-DA	ND		7.8	1.9
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.8	1.5
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.9	0.49
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.9	0.97
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.9	0.97
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.8	0.97
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.8	1.9
113507-82-7	PFESA	ND		3.9	0.49
356-02-5	3:3 FTCA	ND		9.7	1.5
914637-49-3	5:3 FTCA	ND		49	9.7
812-70-4	7:3 FTCA	ND		49	9.7

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: EB-03132023
Lab Sample ID: 480-207038-6

Matrix: Water
Lab File ID: 23APR13-89.d

Analysis Method: 1633
Date Collected: 03/13/2023 12:30

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 555.4(mL)
Date Analyzed: 04/14/2023 08:06

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture:
% Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		7.2	1.8
2706-90-3	Perfluoropentanoic acid	ND		3.6	0.90
307-24-4	Perfluorohexanoic acid	ND		1.8	0.45
375-85-9	Perfluoroheptanoic acid	ND		1.8	0.47
335-67-1	Perfluorooctanoic acid	ND		1.8	0.58
375-95-1	Perfluorononanoic acid	ND		1.8	0.45
335-76-2	Perfluorodecanoic acid	ND		1.8	0.45
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid	ND		1.8	0.27
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.51
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.36
1763-23-1	Perfluorooctanesulfonic acid	ND		1.8	0.45
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.36
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.45
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.81
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.2	1.5
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.2	2.3
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.2	2.3
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.45
31506-32-8	NMeFOSA	ND		1.8	0.45
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.45
2355-31-9	NMeFOSAA	ND		3.6	1.1
2991-50-6	NEtFOSAA	ND		1.8	0.63
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.5

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: EB-03132023
Lab Sample ID: 480-207038-6

Matrix: Water
Lab File ID: 23APR13-89.d

Analysis Method: 1633
Date Collected: 03/13/2023 12:30

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 555.4(mL)
Date Analyzed: 04/14/2023 08:06

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture:
% Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.5
13252-13-6	HFPO-DA	ND		7.2	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.4
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.6	0.45
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.6	0.90
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.6	0.90
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.2	0.90
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.2	1.8
113507-82-7	PFEESA	ND		3.6	0.45
356-02-5	3:3 FTCA	ND		9.0	1.4
914637-49-3	5:3 FTCA	ND		45	9.0
812-70-4	7:3 FTCA	ND		45	9.0

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-5-03132023
Lab Sample ID: 480-207038-7

Matrix: Water
Lab File ID: 23APR25-25.d

Analysis Method: 1633
Date Collected: 03/13/2023 13:30

Extraction Method: 1633
Date Extracted: 04/05/2023 17:22

Sample wt/vol: 451.7(mL)
Date Analyzed: 04/25/2023 17:09

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 368303
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	14		8.9	2.2
2706-90-3	Perfluoropentanoic acid	16		4.4	1.1
307-24-4	Perfluorohexanoic acid	11		2.2	0.55
375-85-9	Perfluoroheptanoic acid	5.3		2.2	0.58
335-67-1	Perfluorooctanoic acid	12		2.2	0.71
375-95-1	Perfluorononanoic acid	1.6	J	2.2	0.55
335-76-2	Perfluorodecanoic acid	ND		2.2	0.55
2058-94-8	Perfluoroundecanoic acid	ND		2.2	0.55
307-55-1	Perfluorododecanoic acid	ND		2.2	0.55
72629-94-8	Perfluorotridecanoic acid	ND		2.2	0.55
376-06-7	Perfluorotetradecanoic acid	ND		2.2	0.55
375-73-5	Perfluorobutanesulfonic acid	2.8		2.2	0.33
2706-91-4	Perfluoropentanesulfonic acid	ND		2.2	0.55
355-46-4	Perfluorohexanesulfonic acid	0.68	J	2.2	0.63
375-92-8	Perfluoroheptanesulfonic acid	ND		2.2	0.44
1763-23-1	Perfluorooctanesulfonic acid	2.1	J	2.2	0.55
68259-12-1	Perfluorononanesulfonic acid	ND		2.2	0.44
335-77-3	Perfluorodecanesulfonic acid	ND		2.2	0.55
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.2	1.0
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.9	1.9
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.9	2.8
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.9	2.9
754-91-6	Perfluorooctanesulfonamide	ND		2.2	0.55
31506-32-8	NMeFOSA	ND		2.2	0.55
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		2.2	0.55
2355-31-9	NMeFOSAA	ND	F1	4.4	1.3
2991-50-6	NEtFOSAA	ND	F1	2.2	0.77
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		22	5.5

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-5-03132023
Lab Sample ID: 480-207038-7

Matrix: Water
Lab File ID: 23APR25-25.d

Analysis Method: 1633
Date Collected: 03/13/2023 13:30

Extraction Method: 1633
Date Extracted: 04/05/2023 17:22

Sample wt/vol: 451.7(mL)
Date Analyzed: 04/25/2023 17:09

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 368303
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		22	5.5
13252-13-6	HFPO-DA	ND		8.9	2.2
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.9	1.7
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.4	0.55
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.4	1.1
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.4	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.9	1.1
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.9	2.2
113507-82-7	PFEESA	ND		4.4	0.55
356-02-5	3:3 FTCA	ND		11	1.7
914637-49-3	5:3 FTCA	ND		55	11
812-70-4	7:3 FTCA	ND		55	11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-6-03132023
Lab Sample ID: 480-207038-8

Matrix: Water
Lab File ID: 23APR13-90.d

Analysis Method: 1633
Date Collected: 03/13/2023 14:15

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 493.6(mL)
Date Analyzed: 04/14/2023 08:19

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	62		8.1	2.0
2706-90-3	Perfluoropentanoic acid	ND		4.1	1.0
307-24-4	Perfluorohexanoic acid	ND		2.0	0.51
375-85-9	Perfluoroheptanoic acid	ND		2.0	0.53
335-67-1	Perfluorooctanoic acid	2.2		2.0	0.65
375-95-1	Perfluorononanoic acid	ND		2.0	0.51
335-76-2	Perfluorodecanoic acid	ND		2.0	0.51
2058-94-8	Perfluoroundecanoic acid	ND		2.0	0.51
307-55-1	Perfluorododecanoic acid	ND		2.0	0.51
72629-94-8	Perfluorotridecanoic acid	ND		2.0	0.51
376-06-7	Perfluorotetradecanoic acid	ND		2.0	0.51
375-73-5	Perfluorobutanesulfonic acid	7.4		2.0	0.30
2706-91-4	Perfluoropentanesulfonic acid	ND		2.0	0.51
355-46-4	Perfluorohexanesulfonic acid	ND		2.0	0.58
375-92-8	Perfluoroheptanesulfonic acid	ND		2.0	0.41
1763-23-1	Perfluorooctanesulfonic acid	ND		2.0	0.51
68259-12-1	Perfluorononanesulfonic acid	ND		2.0	0.41
335-77-3	Perfluorodecanesulfonic acid	ND		2.0	0.51
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.91
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		8.1	1.7
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		8.1	2.5
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		8.1	2.6
754-91-6	Perfluorooctanesulfonamide	ND		2.0	0.51
31506-32-8	NMeFOSA	ND		2.0	0.51
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		2.0	0.51
2355-31-9	NMeFOSAA	ND		4.1	1.2
2991-50-6	NEtFOSAA	ND		2.0	0.71
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-6-03132023
Lab Sample ID: 480-207038-8

Matrix: Water
Lab File ID: 23APR13-90.d

Analysis Method: 1633
Date Collected: 03/13/2023 14:15

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 493.6(mL)
Date Analyzed: 04/14/2023 08:19

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture:
% Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		20	5.1
13252-13-6	HFPO-DA	ND		8.1	2.0
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.1	1.5
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.1	0.51
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.1	1.0
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.1	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		8.1	1.0
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		8.1	2.0
113507-82-7	PFEESA	ND		4.1	0.51
356-02-5	3:3 FTCA	ND		10	1.5
914637-49-3	5:3 FTCA	ND		51	10
812-70-4	7:3 FTCA	ND		51	10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-1-03162023
Lab Sample ID: 480-207038-11

Matrix: Water
Lab File ID: 23APR13-93.d

Analysis Method: 1633
Date Collected: 03/16/2023 11:30

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 439.4(mL)
Date Analyzed: 04/14/2023 08:58

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	13		9.1	2.3
2706-90-3	Perfluoropentanoic acid	18	J	4.6	1.1
307-24-4	Perfluorohexanoic acid	17		2.3	0.57
375-85-9	Perfluoroheptanoic acid	5.2		2.3	0.59
335-67-1	Perfluorooctanoic acid	15		2.3	0.73
375-95-1	Perfluorononanoic acid	5.7		2.3	0.57
335-76-2	Perfluorodecanoic acid	2.3		2.3	0.57
2058-94-8	Perfluoroundecanoic acid	ND		2.3	0.57
307-55-1	Perfluorododecanoic acid	ND		2.3	0.57
72629-94-8	Perfluorotridecanoic acid	ND		2.3	0.57
376-06-7	Perfluorotetradecanoic acid	ND		2.3	0.57
375-73-5	Perfluorobutanesulfonic acid	4.1		2.3	0.34
2706-91-4	Perfluoropentanesulfonic acid	ND		2.3	0.57
355-46-4	Perfluorohexanesulfonic acid	ND		2.3	0.65
375-92-8	Perfluoroheptanesulfonic acid	ND		2.3	0.46
1763-23-1	Perfluorooctanesulfonic acid	6.3		2.3	0.57
68259-12-1	Perfluorononanesulfonic acid	ND		2.3	0.46
335-77-3	Perfluorodecanesulfonic acid	ND		2.3	0.57
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.3	1.0
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		9.1	1.9
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		9.1	2.8
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		9.1	3.0
754-91-6	Perfluorooctanesulfonamide	ND		2.3	0.57
31506-32-8	NMeFOSA	ND		2.3	0.57
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		2.3	0.57
2355-31-9	NMeFOSAA	ND		4.6	1.4
2991-50-6	NEtFOSAA	ND		2.3	0.80
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		23	5.7

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: GWS-1-03162023
Lab Sample ID: 480-207038-11

Matrix: Water
Lab File ID: 23APR13-93.d

Analysis Method: 1633
Date Collected: 03/16/2023 11:30

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 439.4(mL)
Date Analyzed: 04/14/2023 08:58

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		23	5.7
13252-13-6	HFPO-DA	ND		9.1	2.3
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		9.1	1.7
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		4.6	0.57
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		4.6	1.1
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		4.6	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		9.1	1.1
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		9.1	2.3
113507-82-7	PFEESA	ND		4.6	0.57
356-02-5	3:3 FTCA	ND		11	1.7
914637-49-3	5:3 FTCA	ND		57	11
812-70-4	7:3 FTCA	ND		57	11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: EB-03162023
Lab Sample ID: 480-207038-12

Matrix: Water
Lab File ID: 23APR13-94.d

Analysis Method: 1633
Date Collected: 03/16/2023 12:00

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 549.4(mL)
Date Analyzed: 04/14/2023 09:11

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		7.3	1.8
2706-90-3	Perfluoropentanoic acid	ND		3.6	0.91
307-24-4	Perfluorohexanoic acid	ND		1.8	0.46
375-85-9	Perfluoroheptanoic acid	ND		1.8	0.47
335-67-1	Perfluorooctanoic acid	ND		1.8	0.58
375-95-1	Perfluorononanoic acid	ND		1.8	0.46
335-76-2	Perfluorodecanoic acid	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	ND		1.8	0.27
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.52
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.36
1763-23-1	Perfluorooctanesulfonic acid	ND		1.8	0.46
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.36
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.5
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
31506-32-8	NMeFOSA	ND		1.8	0.46
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46
2355-31-9	NMeFOSAA	ND		3.6	1.1
2991-50-6	NEtFOSAA	ND		1.8	0.64
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207038-1

SDG No.:

Client Sample ID: EB-03162023
Lab Sample ID: 480-207038-12

Matrix: Water
Lab File ID: 23APR13-94.d

Analysis Method: 1633
Date Collected: 03/16/2023 12:00

Extraction Method: 1633
Date Extracted: 03/30/2023 16:59

Sample wt/vol: 549.4(mL)
Date Analyzed: 04/14/2023 09:11

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 364073
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6
13252-13-6	HFPO-DA	ND		7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.6	0.46
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.6	0.91
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.6	0.91
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.91
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8
113507-82-7	PFEESA	ND		3.6	0.46
356-02-5	3:3 FTCA	ND		9.1	1.4
914637-49-3	5:3 FTCA	ND		46	9.1
812-70-4	7:3 FTCA	ND		46	9.1

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
SPEEDY's CLEANERS, PITTSFORD, NEW YORK

Client: CDM Smith, Latham, New York
SDG: 480-207486-1
Laboratory: Eurofins, Buffalo, New York
Site: Speedy's Cleaners, Pittsford, New York
Date: May 5, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	828109-MW-9-9-19-040323	480-207486-1	Water
2	828109-MW-10-3-8-040323	480-207486-2	Water
2MS*	828109-MW-10-3-8-040323MS	480-207486-2MS	Water
3	828109-MW-11-3-13-040323	480-207486-3	Water

* - Sulfide only

A Data Usability Summary Review (DUSR) was performed on the analytical data for three water samples collected on April 3, 2023 by CDM Smith at the Speedy's Cleaners site in Pittsford, New York. The samples were analyzed under the Methods for Chemical Analysis of Water and Wastes and the Standard Methods for Examination of Water and Wastewater.

Specific method references are as follows:

Analysis	*Method References*
Chloride	USEPA Method 300.0
Sulfate	USEPA Method 300.0
Nitrate as N	USEPA Method 353.2
Sulfide	Standard Method SM4500 S2 F
Alkalinity	Standard Method SM2320B
Total Organic Carbon	Standard Method SM5310C

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Inorganics

- Data Completeness
- Holding times and sample preservation
- Initial and continuing calibration verifications
- Method blank and field blank contamination
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Chloride, Sulfate, Nitrate, Sulfide, Alkalinity, Total Organic Carbon

Holding Times

- All samples were prepared and analyzed within the recommended holding time except for the following.

EDS Sample	Date Collected	Date Analyzed	# of Days	Qualifier
1-3	04/03/23	04/25/23	>48 Hours	J

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. mg/L	Qualifier	Affected Samples
480-664735/4	Alkalinity	1.76	None	None for Wet Chem

Field Blank

- Field QC samples were not collected.

Matrix Spike (MS) Recoveries

- The MS samples exhibited acceptable percent recoveries (%R).

Duplicate Sample Analysis

- The duplicate sample exhibited acceptable RPD values.

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

Compound Quantitation

- The samples were analyzed at various dilutions for chloride and sulfate due to high concentrations. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 5/7/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

1

Client Sample ID: 828109-MW-9-9-19-040323 Lab Sample ID: 480-207486-1

Lab Name: Eurofins Buffalo Job No.: 480-207486-1

SDG ID.:

Matrix: Water Date Sampled: 04/03/2023 15:25

Reporting Basis: WET Date Received: 04/04/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
16887-00-6	Chloride	1200	10.0	5.6	mg/L			20	300.0
14808-79-8	Sulfate	88.2	40.0	7.0	mg/L			20	300.0
14797-55-8	Nitrate as N	1.1	J 0.050	0.020	mg/L		H	1	353.2
	Alkalinity, Total	269	5.0	0.79	mg/L		~~H~~	1	SM 2320B
	Alkalinity, Bicarbonate	269	5.0	0.79	mg/L		~~H~~	1	SM 2320B
	Alkalinity, Carbonate	ND	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	ND	5.0	0.79	mg/L			1	SM 2320B
7440-44-0	Total Organic Carbon	1.3	1.0	0.43	mg/L			1	SM 5310C
	TOC Result 1	1.2	1.0	0.43	mg/L			1	SM 5310C
	TOC Result 2	1.4	1.0	0.43	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

2

Client Sample ID: 828109-MW-10-3-8-040323 Lab Sample ID: 480-207486-2

Lab Name: Eurofins Buffalo Job No.: 480-207486-1

SDG ID.:

Matrix: Water Date Sampled: 04/03/2023 12:05

Reporting Basis: WET Date Received: 04/04/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
16887-00-6	Chloride	266	2.5	1.4	mg/L			5	300.0
14808-79-8	Sulfate	105	10.0	1.7	mg/L			5	300.0
14797-55-8	Nitrate as N	9.0	J 0.050	0.020	mg/L		H	1	353.2
	Alkalinity, Total	227	5.0	0.79	mg/L		B, 2	1	SM 2320B
	Alkalinity, Bicarbonate	227	5.0	0.79	mg/L		B, 2	1	SM 2320B
	Alkalinity, Carbonate	ND	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	ND	5.0	0.79	mg/L			1	SM 2320B
7440-44-0	Total Organic Carbon	5.1	1.0	0.43	mg/L			1	SM 5310C
	TOC Result 1	5.1	1.0	0.43	mg/L			1	SM 5310C
	TOC Result 2	5.2	1.0	0.43	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

3

Client Sample ID: 828109-MW-11-3-13-040323 Lab Sample ID: 480-207486-3

Lab Name: Eurofins Buffalo Job No.: 480-207486-1

SDG ID.:

Matrix: Water Date Sampled: 04/03/2023 12:08

Reporting Basis: WET Date Received: 04/04/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
16887-00-6	Chloride	1430	10.0	5.6	mg/L			20	300.0
14808-79-8	Sulfate	261	40.0	7.0	mg/L			20	300.0
14797-55-8	Nitrate as N	0.027	J 0.050	0.020	mg/L	J	~~H~~	1	353.2
	Alkalinity, Total	254	5.0	0.79	mg/L		~~B~~ 2	1	SM 2320B
	Alkalinity, Bicarbonate	254	5.0	0.79	mg/L		~~B~~ 2	1	SM 2320B
	Alkalinity, Carbonate	ND	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	ND	5.0	0.79	mg/L			1	SM 2320B
7440-44-0	Total Organic Carbon	9.2	1.0	0.43	mg/L			1	SM 5310C
	TOC Result 1	10.5	1.0	0.43	mg/L			1	SM 5310C
	TOC Result 2	9.0	1.0	0.43	mg/L			1	SM 5310C

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
SPEEDY's CLEANERS, PITTSFORD, NEW YORK

Client: CDM Smith, Latham, New York
SDG: 480-207520-1
Laboratory: Eurofins, Buffalo, New York
Site: Speedy's Cleaners, Pittsford, New York
Date: May 5, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	828109-MW-5-8.5-18.5-040323	480-207520-1	Water
2	828109-MW-9-9-19-040323	480-207520-2	Water
2MS	828109-MW-9-9-19-040323MS	480-207520-2MS	Water
2MSD	828109-MW-9-9-19-040323MSD	480-207520-2MSD	Water
3	828109-MW-10-3-8-040323	480-207520-3	Water
4	828109-MW-11-3-13-040323	480-207520-4	Water
5	828109-MW-905-8.5-18.5-040323	480-207520-5	Water
6	828109-MW-3-8-18-040323	480-207520-6	Water
7	TRIP BLANK	480-207520-7	Water

A Data Usability Summary Review (DUSR) was performed on the analytical data for six water samples and one aqueous trip blank sample collected on April 3-4, 2023 by CDM Smith at the Speedy's Cleaners site in Pittsford, New York. The samples were analyzed under the Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260C

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation

- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
04/07/23 (1012)	Naphthalene	25.8%	J/UJ	3-7

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of acetone, 2-butanone and methylene chloride (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
2	Carbon Disulfide	45%/58%/OK	UJ
	Tetrachloroethene	OK/125%/OK	J
	27 Compounds	High/High/OK	None - Sample ND

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
480-664301/5	2-Butanone	197%	None	All Associated ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision is acceptable.

Compound	828109-MW-5-8.5-18.5-040323 ug/L	828109-MW-905-8.5-18.5-040323 ug/L	RPD	Qualifier
cis-1,2-Dichloroethene	46	40	14%	None
Tetrachloroethene	370	370	0%	
Trichloroethene	12	13	8%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 5/7/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-5-8.5-18.5-040323 Lab Sample ID: 480-207520-1

Matrix: Water Lab File ID: T3582.d

Analysis Method: 8260C Date Collected: 04/03/2023 15:35

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 17:54

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664301 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
95-63-6	1,2,4-Trimethylbenzene	ND		10	7.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
106-93-4	1,2-Dibromoethane	ND		10	7.3
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
108-67-8	1,3,5-Trimethylbenzene	ND		10	7.7
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
99-87-6	4-Isopropyltoluene	ND		10	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	46		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-5-8.5-18.5-040323 | Lab Sample ID: 480-207520-1

Matrix: Water | Lab File ID: T3582.d

Analysis Method: 8260C | Date Collected: 04/03/2023 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2023 17:54

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 664301 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		10	1.8
124-48-1	Dibromochloromethane	ND		10	3.2
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
98-82-8	Isopropylbenzene	ND		10	7.9
179601-23-1	m,p-Xylene	ND		20	6.6
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
91-20-3	Naphthalene	ND		10	4.3
104-51-8	n-Butylbenzene	ND		10	6.4
103-65-1	N-Propylbenzene	ND		10	6.9
95-47-6	o-Xylene	ND		10	7.6
135-98-8	sec-Butylbenzene	ND		10	7.5
100-42-5	Styrene	ND		10	7.3
98-06-6	tert-Butylbenzene	ND		10	8.1
127-18-4	Tetrachloroethene	370		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	12		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-9-9-19-040323 Lab Sample ID: 480-207520-2

Matrix: Water Lab File ID: T3583.d

Analysis Method: 8260C Date Collected: 04/03/2023 15:25

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 18:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664301 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	~~F1~~	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND	~~F1~~	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND	~~F1~~	1.0	0.23
75-34-3	1,1-Dichloroethane	ND	~~F1~~	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND	F1	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1	1.0	0.39
106-93-4	1,2-Dibromoethane	ND	F1	1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND	F1	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND	F1	1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND	F1	1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	~~F1~~	10	1.3
591-78-6	2-Hexanone	ND	F1	5.0	1.2
99-87-6	4-Isopropyltoluene	ND	F1	1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	F1	5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND	F1	1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND	~~F1 F2~~	UJ 1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND	F1	1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	0.56	J	1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	4.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Buffalo | Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-9-9-19-040323 | Lab Sample ID: 480-207520-2

Matrix: Water | Lab File ID: T3583.d

Analysis Method: 8260C | Date Collected: 04/03/2023 15:25

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2023 18:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 664301 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	F1	1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND	F1	1.0	0.74
98-82-8	Isopropylbenzene	ND	F1	1.0	0.79
179601-23-1	m,p-Xylene	ND	F1	2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND	F1	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND		1.0	0.43
104-51-8	n-Butylbenzene	ND	F1	1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND	F1	1.0	0.76
135-98-8	sec-Butylbenzene	ND	F1	1.0	0.75
100-42-5	Styrene	ND	F1	1.0	0.73
98-06-6	tert-Butylbenzene	ND	F1	1.0	0.81
127-18-4	Tetrachloroethene	4.2	F1 J	1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND	F1	1.0	0.37
79-01-6	Trichloroethene	ND	F1	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND	F1	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-10-3-8-040323 Lab Sample ID: 480-207520-3

Matrix: Water Lab File ID: N5454.d

Analysis Method: 8260C Date Collected: 04/03/2023 12:05

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 16:30

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
95-63-6	1,2,4-Trimethylbenzene	ND		4.0	3.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
108-67-8	1,3,5-Trimethylbenzene	ND		4.0	3.1
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
99-87-6	4-Isopropyltoluene	ND		4.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	56		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-10-3-8-040323 Lab Sample ID: 480-207520-3

Matrix: Water Lab File ID: N5454.d

Analysis Method: 8260C Date Collected: 04/03/2023 12:05

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 16:30

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		4.0	0.72
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
98-82-8	Isopropylbenzene	ND		4.0	3.2
179601-23-1	m,p-Xylene	ND		8.0	2.6
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
91-20-3	Naphthalene	ND	UJ	4.0	1.7
104-51-8	n-Butylbenzene	ND		4.0	2.6
103-65-1	N-Propylbenzene	ND		4.0	2.8
95-47-6	o-Xylene	ND		4.0	3.0
135-98-8	sec-Butylbenzene	ND		4.0	3.0
100-42-5	Styrene	ND		4.0	2.9
98-06-6	tert-Butylbenzene	ND		4.0	3.2
127-18-4	Tetrachloroethene	110		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	12		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-11-3-13-040323 Lab Sample ID: 480-207520-4

Matrix: Water Lab File ID: N5455.d

Analysis Method: 8260C Date Collected: 04/03/2023 12:08

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 16:53

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
95-63-6	1,2,4-Trimethylbenzene	ND		4.0	3.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
108-67-8	1,3,5-Trimethylbenzene	ND		4.0	3.1
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
99-87-6	4-Isopropyltoluene	ND		4.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-11-3-13-040323 Lab Sample ID: 480-207520-4

Matrix: Water Lab File ID: N5455.d

Analysis Method: 8260C Date Collected: 04/03/2023 12:08

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 16:53

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		4.0	0.72
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
98-82-8	Isopropylbenzene	ND		4.0	3.2
179601-23-1	m,p-Xylene	ND		8.0	2.6
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
91-20-3	Naphthalene	ND	UJ	4.0	1.7
104-51-8	n-Butylbenzene	ND		4.0	2.6
103-65-1	N-Propylbenzene	ND		4.0	2.8
95-47-6	o-Xylene	ND		4.0	3.0
135-98-8	sec-Butylbenzene	ND		4.0	3.0
100-42-5	Styrene	ND		4.0	2.9
98-06-6	tert-Butylbenzene	ND		4.0	3.2
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Buffalo | Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-905-8.5-18.5-040323 | Lab Sample ID: 480-207520-5

Matrix: Water | Lab File ID: N5456.d

Analysis Method: 8260C | Date Collected: 04/03/2023 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2023 17:15

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 664297 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
95-63-6	1,2,4-Trimethylbenzene	ND		10	7.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
106-93-4	1,2-Dibromoethane	ND		10	7.3
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
108-67-8	1,3,5-Trimethylbenzene	ND		10	7.7
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
99-87-6	4-Isopropyltoluene	ND		10	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	40		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-905-8.5-18.5-040323 Lab Sample ID: 480-207520-5

Matrix: Water Lab File ID: N5456.d

Analysis Method: 8260C Date Collected: 04/03/2023 15:35

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 17:15

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		10	1.8
124-48-1	Dibromochloromethane	ND		10	3.2
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
98-82-8	Isopropylbenzene	ND		10	7.9
179601-23-1	m,p-Xylene	ND		20	6.6
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
91-20-3	Naphthalene	ND	UJ	10	4.3
104-51-8	n-Butylbenzene	ND		10	6.4
103-65-1	N-Propylbenzene	ND		10	6.9
95-47-6	o-Xylene	ND		10	7.6
135-98-8	sec-Butylbenzene	ND		10	7.5
100-42-5	Styrene	ND		10	7.3
98-06-6	tert-Butylbenzene	ND		10	8.1
127-18-4	Tetrachloroethene	370		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	13		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-3-8-18-040423 Lab Sample ID: 480-207520-6

Matrix: Water Lab File ID: N5457.d

Analysis Method: 8260C Date Collected: 04/04/2023 13:50

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 17:38

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
95-63-6	1,2,4-Trimethylbenzene	ND		2.0	1.5
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
108-67-8	1,3,5-Trimethylbenzene	ND		2.0	1.5
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
99-87-6	4-Isopropyltoluene	ND		2.0	0.62
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	68		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Buffalo Job No.: 480-207520-1

SDG No.:

Client Sample ID: 828109-MW-3-8-18-040423 Lab Sample ID: 480-207520-6

Matrix: Water Lab File ID: N5457.d

Analysis Method: 8260C Date Collected: 04/04/2023 13:50

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2023 17:38

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 664297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	0.71	J	2.0	0.36
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
179601-23-1	m,p-Xylene	ND		4.0	1.3
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
91-20-3	Naphthalene	1.3	J	2.0	0.86
104-51-8	n-Butylbenzene	ND		2.0	1.3
103-65-1	N-Propylbenzene	ND		2.0	1.4
95-47-6	o-Xylene	ND		2.0	1.5
135-98-8	sec-Butylbenzene	ND		2.0	1.5
100-42-5	Styrene	ND		2.0	1.5
98-06-6	tert-Butylbenzene	ND		2.0	1.6
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	39		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Buffalo | Job No.: 480-207520-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-207520-7

Matrix: Water | Lab File ID: N5458.d

Analysis Method: 8260C | Date Collected: 04/03/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2023 18:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 664297 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	0.77
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
99-87-6	4-Isopropyltoluene	ND		1.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Buffalo | Job No.: 480-207520-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-207520-7

Matrix: Water | Lab File ID: N5458.d

Analysis Method: 8260C | Date Collected: 04/03/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2023 18:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 664297 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
179601-23-1	m,p-Xylene	ND		2.0	0.66
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
91-20-3	Naphthalene	ND	UJ	1.0	0.43
104-51-8	n-Butylbenzene	ND		1.0	0.64
103-65-1	N-Propylbenzene	ND		1.0	0.69
95-47-6	o-Xylene	ND		1.0	0.76
135-98-8	sec-Butylbenzene	ND		1.0	0.75
100-42-5	Styrene	ND		1.0	0.73
98-06-6	tert-Butylbenzene	ND		1.0	0.81
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
SPEEDY's CLEANERS, PITTSFORD, NEW YORK

Client: CDM Smith, Latham, New York
SDG: 480-207597-1
Laboratory: Eurofins, Buffalo, New York
Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Speedy's Cleaners, Pittsford, New York
Date: June 2, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	828109-MW-9-9-19-040323	480-207597-1	Water
1MS	828109-MW-9-9-19-040323MS	480-207597-1MS	Water
1MSD	828109-MW-9-9-19-040323MSD	480-207597-1MSD	Water
2	828109-MW-10-3-8-040323	480-207597-2	Water
3	828109-MW-11-3-13-040323	480-207597-3	Water
4	828109-MW-5-8.5-18.5-040323	480-207597-4	Water
5	828109-MW-905-8.5-18.5-040323	480-207597-5	Water
6	828109-MW-EB-01-040323	480-207597-6	Water
8	828109-MW-3-8-18-040423	480-207597-8	Water
10	828109-MW-EB-02-040423	480-207597-10	Water

A Data Usability Summary Review (DUSR) was performed on the analytical data for six water samples and two aqueous equipment blank samples collected on April 3-4, 2023 by CDM Smith at the Speedy's Cleaners site in Pittsford, New York. The samples were analyzed under the Analysis of Perfluoroalkyl Substances in Environmental Samples by Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537, November 2018;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D).

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
828109-MW-EB-01-040323	None - ND	-	-	-
828109-MW-EB-02-040423	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
1	PFEESA	OK/OK/37	None for RPD Alone
	5:3 FTCA	OK/166%/OK	None - Sample ND

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited several compounds with the ion transition ratio outside QC limits and were flagged (I) by the laboratory. These results were qualified as estimated (J).

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision was acceptable.

Compound	828109-MW-5-8.5-18.5-040323 ng/L	828109-MW-905-8.5-18.5-040323 ng/L	RPD	Qualifier
PFBA	9.7	9.9	2%	None
PFPeA	21	19	10%	
PFHxA	18	20	11%	
PFHpA	9.2	8.0	14%	
PFOA	19	18	5%	
PFNA	1.0	1.5	40%	None - <5X RL
PFBS	3.5	2.9	19%	None
PFPeS	1.4	1.1	24%	
PFHxS	4.4	4.3	2%	
PFOS	17	17	0%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/2/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-9-9-19-040323
Lab Sample ID: 480-207597-1

Matrix: Water
Lab File ID: 23MAY07-43.d

Analysis Method: 1633
Date Collected: 04/03/2023 15:25

Extraction Method: 1633
Date Extracted: 04/27/2023 17:55

Sample wt/vol: 585.8(mL)
Date Analyzed: 05/08/2023 01:37

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	9.6		6.8	1.7
2706-90-3	Perfluoropentanoic acid	7.2	J	3.4	0.85
307-24-4	Perfluorohexanoic acid	5.9		1.7	0.43
375-85-9	Perfluoroheptanoic acid	1.7		1.7	0.44
335-67-1	Perfluorooctanoic acid	4.6		1.7	0.55
375-95-1	Perfluorononanoic acid	0.82	J	1.7	0.43
335-76-2	Perfluorodecanoic acid	ND		1.7	0.43
2058-94-8	Perfluoroundecanoic acid	ND		1.7	0.43
307-55-1	Perfluorododecanoic acid	ND		1.7	0.43
72629-94-8	Perfluorotridecanoic acid	ND		1.7	0.43
376-06-7	Perfluorotetradecanoic acid	ND		1.7	0.43
375-73-5	Perfluorobutanesulfonic acid	2.5		1.7	0.26
2706-91-4	Perfluoropentanesulfonic acid	ND		1.7	0.43
355-46-4	Perfluorohexanesulfonic acid	1.1	J	1.7	0.49
375-92-8	Perfluoroheptanesulfonic acid	ND		1.7	0.34
1763-23-1	Perfluorooctanesulfonic acid	5.3		1.7	0.43
68259-12-1	Perfluorononanesulfonic acid	ND		1.7	0.34
335-77-3	Perfluorodecanesulfonic acid	ND		1.7	0.43
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.77
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		6.8	1.5
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		6.8	2.1
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		6.8	2.2
754-91-6	Perfluorooctanesulfonamide	ND		1.7	0.43
31506-32-8	NMeFOSA	ND		1.7	0.43
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.7	0.43
2355-31-9	NMeFOSAA	ND		3.4	1.0
2991-50-6	NEtFOSAA	ND		1.7	0.60
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.3

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-9-9-19-040323 Lab Sample ID: 480-207597-1

Matrix: Water Lab File ID: 23MAY07-43.d

Analysis Method: 1633 Date Collected: 04/03/2023 15:25

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 585.8(mL) Date Analyzed: 05/08/2023 01:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.3
13252-13-6	HFPO-DA	ND		6.8	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.8	1.3
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.4	0.43
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.4	0.85
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.4	0.85
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.8	0.85
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.8	1.7
113507-82-7	PFEESA	ND	~~F2~~	3.4	0.43
356-02-5	3:3 FTCA	ND		8.5	1.3
914637-49-3	5:3 FTCA	ND	~~F1~~	43	8.5
812-70-4	7:3 FTCA	ND		43	8.5

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-10-3-8-040323 Lab Sample ID: 480-207597-2

Matrix: Water Lab File ID: 23MAY07-46.d

Analysis Method: 1633 Date Collected: 04/03/2023 12:05

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 531.1(mL) Date Analyzed: 05/08/2023 02:17

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	82		7.5	1.9
2706-90-3	Perfluoropentanoic acid	59		3.8	0.94
307-24-4	Perfluorohexanoic acid	42		1.9	0.47
375-85-9	Perfluoroheptanoic acid	14		1.9	0.49
335-67-1	Perfluorooctanoic acid	31		1.9	0.60
375-95-1	Perfluorononanoic acid	1.1	J	1.9	0.47
335-76-2	Perfluorodecanoic acid	ND		1.9	0.47
2058-94-8	Perfluoroundecanoic acid	ND		1.9	0.47
307-55-1	Perfluorododecanoic acid	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid	14		1.9	0.28
2706-91-4	Perfluoropentanesulfonic acid	3.6		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid	6.6		1.9	0.54
375-92-8	Perfluoroheptanesulfonic acid	ND		1.9	0.38
1763-23-1	Perfluorooctanesulfonic acid	17		1.9	0.47
68259-12-1	Perfluorononanesulfonic acid	ND		1.9	0.38
335-77-3	Perfluorodecanesulfonic acid	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.85
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.5	1.6
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.5	2.4
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.5	2.4
754-91-6	Perfluorooctanesulfonamide	ND		1.9	0.47
31506-32-8	NMeFOSA	ND		1.9	0.47
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.9	0.47
2355-31-9	NMeFOSAA	ND		3.8	1.1
2991-50-6	NEtFOSAA	ND		1.9	0.66
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.7

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-10-3-8-040323 Lab Sample ID: 480-207597-2

Matrix: Water Lab File ID: 23MAY07-46.d

Analysis Method: 1633 Date Collected: 04/03/2023 12:05

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 531.1(mL) Date Analyzed: 05/08/2023 02:17

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		19	4.7
13252-13-6	HFPO-DA	ND		7.5	1.9
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.8	0.47
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.8	0.94
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.8	0.94
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.5	0.94
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.5	1.9
113507-82-7	PFEESA	ND		3.8	0.47
356-02-5	3:3 FTCA	ND		9.4	1.4
914637-49-3	5:3 FTCA	ND		47	9.4
812-70-4	7:3 FTCA	ND		47	9.4

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-11-3-13-040323 Lab Sample ID: 480-207597-3

Matrix: Water Lab File ID: 23MAY07-49.d

Analysis Method: 1633 Date Collected: 04/03/2023 12:08

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 573.4(mL) Date Analyzed: 05/08/2023 02:56

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	40		7.0	1.7
2706-90-3	Perfluoropentanoic acid	3.5		3.5	0.87
307-24-4	Perfluorohexanoic acid	ND		1.7	0.44
375-85-9	Perfluoroheptanoic acid	ND		1.7	0.45
335-67-1	Perfluorooctanoic acid	1.6	J	1.7	0.56
375-95-1	Perfluorononanoic acid	ND		1.7	0.44
335-76-2	Perfluorodecanoic acid	ND		1.7	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid	ND		1.7	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.7	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.7	0.44
375-73-5	Perfluorobutanesulfonic acid	24		1.7	0.26
2706-91-4	Perfluoropentanesulfonic acid	0.45	J	1.7	0.44
355-46-4	Perfluorohexanesulfonic acid	ND		1.7	0.50
375-92-8	Perfluoroheptanesulfonic acid	ND		1.7	0.35
1763-23-1	Perfluorooctanesulfonic acid	ND		1.7	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.7	0.35
335-77-3	Perfluorodecanesulfonic acid	ND		1.7	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.78
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.0	1.5
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.0	2.2
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.0	2.3
754-91-6	Perfluorooctanesulfonamide	ND		1.7	0.44
31506-32-8	NMeFOSA	ND		1.7	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.7	0.44
2355-31-9	NMeFOSAA	ND		3.5	1.0
2991-50-6	NEtFOSAA	ND		1.7	0.61
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-11-3-13-040323 Lab Sample ID: 480-207597-3

Matrix: Water Lab File ID: 23MAY07-49.d

Analysis Method: 1633 Date Collected: 04/03/2023 12:08

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 573.4(mL) Date Analyzed: 05/08/2023 02:56

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4
13252-13-6	HFPO-DA	ND		7.0	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.3
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.5	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.5	0.87
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.5	0.87
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	0.87
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.7
113507-82-7	PFEESA	ND		3.5	0.44
356-02-5	3:3 FTCA	ND		8.7	1.3
914637-49-3	5:3 FTCA	ND		44	8.7
812-70-4	7:3 FTCA	ND		44	8.7

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-5-8.5-18.5-040323 Lab Sample ID: 480-207597-4

Matrix: Water Lab File ID: 23MAY07-50.d

Analysis Method: 1633 Date Collected: 04/03/2023 15:35

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 544.3(mL) Date Analyzed: 05/08/2023 03:09

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	9.7		7.3	1.8
2706-90-3	Perfluoropentanoic acid	21		3.7	0.92
307-24-4	Perfluorohexanoic acid	18		1.8	0.46
375-85-9	Perfluoroheptanoic acid	9.2		1.8	0.48
335-67-1	Perfluorooctanoic acid	19		1.8	0.59
375-95-1	Perfluorononanoic acid	1.0	J	1.8	0.46
335-76-2	Perfluorodecanoic acid	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	3.5		1.8	0.28
2706-91-4	Perfluoropentanesulfonic acid	1.4	J	1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	4.4		1.8	0.52
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.37
1763-23-1	Perfluorooctanesulfonic acid	17	J	1.8	0.46
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.37
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.83
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.6
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
31506-32-8	NMeFOSA	ND		1.8	0.46
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46
2355-31-9	NMeFOSAA	ND		3.7	1.1
2991-50-6	NEtFOSAA	ND		1.8	0.64

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-5-8.5-18.5-040323 Lab Sample ID: 480-207597-4

Matrix: Water Lab File ID: 23MAY07-50.d

Analysis Method: 1633 Date Collected: 04/03/2023 15:35

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 544.3(mL) Date Analyzed: 05/08/2023 03:09

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6
13252-13-6	HFPO-DA	ND		7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.7	0.46
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.7	0.92
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.7	0.92
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.92
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8
113507-82-7	PFEESA	ND		3.7	0.46
356-02-5	3:3 FTCA	ND		9.2	1.4
914637-49-3	5:3 FTCA	ND		46	9.2
812-70-4	7:3 FTCA	ND		46	9.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-905-8.5-18.5-040323 Lab Sample ID: 480-207597-5

Matrix: Water Lab File ID: 23MAY07-51.d

Analysis Method: 1633 Date Collected: 04/03/2023 15:35

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 546.5(mL) Date Analyzed: 05/08/2023 03:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	9.9		7.3	1.8
2706-90-3	Perfluoropentanoic acid	19	J	3.7	0.91
307-24-4	Perfluorohexanoic acid	20		1.8	0.46
375-85-9	Perfluoroheptanoic acid	8.0		1.8	0.48
335-67-1	Perfluorooctanoic acid	18		1.8	0.59
375-95-1	Perfluorononanoic acid	1.5	J	1.8	0.46
335-76-2	Perfluorodecanoic acid	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	2.9	J	1.8	0.27
2706-91-4	Perfluoropentanesulfonic acid	1.1	J	1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	4.3		1.8	0.52
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.37
1763-23-1	Perfluorooctanesulfonic acid	17	J	1.8	0.46
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.37
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.6
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
31506-32-8	NMeFOSA	ND		1.8	0.46
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46
2355-31-9	NMeFOSAA	ND		3.7	1.1
2991-50-6	NEtFOSAA	ND		1.8	0.64

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-905-8.5-18.5-040323 Lab Sample ID: 480-207597-5

Matrix: Water Lab File ID: 23MAY07-51.d

Analysis Method: 1633 Date Collected: 04/03/2023 15:35

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 546.5(mL) Date Analyzed: 05/08/2023 03:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6
13252-13-6	HFPO-DA	ND		7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.7	0.46
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.7	0.91
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.7	0.91
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.91
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8
113507-82-7	PFEESA	ND		3.7	0.46
356-02-5	3:3 FTCA	ND		9.1	1.4
914637-49-3	5:3 FTCA	ND		46	9.1
812-70-4	7:3 FTCA	ND		46	9.1

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-EB-01-040323 Lab Sample ID: 480-207597-6

Matrix: Water Lab File ID: 23MAY07-52.d

Analysis Method: 1633 Date Collected: 04/03/2023 16:30

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 567.6(mL) Date Analyzed: 05/08/2023 03:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		7.0	1.8
2706-90-3	Perfluoropentanoic acid	ND		3.5	0.88
307-24-4	Perfluorohexanoic acid	ND		1.8	0.44
375-85-9	Perfluoroheptanoic acid	ND		1.8	0.46
335-67-1	Perfluorooctanoic acid	ND		1.8	0.56
375-95-1	Perfluorononanoic acid	ND		1.8	0.44
335-76-2	Perfluorodecanoic acid	ND		1.8	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid	ND		1.8	0.26
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.50
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.35
1763-23-1	Perfluorooctanesulfonic acid	ND		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.35
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.79
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.0	1.5
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.0	2.2
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.0	2.3
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.44
31506-32-8	NMeFOSA	ND		1.8	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.44
2355-31-9	NMeFOSAA	ND		3.5	1.1
2991-50-6	NEtFOSAA	ND		1.8	0.62
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.4

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-EB-01-040323 Lab Sample ID: 480-207597-6

Matrix: Water Lab File ID: 23MAY07-52.d

Analysis Method: 1633 Date Collected: 04/03/2023 16:30

Extraction Method: 1633 Date Extracted: 04/27/2023 17:55

Sample wt/vol: 567.6(mL) Date Analyzed: 05/08/2023 03:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 373051 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.4
13252-13-6	HFPO-DA	ND		7.0	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.3
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.5	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.5	0.88
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.5	0.88
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	0.88
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.8
113507-82-7	PFEESA	ND		3.5	0.44
356-02-5	3:3 FTCA	ND		8.8	1.3
914637-49-3	5:3 FTCA	ND		44	8.8
812-70-4	7:3 FTCA	ND		44	8.8

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-3-8-18-040423 Lab Sample ID: 480-207597-8

Matrix: Water Lab File ID: 23MAY01-23.d

Analysis Method: 1633 Date Collected: 04/04/2023 13:50

Extraction Method: 1633 Date Extracted: 04/17/2023 21:30

Sample wt/vol: 544.4(mL) Date Analyzed: 05/01/2023 18:51

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 370640 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	56		7.3	1.8
2706-90-3	Perfluoropentanoic acid	15		3.7	0.92
307-24-4	Perfluorohexanoic acid	16		1.8	0.46
375-85-9	Perfluoroheptanoic acid	14		1.8	0.48
335-67-1	Perfluorooctanoic acid	41		1.8	0.59
375-95-1	Perfluorononanoic acid	6.8		1.8	0.46
335-76-2	Perfluorodecanoic acid	1.7	J	1.8	0.46
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	5.6		1.8	0.28
2706-91-4	Perfluoropentanesulfonic acid	2.1		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	11		1.8	0.52
375-92-8	Perfluoroheptanesulfonic acid	2.2		1.8	0.37
1763-23-1	Perfluorooctanesulfonic acid	110		1.8	0.46
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.37
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.83
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.3	1.6
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.3	2.3
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.3	2.4
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
31506-32-8	NMeFOSA	ND		1.8	0.46
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.8	0.46
2355-31-9	NMeFOSAA	1.2	J	3.7	1.1
2991-50-6	NEtFOSAA	ND		1.8	0.64
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-MW-3-8-18-040423 Lab Sample ID: 480-207597-8

Matrix: Water Lab File ID: 23MAY01-23.d

Analysis Method: 1633 Date Collected: 04/04/2023 13:50

Extraction Method: 1633 Date Extracted: 04/17/2023 21:30

Sample wt/vol: 544.4(mL) Date Analyzed: 05/01/2023 18:51

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 370640 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		18	4.6
13252-13-6	HFPO-DA	ND		7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.7	0.46
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.7	0.92
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.7	0.92
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	0.92
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8
113507-82-7	PFEESA	ND		3.7	0.46
356-02-5	3:3 FTCA	ND		9.2	1.4
914637-49-3	5:3 FTCA	ND		46	9.2
812-70-4	7:3 FTCA	ND		46	9.2

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-EB-02-040423 Lab Sample ID: 480-207597-10

Matrix: Water Lab File ID: 23MAY01-22b.d

Analysis Method: 1633 Date Collected: 04/04/2023 13:15

Extraction Method: 1633 Date Extracted: 04/17/2023 21:30

Sample wt/vol: 573.7(mL) Date Analyzed: 05/01/2023 18:34

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 370640 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid	ND		7.0	1.7
2706-90-3	Perfluoropentanoic acid	ND		3.5	0.87
307-24-4	Perfluorohexanoic acid	ND		1.7	0.44
375-85-9	Perfluoroheptanoic acid	ND		1.7	0.45
335-67-1	Perfluorooctanoic acid	ND		1.7	0.56
375-95-1	Perfluorononanoic acid	ND		1.7	0.44
335-76-2	Perfluorodecanoic acid	ND		1.7	0.44
2058-94-8	Perfluoroundecanoic acid	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid	ND		1.7	0.44
72629-94-8	Perfluorotridecanoic acid	ND		1.7	0.44
376-06-7	Perfluorotetradecanoic acid	ND		1.7	0.44
375-73-5	Perfluorobutanesulfonic acid	ND		1.7	0.26
2706-91-4	Perfluoropentanesulfonic acid	ND		1.7	0.44
355-46-4	Perfluorohexanesulfonic acid	ND		1.7	0.50
375-92-8	Perfluoroheptanesulfonic acid	ND		1.7	0.35
1763-23-1	Perfluorooctanesulfonic acid	ND		1.7	0.44
68259-12-1	Perfluorononanesulfonic acid	ND		1.7	0.35
335-77-3	Perfluorodecanesulfonic acid	ND		1.7	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.78
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	ND		7.0	1.5
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		7.0	2.2
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		7.0	2.3
754-91-6	Perfluorooctanesulfonamide	ND		1.7	0.44
31506-32-8	NMeFOSA	ND		1.7	0.44
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	ND		1.7	0.44
2355-31-9	NMeFOSAA	ND		3.5	1.0
2991-50-6	NEtFOSAA	ND		1.7	0.61
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 480-207597-1

SDG No.:

Client Sample ID: 828109-EB-02-040423 Lab Sample ID: 480-207597-10

Matrix: Water Lab File ID: 23MAY01-22b.d

Analysis Method: 1633 Date Collected: 04/04/2023 13:15

Extraction Method: 1633 Date Extracted: 04/17/2023 21:30

Sample wt/vol: 573.7(mL) Date Analyzed: 05/01/2023 18:34

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 370640 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	ND		17	4.4
13252-13-6	HFPO-DA	ND		7.0	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.3
377-73-1	Perfluoro-3-methoxypropanoic acid	ND		3.5	0.44
863090-89-5	Perfluoro(4-methoxybutanoic acid)	ND		3.5	0.87
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	ND		3.5	0.87
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	0.87
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.7
113507-82-7	PFEESA	ND		3.5	0.44
356-02-5	3:3 FTCA	ND		8.7	1.3
914637-49-3	5:3 FTCA	ND		44	8.7
812-70-4	7:3 FTCA	ND		44	8.7