

Leyden Township

RE: IL0315880 Consumer Confidence Annual Water

Report January 1, 2023 to December 31, 2023

This publication conforms to the new federal regulation under the S.D. W.A. that requires water utilities to provide detailed water quality to each of their customers annually. Leyden Township must provide you with this information.

This report is intended to provide you with important information about your drinking water and efforts made by Leyden Township Water Department to provide safe drinking water to all residents.

If you have any questions relating to your water supply, and this report, please contact Mr. Marcin Mitek, Certified Water Operator for Leyden Township at 847-455-8616.

Have a friend or relative translate this report to non-speaking/reading resident.

This Report will try to answer most common questions about your drinking water. Leyden Township receives its water originally from the City of Chicago via Lake Michigan. The water is then purchased through the Village of Melrose Park water supply system and the Franklin Park water system.

Lake Michigan is the surface water supply used to provide drinking water for Chicago and 123 suburban communities. The Environmental Protection Agency (EPA) has found that the quality of Lake Michigan has improved dramatically over the past 23 years. Lake Michigan, by volume, is the second largest Great Lake and the only one located totally within the United States. It serves as a source of drinking water, as a place for swimming and fishing, and as a scenic wonderland. Sources of drinking water used for both tap water and bottled water can pick up contaminants as water travels over the surface of the land or through the ground. The drinking water source is vulnerable to industrial waste and runoff from surrounding lands. Potential sources of pollution such as pesticides, herbicides, radioactive materials, and organic and inorganic petroleum and gas production by-products can impact the source water. We do not have indications of the presence of these contaminants at this time, mainly because of restrictions, which prohibit industrial effluents from entering Lake Michigan; Sewage treatment plant effluents are not discharged into the lake, thereby reducing the threat of microbial contamination. All 63 miles of shoreline within Illinois are now considered to be in good condition. The Illinois EPA Office of Groundwater will be doing a source water assessment within the next three years. When completed, all sources of Pollutants into Lake Michigan will be identified and there will be information regarding the source water's susceptibility to contaminants based on the findings of the assessment. Since the quality of the raw water source is good, conventional treatment methods of disinfection, coagulation and sedimentation, and sand filtration are adequate for producing water that is free of harmful contaminants.

The City of Chicago Water Department provides the water treatment necessary to safeguard the water delivered through Melrose Park and then on to Leyden Township. Water is taken from Lake Michigan at several water inlets located just off shore. Chlorine is then injected into the water for disinfection. The water is processed through settling and filtration where the water is filtered to remove any sedimentation that exists in the water. After any remaining particles are removed the water is then re-chlorinated as a precaution to eliminate any microorganisms still remaining. The City of Chicago Water Department monitors and proceeds with voluntary testing for many contaminants which are regulated but no current standards currently exist.

Cryptosporidium: a microscopic organism that can cause illness similar to that of gastrointestinal symptoms. Analyses have been conducted monthly. Cryptosporidium has not been detected in any sample testing. Treatment processes have been optimized to ensure that if there are cryptosporidium cysts in the source water they will be removed during the treatment process. By maintaining a low Turbidity (cloudiness from soil runoff), through proper filtration and disinfectants, the threat of cryptosporidium organisms in the drinking water system is dramatically reduced.

Asbestos: samples are examined for asbestos fibers in the source water and finished water on a routine basis. The EPA has determined that asbestos fibers in high levels for long periods of time may cause lung cancer. Fibers in high levels have not been found.

Sodium: there is not a state or federal acceptable level for sodium amounts in water. The City of Chicago is required to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions.

The water is now ready to be distributed to adjoining towns. The city of Chicago carefully monitors the chlorine amounts so as not to compromise taste and odor. Fluoride is also added to fight the battle of tooth decay.

Leyden Township Water Department also monitors the levels of contaminants exiting in the water as it enters our distribution system, adding chlorine when tests results show abnormal levels of contaminants. The Township works adamantly to ensure the delivery of safe and tasteful drinking water to all its residents.

SPECIAL HEALTH INFORMATION

FROM THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that might be present in source water include:

Microbial Contaminants: such as viruses and bacteria, this may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

Inorganic Contaminants: such as salts and metals, which can be naturally occurring or result from urban storm water runoff, domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and Herbicides: This may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.

Organic Chemical Contaminants: including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff and septic systems.

Radioactive Contaminants: which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure the tap water is safe to drink, EPA prescribes regulations which limit the number of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

The water, originating from the City of Chicago, is purchased through the Village of Melrose Park's water system and stored the Township's 1-million-gallon water tank, located on 25th Ave. It is then pumped throughout the Township's pumping station, located adjacent from the water tank, throughout the township on demand.

The attached tables show the Water Quality Data for the sources of water from which Leyden Township receives its water for distribution, via City of Chicago and Village of Melrose Park. These reports showing any and all detected contaminants results monitored for the 2023 calendar year can be found on the **IEPA** website.

Water Conservation Tips

Water conservation measures are an important first step in protecting our water supply. Such measures not only save the supply of our source water, but can also save you money by reducing your water and sewer bills. Here are a few suggestions.

Fix leaking faucets, pipes, toilets, etc.

Replace old fixtures; install water-saving devices in faucets, toilets and appliances.

Wash only full loads of laundry.

Do not use the toilet for trash disposal.

Take shorter showers.

Do not let water run while shaving or brushing teeth.

Soak dishes before washing.

Run the dishwasher only when full. You can conserve outdoors as well:

Water the lawn and garden in the early morning or evening.

Use mulch around plants and shrubs.

Repair leaks in faucets and hoses.

Use water-saving nozzles.

Use water from a bucket to wash your car, and save the hose for rinsing.

Unit of Measurement - Definition

Ppt. Parts per trillion, or nanograms per liter

ppm _ Parts per million, or milligrams per liter

ppb _Parts per billion, or micrograms per liter

Pei/l. Pico curies per liter, used to measure radioactivity

Consumer Confidence Report

Annual Drinking Water Quality Report

LEYDEN TWSP WATER DISTRICT

IL0315880

Annual Water Quality Report for the period of January 1 to December 31, 2023

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by
LEYDEN TWSP WATER DISTRICT is Purchased Surface Water

For more information regarding this report contact:

Name MARLIN MITEL

Phone 847 254-7564

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Source Water Information

Source Water Name	Type of Water	Report Status	Location
CC 01-HSP DISCHARGE LINE	FF IL0311860 TP02: LAKE	SW	<hr/>

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at 847 284-7566. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Source of Water: CHICAGO The Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection only dilution. This is the reason for mandatory treatment for all surface water supplies in Illinois. Chicago's offshore intakes are located at a distance that shoreline impacts are not usually considered a factor on water quality. At certain times of the year, however, the potential for contamination exists due to wet-weather flows and river reversals. In addition, the placement of the crib structures may serve to attract waterfowl, gulls and terns that frequent the Great Lakes area, thereby concentrating fecal deposits at the intake and thus compromising the source water quality. Conversely, the shore intakes are highly susceptible to storm water runoff, marinas and shoreline point sources due to the influx of groundwater to the lake.

2023 Regulated Contaminants Detected

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2023	1.3	1.3	0.129	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2023	0	15	6.08	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions:

The following tables contain scientific terms and measures, some of which may require explanation.

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Level 1 Assessment:

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment:

A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Maximum Contaminant Level or MCL:

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG:

The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum residual disinfectant level or MRDL:

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG:

The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

na:

not applicable.

mrem:

millirems per year (a measure of radiation absorbed by the body)

ppb:

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

Water Quality Test Results

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water,
Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2023	1	0.64 - 1.2	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	12	7 - 17.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	30	14.6 - 42.3	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

2023 Water Quality Data

DATA TABULATED BY CHICAGO DEPARTMENT OF WATER MANAGEMENT
0316000 CHICAGO

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Highest Level Detected: This column represents the highest single sample reading of a contaminant of all the samples collected in 2023.

Range of Detections: This column represents a range of individual sample results, from lowest to highest that were collected during the CCR calendar year.

Date of Sample: If a date appears in this column, the Illinois EPA requires monitoring for this contaminant less than once per year because the concentrations do not frequently change. If no date appears in the column, monitoring for this contaminant was conducted during the Consumer Confidence Report calendar year.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

N/A: Not applicable

DETECTED CONTAMINANTS

Contaminant (unit of measurement) <i>Typical source of Contaminant</i>	MCLG	MCL	Highest Level Detected	Range of Detections	Violation	Date of Sample
Turbidity Data						
Turbidity (NTU/Lowest Monthly % ≤ 0.3 NTU) <i>Soil runoff</i>	N/A	TT (Limit: 95% ≤ 0.3 NTU)	Lowest Monthly %: 100%	100% - 100%		
Turbidity (NTU/Highest Single Measurement) <i>Soil runoff</i>	N/A	TT (Limit 1 NTU)	0.25	N/A		
Inorganic Contaminants						
Barium (ppm) <i>Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits</i>	2	2	0.0195	0.0192 - 0.0195		
Nitrate (as Nitrogen) (ppm) <i>Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits</i>	10	10	0.33	0.29 - 0.33		
Total Nitrate & Nitrite (as Nitrogen) (ppm) <i>Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits</i>	10	10	0.33	0.29 - 0.33		
Total Organic Carbon (TOC)						
TOC	The percentage of TOC removal was measured each month and the system met all TOC removal requirements set by IEPA.					
Unregulated Contaminants						
Sulfate (ppm) <i>Erosion of naturally occurring deposits</i>	N/A	N/A	27.8	25.0 - 27.8		
Sodium (ppm) <i>Erosion of naturally occurring deposits; Used as water softener</i>	N/A	N/A	8.71	8.43 - 8.71		
State Regulated Contaminants						
Fluoride (ppm) <i>Water additive which promotes strong teeth</i>	4	4	0.74	0.66 - 0.74		
Radioactive Contaminants						
Combined Radium (226/228) (pCi/L) <i>Decay of natural and man-made deposits.</i>	0	5	0.95	0.83 - 0.95		02-04-2020
Gross Alpha excluding radon and uranium (pCi/L) <i>Decay of natural and man-made deposits.</i>	0	15	3.1	2.8 - 3.1		02-04-2020

Units of Measurement

ppm: Parts per million, or milligrams per liter

ppb: Parts per billion, or micrograms per liter

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water

% ≤ 0.3 NTU: Percent of samples less than or equal to 0.3 NTU

pCi/L: Picocuries per liter, used to measure radioactivity

TURBIDITY

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

UNREGULATED CONTAMINANTS

A maximum contaminant level (MCL) for this contaminant has not been established by either state or federal regulations, nor has mandatory health effects language. The purpose for monitoring this contaminant is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water, and whether future regulation is warranted.

FLUORIDE

Fluoride is added to the water supply to help promote strong teeth. The Illinois Department of Public Health recommends an optimal fluoride level of 0.7 mg/L with a range of 0.6 mg/L to 0.8 mg/L.

SODIUM

There is no state or federal MCL for sodium. Monitoring is required to provide information to consumers and health officials who have concerns about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about the level of sodium in the water.

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 01, 2024

Michael Losurdo
Leyden Township
2501 N Mannheim Road
Franklin Park, IL 60131

Workorder: 2403B29

TEL:
FAX:
RE: IL0315880 UCMR 5 SE1 March 2024

Dear Michael Losurdo:

Suburban Laboratories, Inc. received 5 sample(s) on 3/14/2024 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

A handwritten signature in black ink that reads "Allison Phillips".

Allison Phillips
Project Manager
(708) 544-3260 ext 211
aphillips@suburbanlabs.com





Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Leyden Township

Date: April 01, 2024

Project: IL0315880 UCMR 5 SE1 March 2024

PO #:

WorkOrder: 2403B29

QC Level:

Temperature of samples upon receipt at SLI: C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS: (Surrogate Standard): Quality control compound added to the sample by the lab.
- LA: Lab Accident - No valid data to report.
- VO: Insufficient Volume provided
- BR: Received broken
- IP: Invalid Sampling

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

G = Samples subcontracted to ALS Environmental, Inc. for some of the analysis requested.



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Leyden Township

Report Date: April 01, 2024

Project Name: IL0315880 UCMR 5 SE1 March 2024

Workorder: 2403B29

Client Sample ID: CC01 533

Matrix: DRINKING WATER

Lab ID: 2403B29-001

Date Received: 03/14/2024 10:38 AM

Collection Date: 03/13/2024 8:50 AM

Parameter	Result	Report Limit	MCL	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SUB-CONTRACTED							Method:	Analyst: APH
Perfluorooctane Sulfonic Acid (PFOS)	See Attached	0		G		1	03/29/2024 4:59 AM	R175092



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Leyden Township

Report Date: April 01, 2024

Project Name: IL0315880 UCMR 5 SE1 March 2024

Workorder: 2403B29

Client Sample ID: CC01 537

Matrix: DRINKING WATER

Lab ID: 2403B29-003

Date Received: 03/14/2024 10:38 AM

Collection Date: 03/13/2024 8:40 AM

Parameter	Result	Report Limit	MCL	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SUB-CONTRACTED								
			Method:			Analyst: APH		
Perfluorooctane Sulfonic Acid (PFOS)	See Attached	0		G		1	03/25/2024 10:27 PM	R175092



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Leyden Township

Report Date: April 01, 2024

Project Name: IL0315880 UCMR 5 SE1 March 2024

Workorder: 2403B29

Client Sample ID: CC01 LITHIUM

Matrix: DRINKING WATER

Lab ID: 2403B29-005

Date Received: 03/14/2024 10:38 AM

Collection Date: 03/13/2024 8:22 AM

Parameter	Result	Report Limit	MCL	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
UCMR 5 LITHIUM		Method:		Analyst: SCT				
Lithium	ND	5.00			µg/L	1	03/21/2024 11:58 AM	96383



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Leyden Township
Project: IL0315880 UCMR 5 SE1 March 2

Report Date: April 01, 2024
Lab Order: 2403B29

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2403B29-005A	3/13/2024 8:22:00 AM	96383	ICP Drinking Water Prep		3/19/2024



Qualifiers:

- * /x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in TNI/NELAC scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.
- WI This sample was ran at the Wisconsin Laboratory, WI DNR Certified #246179890



29-Mar-2024

Drinking Water
Suburban Laboratories, Inc.
1950 S. Batavia Ave
Suite 150
Geneva, IL 60134

Re: **IL0315880 Leyden Township**

Work Order: **24031147**

Dear Drinking,

ALS Environmental received 2 samples on 15-Mar-2024 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Alex J. Csaszar
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS Global, Inc. (GSI) Part of The ALS Laboratory Group A Canadian/US based Company

Client: Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township
Work Order: 24031147

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
24031147-01	CC01	Source Water		3/13/2024 08:50	3/15/2024 10:00	<input type="checkbox"/>
24031147-02	CC01 FRB	Source Water	CC01	3/13/2024 08:28	3/15/2024 10:00	<input type="checkbox"/>

Client: Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township
Work Order: 24031147

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

Client: Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township
WorkOrder: 24031147

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

ALS Group, USA

Date: 29-Mar-24

Client: Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township

Work Order: 24031147

Lab ID: 24031147-01A

Collection Date: 3/13/2024 8:50:00 AM

Client Sample ID: CC01

Matrix: SOURCE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PFAS BY EPA 537.1			E537.1			
					Prep: E537.1 3/22/24 15:38	Analyst: MGM
N-Ethylperfluorooctanesulfonamidoacetic Acid	ND		0.005	µg/L	1	3/25/2024 10:27 PM
N-Methylperfluorooctanesulfonamidoacetic Acid	ND		0.006	µg/L	1	3/25/2024 10:27 PM
Perfluorotetradecanoic Acid (PFTeA)	ND		0.008	µg/L	1	3/25/2024 10:27 PM
Perfluorotridecanoic Acid (PFTriA)	ND		0.007	µg/L	1	3/25/2024 10:27 PM
Surr: 13C2-PFDA	95.7		70-130	%REC	1	3/25/2024 10:27 PM
Surr: 13C2-PFHxA	101		70-130	%REC	1	3/25/2024 10:27 PM
Surr: 13C3-HFPO-DA	119		70-130	%REC	1	3/25/2024 10:27 PM
Surr: d5-N-EtFOSAA	79.5		70-130	%REC	1	3/25/2024 10:27 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 29-Mar-24

Client: Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township

Work Order: 24031147

Lab ID: 24031147-01B

Collection Date: 3/13/2024 8:50:00 AM

Client Sample ID: CC01

Matrix: SOURCE WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PFAS BY EPA 533			E533	Prep: E533 3/28/24 17:00		Analyst: ENS
11CI-Pf3OUdS	ND		0.005	µg/L	1	3/29/2024 04:59 AM
9CI-PF3ONS	ND		0.002	µg/L	1	3/29/2024 04:59 AM
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND		0.005	µg/L	1	3/29/2024 04:59 AM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.02	µg/L	1	3/29/2024 04:59 AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.004	µg/L	1	3/29/2024 04:59 AM
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	ND		0.005	µg/L	1	3/29/2024 04:59 AM
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	ND		0.005	µg/L	1	3/29/2024 04:59 AM
Perfluorobutanoic Acid (PFBA)	ND		0.005	µg/L	1	3/29/2024 04:59 AM
Perfluorobutanesulfonic Acid (PFBS)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoropentanoic Acid (PFPeA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoropentanesulfonic Acid (PFPeS)	ND		0.004	µg/L	1	3/29/2024 04:59 AM
Perfluorohexanoic Acid (PFHxA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluorohexanesulfonic Acid (PFHxS)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoroheptanoic Acid (PFHpA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluorooctanoic Acid (PFOA)	ND		0.004	µg/L	1	3/29/2024 04:59 AM
Perfluorooctanesulfonic Acid (PFOS)	ND		0.004	µg/L	1	3/29/2024 04:59 AM
Perfluorononanoic Acid (PFNA)	ND		0.004	µg/L	1	3/29/2024 04:59 AM
Perfluorodecanoic Acid (PFDA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluorododecanoic Acid (PFDoA)	ND		0.003	µg/L	1	3/29/2024 04:59 AM
Perfluoroundecanoic Acid (PFUnA)	ND		0.002	µg/L	1	3/29/2024 04:59 AM
Surr: 13C3-HFPO-DA	110		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C2-4-2-FTS	144		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C2-6-2-FTS	147		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C2-8-2-FTS	111		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C4-PFBA	120		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C3-PFBS	115		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C5-PFPeA	106		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C5-PFHxA	112		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C3-PFHxS	119		50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C4-PFHpA	115		50-200	%REC	1	3/29/2024 04:59 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 29-Mar-24

Client: Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township

Work Order: 24031147

Surr: 13C8-PFOA	108	50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C8-PFOS	117	50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C9-PFNA	96.7	50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C6-PFDA	91.4	50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C2-PFDoA	87.0	50-200	%REC	1	3/29/2024 04:59 AM
Surr: 13C7-PFUnDA	87.3	50-200	%REC	1	3/29/2024 04:59 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 29-Mar-24

Client: Suburban Laboratories, Inc.
 Work Order: 24031147
 Project: IL0315880 Leyden Township

QC BATCH REPORT

Batch ID: 237016 Instrument ID LCMS3 Method: E537.1

MBLK		Sample ID: MBLK-237016-237016				Units: µg/L		Analysis Date: 3/25/2024 06:20 PM			
Client ID:		Run ID: LCMS3_240325B				SeqNo: 10596263		Prep Date: 3/22/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
N-Ethylperfluorooctanesulfonamidoac	ND	0.0050									
N-Methylperfluorooctanesulfonamidoa	0.0007284	0.0060								J	
Perfluorotetradecanoic Acid (PFTeA)	ND	0.0080									
Perfluorotridecanoic Acid (PFTriA)	ND	0.0070									
Surr: 13C2-PFDA	0.0396	0	0.04	0	99	70-130	0				
Surr: 13C2-PFHxA	0.03802	0	0.04	0	95	70-130	0				
Surr: 13C3-HFPO-DA	0.04173	0	0.04	0	104	70-130	0				
Surr: d5-N-EtFOSAA	0.1432	0	0.16	0	89.5	70-130	0				

MS		Sample ID: 24031034-01A MS				Units: µg/L		Analysis Date: 3/27/2024 08:03 PM			
Client ID:		Run ID: LCMS3_240327B				SeqNo: 10605475		Prep Date: 3/22/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
N-Ethylperfluorooctanesulfonamidoac	0.001622	0.0050	0.001836	0.0001291	81.3	50-150	0			J	
N-Methylperfluorooctanesulfonamidoa	0.002106	0.0060	0.001836	0.0005913	82.5	50-150	0			J	
Perfluorotetradecanoic Acid (PFTeA)	0.001465	0.0070	0.001836	0.0000963	74.6	50-150	0			J	
Perfluorotridecanoic Acid (PFTriA)	0.001468	0.0060	0.001836	0.00009047	75	50-150	0			J	
Surr: 13C2-PFDA	0.03193	0	0.03673	0	86.9	70-130	0				
Surr: 13C2-PFHxA	0.03443	0	0.03673	0	93.7	70-130	0				
Surr: 13C3-HFPO-DA	0.03111	0	0.03673	0	84.7	70-130	0				
Surr: d5-N-EtFOSAA	0.1241	0	0.1469	0	84.4	70-130	0				

MSD		Sample ID: 24031034-01A MSD				Units: µg/L		Analysis Date: 3/27/2024 08:17 PM			
Client ID:		Run ID: LCMS3_240327B				SeqNo: 10605476		Prep Date: 3/22/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
N-Ethylperfluorooctanesulfonamidoac	0.001676	0.0050	0.001924	0.0001291	80.4	50-150	0.001622	0	50	J	
N-Methylperfluorooctanesulfonamidoa	0.002	0.0060	0.001924	0.0005913	73.2	50-150	0.002106	0	50	J	
Perfluorotetradecanoic Acid (PFTeA)	0.001395	0.0080	0.001924	0.0000963	67.5	50-150	0.001465	0	50	J	
Perfluorotridecanoic Acid (PFTriA)	0.001341	0.0070	0.001924	0.00009047	65	50-150	0.001468	0	50	J	
Surr: 13C2-PFDA	0.03541	0	0.03848	0	92	70-130	0.03193	10.3	50		
Surr: 13C2-PFHxA	0.03909	0	0.03848	0	102	70-130	0.03443	12.7	50		
Surr: 13C3-HFPO-DA	0.03613	0	0.03848	0	93.9	70-130	0.03111	14.9	50		
Surr: d5-N-EtFOSAA	0.1354	0	0.1539	0	88	70-130	0.1241	8.72	50		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Suburban Laboratories, Inc.
 Work Order: 24031147
 Project: IL0315880 Lcyden Township

QC BATCH REPORT

Batch ID: **237016** Instrument ID **LCMS3** Method: **E537.1**

LCS1		Sample ID: LCS-237016-237016			Units: µg/L		Analysis Date: 3/25/2024 06:34 PM			
Client ID:		Run ID: LCMS3_240325B			SeqNo: 10596266		Prep Date: 3/22/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Ethylperfluorooctanesulfonamidoac	0.001846	0.0050	0.002	0	92.3	50-150	0			J
N-Methylperfluorooctanesulfonamidoa	0.002428	0.0060	0.002	0	121	50-150	0			J
Perfluorotetradecanoic Acid (PFTeA)	0.001797	0.0080	0.002	0	89.8	50-150	0			J
Perfluorotridecanoic Acid (PFTriA)	0.00183	0.0070	0.002	0	91.5	50-150	0			J
Surr: 13C2-PFDA	0.0403	0	0.04	0	101	70-130	0			
Surr: 13C2-PFHxA	0.03757	0	0.04	0	93.9	70-130	0			
Surr: 13C3-HFPO-DA	0.04139	0	0.04	0	103	70-130	0			
Surr: d5-N-EtFOSAA	0.1447	0	0.16	0	90.4	70-130	0			

The following samples were analyzed in this batch: 24031147-01A 24031147-02A

Client: Suburban Laboratories, Inc.
 Work Order: 24031147
 Project: IL0315880 Leyden Township

QC BATCH REPORT

Batch ID: **237423** Instrument ID **LCMS3** Method: **E533**

MBLK	Sample ID: MBLK-237423-237423	Units: $\mu\text{g/L}$					Analysis Date: 3/29/2024 03:51 AM			
Client ID:	Run ID: LCMS3_240328B	SeqNo: 10611189	Prep Date: 3/28/2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
11CI-Pf3OUdS	ND	0.0050								
9CI-Pf3ONS	ND	0.0020								
4,8-Dioxa-3H-perfluorononanoic Acid (	ND	0.0030								
Hexafluoropropylene oxide dimer acid	ND	0.0050								
Nonafluoro-3,6-dioxaheptanoic acid (N	ND	0.020								
Perfluoro(2-ethoxyethane)sulfonic acid	ND	0.0030								
Perfluoro-4-methoxybutanoic acid (PFI	ND	0.0030								
Perfluoro-3-methoxypropanoic acid (PI	ND	0.0040								
Fluorotelomer Sulphonic Acid 4:2 (FtS	ND	0.0030								
Fluorotelomer Sulphonic Acid 6:2 (FtS	ND	0.0050								
Fluorotelomer Sulphonic Acid 8:2 (FtS	ND	0.0050								
Perfluorobutanoic Acid (PFBA)	ND	0.0050								
Perfluorobutanesulfonic Acid (PFBS)	ND	0.0030								
Perfluoropentanoic Acid (PFPeA)	ND	0.0030								
Perfluoropentanesulfonic Acid (PFPeS	ND	0.0040								
Perfluorohexanoic Acid (PFHxA)	ND	0.0030								
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.0030								
Perfluoroheptanoic Acid (PFHpA)	ND	0.0030								
Perfluoroheptanesulfonic Acid (PFHpS	ND	0.0030								
Perfluorooctanoic Acid (PFOA)	ND	0.0040								
Perfluorooctanesulfonic Acid (PFOS)	ND	0.0040								
Perfluorononanoic Acid (PFNA)	ND	0.0040								
Perfluorodecanoic Acid (PFDA)	ND	0.0030								
Perfluorododecanoic Acid (PFDoA)	ND	0.0030								
Perfluoroundecanoic Acid (PFUnA)	ND	0.0020								
Surr: 13C3-HFPO-DA	0.04434	0	0.04	0	111	50-200	0			
Surr: 13C2-4-2-FTS	0.2061	0	0.1504	0	137	50-200	0			
Surr: 13C2-6-2-FTS	0.2177	0	0.152	0	143	50-200	0			
Surr: 13C2-8-2-FTS	0.1827	0	0.1536	0	119	50-200	0			
Surr: 13C4-PFBA	0.047	0	0.04	0	117	50-200	0			
Surr: 13C3-PFBS	0.04556	0	0.0373	0	122	50-200	0			
Surr: 13C5-PFPeA	0.04316	0	0.04	0	108	50-200	0			
Surr: 13C5-PFHxA	0.04425	0	0.04	0	111	50-200	0			
Surr: 13C3-PFHxS	0.04741	0	0.0379	0	125	50-200	0			
Surr: 13C4-PFHpA	0.04472	0	0.04	0	112	50-200	0			
Surr: 13C8-PFOA	0.04676	0	0.04	0	117	50-200	0			
Surr: 13C8-PFOS	0.04757	0	0.0383	0	124	50-200	0			
Surr: 13C9-PFNA	0.04133	0	0.04	0	103	50-200	0			
Surr: 13C6-PFDA	0.04017	0	0.04	0	100	50-200	0			
Surr: 13C2-PFDoA	0.03726	0	0.04	0	93.1	50-200	0			
Surr: 13C7-PFUnDA	0.03747	0	0.04	0	93.7	50-200	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Suburban Laboratories, Inc.
 Work Order: 24031147
 Project: IL0315880 Leyden Township

QC BATCH REPORT

Batch ID: 237423 Instrument ID LCMS3 Method: E533

LCS		Sample ID: LCS-237423-237423				Units: µg/L		Analysis Date: 3/29/2024 04:04 AM		
Client ID:		Run ID: LCMS3_240328B				SeqNo: 10611190		Prep Date: 3/28/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
11CI-Pf3OUdS	0.001668	0.0050	0.00189	0	88.2	50-150	0			J
9CI-PF3ONS	0.00159	0.0020	0.00187	0	85	50-150	0			J
4,8-Dioxa-3H-perfluorononanoic Acid (	0.00144	0.0030	0.00189	0	76.2	50-150	0			J
Hexafluoropropylene oxide dimer acid	0.001674	0.0050	0.002	0	83.7	50-150	0			J
Nonafluoro-3,6-dioxaheptanoic acid (N	0.001794	0.020	0.002	0	89.7	50-150	0			J
Perfluoro(2-ethoxyethane)sulfonic acid	0.001603	0.0030	0.00178	0	90.1	50-150	0			J
Perfluoro-4-methoxybutanoic acid (PFI	0.001845	0.0030	0.002	0	92.3	50-150	0			J
Perfluoro-3-methoxypropanoic acid (PI	0.001938	0.0040	0.002	0	96.9	50-150	0			J
Fluorotelomer Sulphonic Acid 4:2 (FtS	0.002328	0.0030	0.00188	0	124	50-150	0			J
Fluorotelomer Sulphonic Acid 6:2 (FtS	0.002412	0.0050	0.0019	0	127	50-150	0			J
Fluorotelomer Sulphonic Acid 8:2 (FtS	0.00221	0.0050	0.00192	0	115	50-150	0			J
Perfluorobutanoic Acid (PFBA)	0.002048	0.0050	0.002	0	102	50-150	0			J
Perfluorobutanesulfonic Acid (PFBS)	0.0016	0.0030	0.00178	0	89.9	50-150	0			J
Perfluoropentanoic Acid (PFPeA)	0.00193	0.0030	0.002	0	96.5	50-150	0			J
Perfluoropentanesulfonic Acid (PFPeS	0.001766	0.0040	0.00188	0	94	50-150	0			J
Perfluorohexanoic Acid (PFHxA)	0.001798	0.0030	0.002	0	89.9	50-150	0			J
Perfluorohexanesulfonic Acid (PFHxS)	0.001636	0.0030	0.00183	0	89.4	50-150	0			J
Perfluoroheptanoic Acid (PFHpA)	0.001795	0.0030	0.002	0	89.8	50-150	0			J
Perfluoroheptanesulfonic Acid (PFHpS	0.001926	0.0030	0.00191	0	101	50-150	0			J
Perfluorooctanoic Acid (PFOA)	0.002024	0.0040	0.002	0	101	50-150	0			J
Perfluorooctanesulfonic Acid (PFOS)	0.001804	0.0040	0.00186	0	97	50-150	0			J
Perfluorononanoic Acid (PFNA)	0.002014	0.0040	0.002	0	101	50-150	0			J
Perfluorodecanoic Acid (PFDA)	0.001855	0.0030	0.002	0	92.8	50-150	0			J
Perfluorododecanoic Acid (PFDoA)	0.002195	0.0030	0.002	0	110	50-150	0			J
Perfluoroundecanoic Acid (PFUnA)	0.001994	0.0020	0.002	0	99.7	50-150	0			J
Surr: 13C3-HFPO-DA	0.04706	0	0.04	0	118	50-200	0			
Surr: 13C2-4-2-FtS	0.2127	0	0.1504	0	141	50-200	0			
Surr: 13C2-6-2-FtS	0.2259	0	0.152	0	149	50-200	0			
Surr: 13C2-8-2-FtS	0.1848	0	0.1536	0	120	50-200	0			
Surr: 13C4-PFBA	0.04815	0	0.04	0	120	50-200	0			
Surr: 13C3-PFBS	0.04666	0	0.0373	0	125	50-200	0			
Surr: 13C5-PFPeA	0.0449	0	0.04	0	112	50-200	0			
Surr: 13C5-PFHxA	0.04729	0	0.04	0	118	50-200	0			
Surr: 13C3-PFHxS	0.04788	0	0.0379	0	126	50-200	0			
Surr: 13C4-PFHpA	0.04776	0	0.04	0	119	50-200	0			
Surr: 13C8-PFOA	0.04817	0	0.04	0	120	50-200	0			
Surr: 13C8-PFOS	0.04832	0	0.0383	0	126	50-200	0			
Surr: 13C9-PFNA	0.04342	0	0.04	0	109	50-200	0			
Surr: 13C6-PFDA	0.04074	0	0.04	0	102	50-200	0			
Surr: 13C2-PFDoA	0.03793	0	0.04	0	94.8	50-200	0			
Surr: 13C7-PFUnDA	0.03826	0	0.04	0	95.6	50-200	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Suburban Laboratories, Inc.
 Work Order: 24031147
 Project: IL0315880 Leyden Township

QC BATCH REPORT

Batch ID: 237423 Instrument ID LCMS3 Method: E533

MS		Sample ID: 24031158-01B MS				Units: µg/L		Analysis Date: 3/29/2024 04:18 AM		
Client ID:		Run ID: LCMS3_240328B				SeqNo: 10611191		Prep Date: 3/28/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
11CI-PF3OUdS	0.002047	0.0040	0.001688	0.0001033	115	50-150	0			J
9CI-PF3ONS	0.001668	0.0020	0.001671	0.00005737	96.4	50-150	0			J
4,8-Dioxa-3H-perfluorononanoic Acid (	0.00126	0.0030	0.001688	0	74.6	50-150	0			J
Hexafluoropropylene oxide dimer acid	0.002103	0.0040	0.001787	0	118	50-150	0			J
Nonafluoro-3,6-dioxaheptanoic acid (N	0.001644	0.020	0.001787	0.00009932	86.5	50-150	0			J
Perfluoro(2-ethoxyethane)sulfonic acid	0.001523	0.0030	0.00159	0	95.8	50-150	0			J
Perfluoro-4-methoxybutanoic acid (PFI	0.001858	0.0030	0.001787	0	104	50-150	0			J
Perfluoro-3-methoxypropanoic acid (PI	0.001877	0.0040	0.001787	0	105	50-150	0			J
Fluorotelomer Sulphonic Acid 4:2 (FtS	0.002078	0.0030	0.00168	0	124	50-150	0			J
Fluorotelomer Sulphonic Acid 6:2 (FtS	0.001576	0.0040	0.001697	0.0002732	76.7	50-150	0			J
Fluorotelomer Sulphonic Acid 8:2 (FtS	0.002091	0.0040	0.001715	0	122	50-150	0			J
Perfluorobutanoic Acid (PFBA)	0.003171	0.0040	0.001787	0.001281	106	50-150	0			J
Perfluorobutanesulfonic Acid (PFBS)	0.002653	0.0030	0.00159	0.001227	89.6	50-150	0			J
Perfluoropentanoic Acid (PFPeA)	0.002868	0.0030	0.001787	0.001235	91.4	50-150	0			J
Perfluoropentanesulfonic Acid (PFPeS	0.001366	0.0040	0.00168	0.00007279	77	50-150	0			J
Perfluorohexanoic Acid (PFHxA)	0.002726	0.0030	0.001787	0.001144	88.5	50-150	0			J
Perfluorohexanesulfonic Acid (PFHxS)	0.002024	0.0030	0.001635	0.0005178	92.1	50-150	0			J
Perfluoroheptanoic Acid (PFHpA)	0.001852	0.0030	0.001787	0.0003033	86.7	50-150	0			J
Perfluoroheptanesulfonic Acid (PFHpS	0.001691	0.0030	0.001706	0.0000459	96.4	50-150	0			J
Perfluorooctanoic Acid (PFOA)	0.002647	0.0040	0.001787	0.001012	91.5	50-150	0			J
Perfluorooctanesulfonic Acid (PFOS)	0.002935	0.0040	0.001662	0.001264	101	50-150	0			J
Perfluorononanoic Acid (PFNA)	0.002026	0.0040	0.001787	0.0003335	94.7	50-150	0			J
Perfluorodecanoic Acid (PFDA)	0.002009	0.0030	0.001787	0.0001144	106	50-150	0			J
Perfluorododecanoic Acid (PFDoA)	0.003419	0.0030	0.001787	0.0002682	176	50-150	0			S
Perfluoroundecanoic Acid (PFUnA)	0.002284	0.0020	0.001787	0.000123	121	50-150	0			
Surr: 13C3-HFPO-DA	0.04056	0	0.03573	0	114	50-200	0			
Surr: 13C2-4-2-FTS	0.2142	0	0.1344	0	159	50-200	0			
Surr: 13C2-6-2-FTS	0.2479	0	0.1358	0	183	50-200	0			
Surr: 13C2-8-2-FTS	0.1523	0	0.1372	0	111	50-200	0			
Surr: 13C4-PFBA	0.04006	0	0.03573	0	112	50-200	0			
Surr: 13C3-PFBS	0.03716	0	0.03332	0	112	50-200	0			
Surr: 13C5-PFPeA	0.03708	0	0.03573	0	104	50-200	0			
Surr: 13C5-PFHxA	0.03956	0	0.03573	0	111	50-200	0			
Surr: 13C3-PFHxS	0.03976	0	0.03386	0	117	50-200	0			
Surr: 13C4-PFHpA	0.04084	0	0.03573	0	114	50-200	0			
Surr: 13C8-PFOA	0.0402	0	0.03573	0	112	50-200	0			
Surr: 13C8-PFOS	0.03821	0	0.03422	0	112	50-200	0			
Surr: 13C9-PFNA	0.03666	0	0.03573	0	103	50-200	0			
Surr: 13C6-PFDA	0.03475	0	0.03573	0	97.2	50-200	0			
Surr: 13C2-PFDoA	0.02856	0	0.03573	0	79.9	50-200	0			
Surr: 13C7-PFUnDA	0.03113	0	0.03573	0	87.1	50-200	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Suburban Laboratories, Inc.
 Work Order: 24031147
 Project: IL0315880 Lcyden Township

QC BATCH REPORT

Batch ID: 237423 Instrument ID LCMS3 Method: E533

MSD		Sample ID: 24031158-01B MSD				Units: µg/L		Analysis Date: 3/29/2024 04:32 AM			
Client ID:		Run ID: LCMS3_240328B				SeqNo: 10611192		Prep Date: 3/28/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
11CI-Pf3OUdS	0.001944	0.0050	0.001866	0.0001033	98.6	50-150	0.002047	0	50	J	
9CI-PF3ONS	0.001805	0.0020	0.001846	0.00005737	94.6	50-150	0.001668	0	50	J	
4,8-Dioxa-3H-perfluorononanoic Acid (	0.001601	0.0030	0.001866	0	85.8	50-150	0.00126	0	50	J
Hexafluoropropylene oxide dimer acid	0.001634	0.0050	0.001974	0	82.7	50-150	0.002103	0	50	J	
Nonafluoro-3,6-dioxaheptanoic acid (N	0.001983	0.020	0.001974	0.00009932	95.4	50-150	0.001644	0	50	J	
Perfluoro(2-ethoxyethane)sulfonic acid	0.001815	0.0030	0.001757	0	103	50-150	0.001523	0	50	J	
Perfluoro-4-methoxybutanoic acid (PFI	0.002162	0.0030	0.001974	0	110	50-150	0.001858	0	50	J	
Perfluoro-3-methoxypropanoic acid (PI	0.002353	0.0040	0.001974	0	119	50-150	0.001877	0	50	J	
Fluorotelomer Sulphonic Acid 4:2 (FtS	0.002652	0.0030	0.001856	0	143	50-150	0.002078	0	50	J	
Fluorotelomer Sulphonic Acid 6:2 (FtS	0.001712	0.0050	0.001876	0.0002732	76.7	50-150	0.001576	0	50	J	
Fluorotelomer Sulphonic Acid 8:2 (FtS	0.001946	0.0050	0.001895	0	103	50-150	0.002091	0	50	J	
Perfluorobutanoic Acid (PFBA)	0.002317	0.0050	0.001974	0.001281	52.5	50-150	0.003171	0	50	J	
Perfluorobutanesulfonic Acid (PFBS)	0.001971	0.0030	0.001757	0.001227	42.3	50-150	0.002653	0	50	JS	
Perfluoropentanoic Acid (PFPeA)	0.002062	0.0030	0.001974	0.001235	41.9	50-150	0.002868	0	50	JS	
Perfluoropentanesulfonic Acid (PFPeS	0.002101	0.0040	0.001856	0.00007279	109	50-150	0.001366	0	50	J	
Perfluorohexanoic Acid (PFHxA)	0.001984	0.0030	0.001974	0.001144	42.6	50-150	0.002726	0	50	JS	
Perfluorohexanesulfonic Acid (PFHxS)	0.001824	0.0030	0.001807	0.0005178	72.3	50-150	0.002024	0	50	J	
Perfluoroheptanoic Acid (PFHpA)	0.001906	0.0030	0.001974	0.0003033	81.2	50-150	0.001852	0	50	J	
Perfluoroheptanesulfonic Acid (PFHpS	0.002152	0.0030	0.001885	0.0000459	112	50-150	0.001691	0	50	J	
Perfluorooctanoic Acid (PFOA)	0.001987	0.0040	0.001974	0.001012	49.4	50-150	0.002647	0	50	JS	
Perfluorooctanesulfonic Acid (PFOS)	0.00206	0.0040	0.001836	0.001264	43.4	50-150	0.002935	0	50	JS	
Perfluorononanoic Acid (PFNA)	0.002184	0.0040	0.001974	0.0003335	93.8	50-150	0.002026	0	50	J	
Perfluorodecanoic Acid (PFDA)	0.002111	0.0030	0.001974	0.0001144	101	50-150	0.002009	0	50	J	
Perfluorododecanoic Acid (PFDoA)	0.002423	0.0030	0.001974	0.0002682	109	50-150	0.003419	0	50	J	
Perfluoroundecanoic Acid (PFUnA)	0.002139	0.0020	0.001974	0.000123	102	50-150	0.002284	6.55	50		
Surr: 13C3-HFPO-DA	0.03791	0	0.03949	0	96	50-200	0.04056	6.76	30		
Surr: 13C2-4-2-FTS	0.1818	0	0.1485	0	122	50-200	0.2142	16.3	30		
Surr: 13C2-6-2-FTS	0.2087	0	0.15	0	139	50-200	0.2479	17.2	30		
Surr: 13C2-8-2-FTS	0.1573	0	0.1516	0	104	50-200	0.1523	3.24	30		
Surr: 13C4-PFBA	0.04108	0	0.03949	0	104	50-200	0.04006	2.53	30		
Surr: 13C3-PFBS	0.03881	0	0.03682	0	105	50-200	0.03716	4.33	30		
Surr: 13C5-PFPeA	0.03707	0	0.03949	0	93.9	50-200	0.03708	0.0208	30		
Surr: 13C5-PFHxA	0.03896	0	0.03949	0	98.7	50-200	0.03956	1.53	30		
Surr: 13C3-PFHxS	0.03993	0	0.03741	0	107	50-200	0.03976	0.404	30		
Surr: 13C4-PFHpA	0.03957	0	0.03949	0	100	50-200	0.04084	3.16	30		
Surr: 13C8-PFOA	0.04024	0	0.03949	0	102	50-200	0.0402	0.088	30		
Surr: 13C8-PFOS	0.03884	0	0.03781	0	103	50-200	0.03821	1.63	30		
Surr: 13C9-PFNA	0.03695	0	0.03949	0	93.6	50-200	0.03666	0.785	30		
Surr: 13C6-PFDA	0.03491	0	0.03949	0	88.4	50-200	0.03475	0.442	30		
Surr: 13C2-PFDoA	0.03195	0	0.03949	0	80.9	50-200	0.02856	11.2	30		
Surr: 13C7-PFUnDA	0.03247	0	0.03949	0	82.2	50-200	0.03113	4.21	30		

The following samples were analyzed in this batch: 24031147-01B 24031147-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Suburban Laboratories, Inc.
Work Order: 24031147
Project: IL0315880 Leyden Township

QC BATCH REPORT

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



CHAIN OF CUSTODY RECORD

Omega COCID 41911

PAGE: 1

OF: 1

ADDRESS

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150
Geneva, IL 60134
TEL: (708) 544-3260
FAX: (708) 544-8587
Website: www.suburbanlabs.com

SUB CONTRACTOR: ALS - MICHIGAN	COMPANY: ALS - Environmental Division	SPECIAL INSTRUCTIONS / COMMENTS: PWS IL0315880 Leyden Township - please only analyze field blanks if there are hits in sample, please email results to drinkingwater@suburbanlabs.com
ADDRESS: 3352 128th Ave		
CITY, STATE, ZIP: Holland, MI 49424		
PHONE: (616) 399-6070 FAX: _____ EMAIL: _____		
ACCOUNT #:		

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2403B29-001A 533_SUB	CC01 533	P-8OZ - AMMAC	Drinking Water	3/13/2024 8:50:00 AM	4	533_SUB(1/2):
2	2403B29-002A 533_SUB	CC01 533 FIELD B	P-8OZ - AMMAC	Drinking Water	3/13/2024 8:28:00 AM	1	533_SUB(1/2):
3	2403B29-003A 537_SUB	CC01 537	P-8OZ - AMMAC	Drinking Water	3/13/2024 8:40:00 AM	4	537_SUB(1/2):
4	2403B29-004A 537_SUB	CC01 537 FIELD B	P-8OZ - AMMAC	Drinking Water	3/13/2024 8:40:00 AM	1	537_SUB(1/2):

24031147

SUBI ABS Suburban Laboratories, Inc.
Project: IL0315880 Leyden Township



Relinquished By: <i>[Signature]</i>	Date: <i>3/14/24</i>	Time: <i>1100</i>	Received By: <i>[Signature]</i>	Date: _____	Time: _____	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples <i>3.5 C</i> °C Attempt to Cool? _____ Comments: <i>[Signature]</i>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: <i>3-15-24</i>	Time: <i>1000</i>	
TAT: Standard <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Note: RUSH requests will incur surcharges!

Sample Receipt Checklist

Client Name: SUBLABS

Date/Time Received: 15-Mar-24 10:00

Work Order: 24031147

Received by: JD

Checklist completed by Jason Delinger 15-Mar-24
eSignature Date

Reviewed by: Alex J. Csaszar 15-Mar-24
eSignature Date

Matrices: Water

Carrier name: UPS

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.3/4.3 c"/>		<input type="text" value="ir3"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="3/15/2024 2:29:47 PM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

Corrective Action: