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July 8, 2022

Liberty New York Water – Merrick Operations District PWS ID No. NY2902840 MCL Deferral for 1,4-Dioxane Quarterly Report – Second Quarter 2022

Introduction

On behalf of Liberty New York Water (Liberty), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-Dioxane. Liberty's Merrick Operations District was granted an MCL deferral for 1,4-Dioxane in 2020 due to its proactive efforts toward the implementation of treatment for this compound.

Contractors and water suppliers have been experiencing a disruption in the supply chain of chemical supplies, equipment, infrastructure components, pipe and materials (e.g., steel), and treatment systems, both nationwide and locally. Shortages of these necessary items have significantly impacted the District, primarily in terms of price increases, decreased availability, and longer lead times. In addition, due to the rapidly-changing regulatory environment, the local and state regulators are experiencing a large number of capital project submissions, in addition to their regular workload, which have led to an increase in the regulatory review times of engineering reports, detailed design plans, and specifications. In many cases, these factors, which are out of the District's control, have caused delays in obtaining final regulatory approval, commencing construction, procuring equipment and necessary components, and conforming to proposed construction schedules.

The District has done everything within its power to adhere to the project schedules approved in the original deferral request, as described in the previous quarterly deferral reports. Although compliance deferrals were issued early on, the full impact of supply chain issues and delays were not yet known and, due to regulatory changes through the imposition of an expanded list of contaminants with lower regulatory advisory levels or MCLs, these delays are expected to become worse before improving due to increased national demand. The current supply chain and regulatory environment changes are unprecedented, and the wide reach of their impact could not have been anticipated at the time when project schedules were originally developed. In light of these exceptional circumstances, the District anticipates the need for both a 12-month deferral extension as well as additional time consideration in completing the project under the impacts caused by these supply chain issues. The District's goal, as always, is to provide an adequate supply of potable water to its community and will continue to move forward on these projects to further that goal.

Liberty New York Water – Merrick Operations District PWS ID No. NY2902840 MCL Deferral for 1,4-Dioxane Quarterly Report – Second Quarter 2022

The enclosed is a report describing Liberty's progress towards maintaining the highest quality of water for the customers in the Merrick Operations District, and meeting the deadlines set forth in the deferral approval. The schedule for the project is contained in **Attachment A**.

Corrective Action Plan Milestones

Advanced Oxidation Process (AOP) Treatment System for Seamans Neck Road Wells 3A and 4

Liberty is currently finalizing funding approval and finalizing the contract for AOP construction. The goal is to begin construction on or about September 1, 2022. The AOP treatment system is expected to be in service in the fourth quarter of 2023. Iron Removal Facility (IRF) improvements, which are required for the AOP operation, are currently in the design and permitting stage, with the goal of construction being accomplished from the fourth quarter of 2022 to the second quarter of 2023 and being placed in-service in the second quarter of 2023. Booster plants to support pressure needs in the Seamans Neck area are in the final stages of design.

Public Notification

Public notification regarding the presence and regulation of emerging compounds, as well as the deferral, was included in the former New York American Water (NYAW) 2020 Annual Water Quality Report(AWQR)/Consumer Confidence Report released in May 2021, posted on the former NYAW website at libertyutilities.com and publicized via newspaper ads and bill insert. The most recent 2021 AWQR specific to the Liberty-Merrick Operations District provides public notification of the deferral as well and is available at https://new-york-water.libertyutilities.com/uploads/Merrick_CCR.pdf.

In addition, Liberty has uploaded this quarterly report to its website at https://new-york-water.libertyutilities.com/all/residential/safety/seamans-neck-public-notification.html.

Documentation of the public notification is contained in **Attachment B**.

Analytical Sampling

Sample results for the wells for which deferrals were granted (Seamans Neck Wells 3A and 4), taken during the second quarter of 2022 are contained in the below table. Jefferson Street Well 11 is included as well, as 1,4-Dioxane levels were reported in the first quarter report at 1.0 micrograms per Liter (ug/L or parts per billion, ppb), in the second quarter report at 0.021 ug/L, and at <0.020 ug/L in both the third and fourth quarter sampling of 2021. Liberty will continue to report on 1,4-Dioxane concentrations detected in Well 11. Full laboratory reports for each sample are contained in **Attachment C**.

Liberty New York Water – Merrick Operations District PWS ID No. NY2902840 MCL Deferral for 1,4-Dioxane Quarterly Report – Second Quarter 2022

Second Quarter 2022 1,4-Dioxane Water Quality Monitoring Results (ug/L or ppb)

Merrick OPS District (PWS# NY2902840)											
Location	Well ID #	Date Sampled	Lab Utilized	1-4, Dioxane (ug/L)							
Seamans Neck Wells 3A and 4 Combined	N-14347 and N-09338	05/11/2022	Pace	1.6							
Seamans Neck Well 4	N-09338	05/11/2022	Pace	1.7							
Jefferson St. Well 11	N-07407	05/11/2022	Pace	ND							
Seamans Neck Well 3A	N-14347	05/19/2022	Pace	1.9							

Conclusion

As demonstrated above, Liberty is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH. Liberty looks forward to continuing to work towards completion of its treatment facilities for the Merrick Operations District.

Should you have any questions, please contact the undersigned at (516) 364-9890, Ext. 3401, or visit the website, https://www.libertyenergyandwater.com.

Very truly yours,

Philip Sachs, P.E. Vice President

PRS/LOt/kb

Enclosures

cc: K. Wheeler (NYSDOH)

B. Rogers (NYSDOH)

W. Provoncha (NCDH)

P. Young (NCDH)

R. Putnam (NCDH)

C. Alario (Liberty)

J. Kilpatrick (Liberty)

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ATTACHMENT A

MCL Deferral Project Schedule

Liberty New York Water Merrick Operations District MCL Deferral

Seamans Neck Road Wells 3A and 4 AOP Project Schedule

Merrick Operations District	weils 3A and 4
MCL Deferral	AOP Project Schedule
ask Name	2021
Pilot Test (Complete)	Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
Basis of Design Report (Complete)	
Regulatory Review of BODR (Complete)	
Detailed Design (Complete)	
Regulatory Review of Contract Documents (In Progress)	
Town Zoning Process (Complete)	
Construction (In Progress)	
Startup and Regulatory Acceptance Testing	

ATTACHMENT B

Public Notification Documentation















Service Area 2–South Shore: Merrick Operations District

Public Water Supply ID# NY2902840

This report complies with Part 5-1.72, New York State Sanitary Code (10 NYCCR) and federal Consumer Confidence Report regulations (40 CFR Part 141, Subpart 0).

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

本报告与您的饮用水有关。 如果您不了解其内容,应请别人为您翻译解说:

이 보고서에는 귀하께서 사용하고 계시는 식수에 관한 정보가 들어있습니다. 만약에 이해를 못하시면 누군가에게 번역을 의뢰하십시오.

A Message from the New York American Water President



To Our Valued Customer:

Thank you for the opportunity to serve you. I am pleased to share our **Annual Water Quality Report** with you – this is our report card on the quality of the drinking water delivered to our customers. The report shows that we continue to supply you with water that

meets or surpasses all county, state, and federal water quality standards. We encourage our customers to review this report as it provides important details about the source and quality of your drinking water between January and December 2020.

New York American Water (NYAW) invests in our infrastructure to deliver quality drinking water to our customers. This includes the facilities and technology needed to draw water from the source and treat it, along with miles and miles of pipeline hidden below the ground to bring water to your tap. In addition, our plant operators, water quality experts, engineers and maintenance crews work around the clock to provide you with quality water.



Delivering safe, reliable water service requires significant investment to maintain and upgrade aging facilities. In 2020, we invested approximately \$62 million in system improvements. NYAW is also making important investments in water treatment technology to comply with New York State Department of Health's (NYSDOH) new drinking water standards for emerging compounds, specifically 1,4-Dioxane, PFOA, and PFOS.

The COVID-19 public health emergency highlighted how essential water is for public health. We remain steadfast in our commitment to delivering safe and reliable water service while maintaining a safe environment for our employees and customers. NYAW extends our sincerest gratitude to our field employees as well as all frontline workers and essential employees who are on the job and keeping life flowing. Thank you!

Sincerely,

Lynda DiMenna

President, New York American Water

Public Participation – How You Can Get Involved

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- Attending open houses conducted by the company
- Responding to survey requests
- Attending presentations by the company made to local community and civic associations
- Contacting agencies such as the Nassau County Health Department (NCDOH) at 516-227-9692



Be Water Smart - Think Conservation

The New York State Department of Environmental Conservation requested that all Long Island water suppliers reduce their peak pumpage by 15 percent to protect the long-term sustainability of the Long Island aquifer. Our customers must conserve water to help us achieve this goal. When our customers conserve, not only do they reduce their water bill, but NYAW is able to defer infrastructure investment projects that are needed to meet peak water demand, which can reach as high as 50 million gallons of water a day in the summer.

The following suggestions will help you make your home "water efficient" without sacrificing comfort or changing lifestyles:

- Install smart irrigation technology on your irrigation system to irrigate as efficiently as possible.
- Install a moisture sensor on your irrigation system to prevent wasteful watering during or just after a rain.
- Use native, drought-resistant shrubs, trees, plants, and grasses in your landscape.
- Run dishwashers and washing machines only with full loads.
- Turn off the tap when brushing your teeth or shaving.
- Check every faucet for leaks. Even a slow drip can waste 15 to 20 gallons a day, or about 6,000 gallons a year.
- If you suspect that you have a water leak, order our free Leak Detection Kit. The kit contains information, and dye tablets to help you determine if you have a wasteful water loss. Call our customer call center or 516-632-2244 to order.
- Replace older devices with water-saving showerheads, faucets, or low flush toilets. A normal showerhead uses 5 to 7 gallons a minute. Switching to a low-flow model that uses 1.5 gallons a minute can save a family thousands of gallons of water a year.

What is a Water Quality Report?

To assure that water is safe to drink, the U.S. Environmental Protection Agency (USEPA), and the Health Departments of New York State and Nassau County, set regulations for water quality and indicate the levels of various substances that are acceptable in public drinking water. This report explains how our water measures up to those standards. As you can see by the results, our water quality is excellent.

The NYSDOH) and the U.S. Food & Drug Administration regulate and set limits for substances in bottled water, which must also provide protection for public health.

During 2020, our system was in compliance with applicable NYS drinking water operating, monitoring and reporting requirements. If you have questions about this report, please contact our Water Quality Manager at 516-632-2239.

Share This Report:

Landlords, businesses, schools, hospitals, and others are encouraged to share this important water quality information with water users at their location who are not direct customers of NYAW. Additional copies of this report are available by contacting us at 516-632-2239.

How to Contact Us

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers protect our water sources, which are the heart of our community. Please call our Customer Call Center toll-free if you have questions:

NYAW:

Customer Call Center: 1-877-426-6999 (M-F; 7am-7pm)

Emergencies: 1-877-426-6909 (24 hours)

TDD (Hearing/Speech impaired): 1-800-300-6202

Online: www.newyorkamwater.com

Merrick Administrative Office:

New York American Water 60 Brooklyn Avenue, Merrick, NY 11566 516-632-2232

Billing Payment Address:

New York American Water PO BOX 371332 Pittsburgh, PA 15250-7332

Water Information Sources:

NYSDOH

1-518-473-8600 • www.health.state.ny.us

NCDOH

516-227-9692 • www.co.nassau.ny.us/health

New York State Department of Public Service 1-800-342-3377 • www.dps.state.ny.us

www.epa.gov/safewater

EPA Safe Drinking Water Hotline 1-800-426-4791

American Water Works Association

www.awwa.org

Water Quality Association

www.wqa.org

About NYAW

NYAW, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water company in New York, providing high-quality and reliable water and/or wastewater services to approximately 350,000 people.

About American Water

With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 6,800 dedicated professionals who provide regulated and market-based drinking water,



wastewater, and other related services to more than 14 million people in 46 states. American Water provides safe, clean, affordable, and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on Twitter, Facebook and LinkedIn.

Communities Served

Bellmore
East Massapequa*
Levittown*
Massapequa*
Merrick
North Bellmore
North Merrick
North Seaford
North Wantagh
Seaford
Wantagh
*community partially served

Average Residential Usage & Cost

In 2020, the average residential household used approximately 105,353 gallons of water at a cost of about \$646, or \$1.77 a day. With an average of 3.0 persons per household, the cost of water was about 59¢ a day per person.

Source, Quality & Quantity

Groundwater is the source of your drinking water supply. It is drawn from 16 wells located in the aquifer system beneath the land surface.

The Aquifers

The aquifers are water-bearing geologic deposits of sand and clay that absorb and store about 45 percent of the rain and snow that fall on Long Island. NYAW– Merrick Operations Center has wells in the Magothy aquifer.

Not all wells are operating at the same time, which means that the water you receive is a blend of treated water from different well locations (an integrated system).

North

Long Island's Aquifers

Barrier Beach

Atlantic Ocean

Cocan

Magothy

Bedrock

Bay

Allantic Ocean

Bedrock

Bedrock

Bay

Allantic Ocean

Allantic Ocean

Allantic Ocean

Bedrock

Not to scale

If you have a private well which is unregulated and untested, you should not use the water for drinking or cooking.

(Source: NCDOH)

Source Water Assessment

The NYSDOH, with assistance from the local health department and a consulting firm, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected (if any). The source water assessments provide resource managers with additional information for protecting source waters into the future.

Drinking water is derived from 16 wells. The source water assessment has rated most of the wells as having a very high susceptibility to industrial solvents and a high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/ industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to residential, commercial, and institutional land use and related practices in the assessment area, such as fertilizing lawns.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting our Water Quality Manager at 516-632-2239.

How is Your Water Treated?

Our water supply is obtained from wells located throughout our service area, and average about 500 feet in depth. In our area of southeastern Nassau County, the soil has naturally high iron and mineral content. The water dissolves these naturally occurring minerals, and while they are not health hazards, they can cause discolored water issues. Bacteriological pollutants are not usually present in wells at the average depth of 500 feet and, consequently, water directly from the well is drinkable. However, water treatment is required to protect the water in the distribution system and to minimize discolored water conditions.

Treatment consists of:

 Chlorination for bacteriological disinfection (using Sodium Hypochlorite)



- 2. Caustic Soda (Sodium Hydroxide) to raise pH and minimize corrosivity to water mains and household plumbing
- 3. Filtration to remove iron at three well locations
- 4. Calciquest (Phosphate compound) to stabilize or sequester the iron not removed by filtration, and to act as a corrosion control inhibitor.
- Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).

We take steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor (Calciquest is an Orthophosphate compound) to the water leaving our treatment facilities. There are steps that you can take to reduce your household's exposure to lead in drinking water. For more information, please review our Lead and Drinking Water Fact Sheet at:

www.nyamwater.com/water-quality/lead-and-drinkingwater

System Improvements

In 2020, we continued to make significant upgrades to our system and infrastructure. These improvements include:

- Replaced 14,893 feet of water main throughout the service territory.
- Replaced 10 fire hydrants.
- Replaced 114 service lines.
- Replaced 8,014 water meters.
- Completed replacement of the iron filtration media and drilled a new 3 Million-Gallon-Per-Day water supply well at the Newbridge Road Treatment Plant in North Bellmore.
- Drilled a new 3 Million-Gallon-Per-Day water supply well at the Jefferson Plant in Merrick.
- Completed design of a 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.

Improvements planned for 2021 include:

- Replace approximately 14,700 feet of water main.
- Replace 5 fire hydrants.
- Replace 120 service lines.
- Replace approximately 1,500 water meters.
- Construct new well buildings at the Jefferson St. Plant in Merrick, and the Newbridge Plant in North Bellmore.
- Breaking ground on construction of the 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.
- Drilling of a replacement 3 Million-Gallon-Per-Day water supply well at the Sunrise Mall Well Site in Massapequa.

Do I Need to Take Special Precautions?

To ensure that tap water is safe to drink, the USEPA prescribes regulations limiting the number of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish

limits for contaminants in bottled water, which must provide the same protection for public health. 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 Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Although our drinking water meets all state and federal regulations, some people may be more vulnerable to disease-causing microorganisms or pathogens 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 from their health care provider about their drinking water.

If you have questions, contact the NCDOH at 516-227-9692. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium*, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Substances Expected to be in Drinking Water

In general terms, the sources of drinking water (both tap 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 can pick up substances resulting from the presence of animals or from human activities.

Substances that may be present in source water include:

- Microbiological Contaminants: Such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- Inorganic Contaminants (IOC's): Such as salts and metals which can be naturally occurring or may result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and Herbicides (SOC's): Which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- Organic Chemical Contaminants (VOC's): Including synthetic and volatile organic chemicals which are byproducts of industrial processes and petroleum production, and may also come from gas stations, urban storm water runoff and septic systems.
- Radioactive Contaminants: Which can be naturally occurring or may be the result of oil and gas production and mining activities.



For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Cryptosporidiosis & Giardiasis

Although there have been no cases of Cryptosporidiosis in Nassau County attributable to the water supply, you should be aware of the risks to people with severely weakened immune systems. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by microscopic parasites that can be transmitted several ways including through drinking water. Cryptosporidiosis can be very serious for people with weak immune systems, such as transplant patients; individuals receiving chemotherapy or dialysis, and people with Crohn's disease or HIV infection. Individuals who think they may have been exposed to Cryptosporidiosis or Giardiasis should contact their health care providers immediately.

Immuno-compromised patients who may have been advised by their health care provider that they may be at risk, especially when traveling, should observe the following:

- One minute of boiling water at a rolling boil will kill Cryptosporidium parvum and Giardia lamblia.
- Drinking bottled water does not guarantee that the water is free from Cryptosporidiosis or Giardiasis.

Contact your health care provider about your options. If you have questions, contact the NCDOHat 516-227-9692.

Lead & Copper Rule Statements

The Lead and Copper Rule requires sampling for lead and copper at the tap. In 1992, the first-year testing was required; tap water was sampled in compliance with EPA regulations. Test results were excellent: at least 90 percent of the lead tests were well below 10 parts per billion, and for copper, below 0.5 parts per million, indicating that the company's corrosion control treatment processes continue to be effective. The same tests were done roughly every three years from 1997 through 2020 with similar results. We are on an approved reduced monitoring schedule, and the next round of homeowner monitoring for the Lead and Copper Rule was completed in the summer of 2023. 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. New York American Water is responsible for providing high quality drinking water but 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 drinking 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 at 1-800-426-4791 or at http://www.epa.gov/safewater/lead.

How do I read the Water Quality Table?

The Water Quality Table – "Table of Detected Contaminants" is the most important section in this report, containing details on New York American Water's comprehensive testing program for drinking water at the tap. It compares the results from tests we performed in 2020 (and earlier) with the health standards established by federal, state, and local health authorities. Of approximately 165 substances or parameters tested, detectable levels were found for about 35; and these levels are trace amounts, well below the levels set to protect public health.

To review the quality of your drinking water, compare the result in the "Maximum Amount Detected" column with the Standard in the "MCL" column. That Standard is the highest level that is considered safe for drinking water. To be in compliance, the High result in the "Range: Low-High" column should be lower than the MCL Standard. For example, under Metals & Inorganic Substances, the "MCL" standard for Barium is 2,000 ppb and the "Maximum Amount Detected" result is 120 ppb, well below the maximum allowed level (or "MCL").

Also review the "Compliance Achieved" and "Violation" columns to determine if New York American Water violated any standards. As you can see, our system had no violations. Further evidence of the quality of our water can be seen in the "Listing of Non-Detected (ND) Contaminants" — An extensive list of substances that we tested for and did not find in our distribution system and/or water sources.

The **Definition of Terms** below provides further explanation of the data.

Definitions of Terms Used in This Report

- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- 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.
- 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.
- MGD = Million Gallons per Day
- 90th Percentile Value: The values reported in the "Lead and Copper Rule" section represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90 percent of the lead and copper values detected in your water system.
- N/A: Not applicable



- None Detected (ND): Laboratory analysis indicates that the constituent is not present at the method detection level.
- Parts Per Million (ppm): Corresponds to one part of liquid in one million parts of liquid [Equivalent to "milligrams per liter" (mg/L)].
- Parts per Billion (ppb): Corresponds to one part of liquid in one billion parts of liquid [Equivalent to "micrograms per liter" (µg/L)].
- Parts per Trillion (ppt): Corresponds to one part of liquid in one trillion parts of liquid [Equivalent to "nanograms per liter"; or one second in approximately 31,506 years].
- Picocuries per liter (pCi/L): A measure of the radioactivity in water.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in the water.

Water Quality Facts

To provide high quality water, individual water samples are taken each year for chemical, physical, and microbiological tests. Testing can pinpoint a potential problem so that preventive action may be taken.

Tests are done on water taken from the well ("raw water"), water within our treatment facilities, water exiting our treatment plants at the point-of-entry to the distribution system, and from sites located throughout our distribution system after treatment. These tests are conducted in the company's state certified laboratory, by the NCDOH Laboratory, and by independent, certified laboratories approved by the state, who report results simultaneously to

the company and to the Health Department. NYS allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year-to-year. Some of the data, though representative of the water quality, are more than one year old.

For a copy of the Water Supplement containing detailed data on testing at the source water wells before treatment, call us at 516-632-2239 and request a copy.

2020 STATISTICS AT-A-GLANCE

Wells Closed/Restricted
Violations of Standards
None
Typical Well Depth
Aquifers
Pumping Stations
None
None
None
None
None
12

Service Area 20 Square Miles
Total Water Withdrawn 5,055,053,000 Gal.
Total Water Sales 4,837,659,000 Gal.
Total Water Lost from System* 259,890,000 Gal.

Population Served (approx.) 135,000 Customers Served (accounts) 45,018 Miles of Mains 433

Water Quality Table – Table of Detected Contaminants 2020 (SA2 - Merrick Operations) REGULATED SUBSTANCES

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low- High	Violation (Yes/No)	Typical Source
Microbiological							
Total Coliform (% positive samples in any given month) ¹	2020 (highest month was August 2020)	TT=>5% samples positive	N/A	1.6%¹ (2 POS out of 126 total samples in August 2020)	ND (0%) - 1.6%	No	Naturally present in the environment
Disinfection By-Products							
TTHM's (Total Trihalomethanes) (ppb) ²	Quarterly	80	0	4.8	<1.0 - 4.8	No	By-product of drinking
HAA5's (Total Haloacetic acids) (ppb) ³	2020	60	0	<2.0	<2.0 - <2.0	No	water disinfection
Disinfectants							
Chlorine (ppm) ⁴	2020	N/A	N/A	2.20	<0.10 - 2.20	No	Water additive used to control microbes
Radiological 5	•						
Gross Alpha Activity (pCi/L)	10/2018	15	0	8.06	ND - 8.06	No	
Gross Beta Activity (pCi/L)	10/2018	50	0	4.23	0.171 - 4.23	No]
Combined Radium-226 and Radium-228 (pCi/L)	09/2018	5	0	4.61	0.280 - 4.61	No	Erosion of natural deposits
Uranium (ug/L)	10/2018	30	0	0.187	ND - 0.187	No	



 $^{^{\}star}$ Total water lost from the system includes "Accounted For" and "Unaccounted For" water. Non-revenue water is approx. 9.4% of total water delivered to the system; of which, approximately 5.1% is accounted for and 4.3% is unaccounted for.

Lead and Copper Rule (Tap water samples were collected from 54 homes in the service area)

Contaminant (units)	Date Sampled	Action Level	MCLG	Amount Detected (90th %tile)	Range (Low-High)	Violation (Yes/No)	Typical Source	
Copper (ppm) 6	07-09/	1.3	1.3	0.270	0.021- 0.340	No	Coversion of household alteration and tensor	
Lead (ppb) 7	2020	15	0	1.4	ND - 6.6	No	Corrosion of household plumbing systems	

Metals & Inorganic Substances

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low-High	Violation (Yes/No)	Typical Source
Barium (ppb)	10/2020	2,000	2,000	120	ND - 120	No	Erosion of natural deposits
Calcium (ppm)	06/2020	N/A	N/A	5.4	ND - 5.4	No	Naturally occurring
Chlorides (ppm)	06/2020	250	N/A	26.7	ND - 26.7	No	Naturally occurring or indicative of road salt contamination
Iron (ppb) 8	06/2020	300	N/A	940	ND - 940	No	Naturally occurring
Manganese (ppb)8	05/2020	300	N/A	89	ND - 89	No	Naturally occurring
Nickel (ppb)	11/2020	N/A	N/A	25.0	1.2- 25.0	No	Naturally occurring
Nitrates as N (ppm)	07/2020	10	10	0.320	ND - 0.320	No	Erosion of natural deposits; Runoff from fertilizers and septic tanks
Sodium (ppm) 9	10/2020	N/A	N/A	37.5	2.6 - 37.5	No	Naturally occurring; Road salt; Water softeners
Sulfate (ppm)	06/2020	250	N/A	59.3	ND - 59.3	No	Naturally occurring; Road salt; Water softeners

Organic Substances

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low-High	Violation (Yes/No)	Typical Source
Trichloroethene (TCE)- 12/2020 5 0 22.5		22.5	ND - 22.5	No	Discharges from metal degreasing sites and other factories. Grumman-NAVY plume		
Specific Organic Compo	unds						
1,4 dioxane (ppb)*	11/2020	1.0	N/A	1.50	ND - 1.50	No	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites

Physical Parameters & Unregulated Substances

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Alkalinity (ppm)	2020	48.5	27.9 - 48.35	N/A
Calcium Hardness (ppm)	2020	3.7	0.9 - 3.7	N/A
Color Index (units)	2020	15	ND - 15	Presence of metals such as copper, iron and manganese. Results greater than 15 units are considered 'discolored'.
Corrosivity (Langelier Index) 10	2020	(-2.31)	(-3.27) - (-2.31)	N/A
Hardness, Total (ppm)	2020	10.1	1.7 - 10.1	N/A
Magnesium (ppm)	2020	1.9	ND - 1.10	Naturally occurring
pH (units) 11	2020	7.1	7.0 – 7.1	N/A
Total Dissolved Solids (TDS) (ppm)	2020	123	42 123	N/A

Footnotes:

- A total of 1,449 distribution system bacteriological samples were taken in 2020, with 3 positive Total Coliform results = 0.21% positives for the year.
- ²TTHM's mean the sum of: Bromoform, Bromodichloromethane, Dibromochloromethane, and Chloroform. The highest 'Locational Running Annual Average" was 4.8 ppb in 2020.
- 3 HAA5's includes the sum of: Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, and Dibromoacetic acid. The highest 'Locational Running Annual Average" was less than 2.0 ppb ("<2.0") in 2020.
- ⁴ The running annual average of all Chlorine Residual readings (1,459) in the distribution system was **1.50 ppm** for 2020.
- 5 Radiological results are from individual raw water wells, and not distribution locations, as required by the NCDOH.
- ⁶ The level presented represents the 90th percentile of 54 sites tested. The "action level" for copper was not exceeded at any of 54 sites tested.
- ⁷ The level presented represents the 90th percentile of 54 sites tested. The "action level" for lead was not exceeded at any of 54 sites tested.
- 8 Higher levels of iron (up to 1,000 ppb) may be allowed by the state when justified by the water supplier, as is the case with NYAW Merrick Operations district. The Total of iron and manganese should not exceed 500 ppb, unless allowed by the state, as is the case with NYAW Merrick Operations district.



- 9 Water containing more than 20 mg/L of sodium should not be used for drinking by persons on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.
- ¹⁰ The NCDOH recommends that the Langelier Saturation Index (for corrosivity) be as close to zero as possible.
- ¹¹NCDOH guidelines recommend a pH range of 7.0 8.5. The running annual average of all pH readings in the distribution system taken during routine bacteriological testing was **7.10 units** in 2020.

Unregulated Contaminant Monitoring Rule (UCMR4):

The following parameters were tested for as per a required USEPA monitoring program (2018 – 2020) to try to quantify the presence and amount of emerging or unregulated compounds to see if any should be regulated by the EPA in the future. Unregulated contaminants are those for which USEPA has not established drinking water standards for. The purpose of unregulated contaminant monitoring is to assist USEPA in determining the occurrence of these constituents in drinking water and whether future regulation is warranted. (No Federal MCL's exist for these parameters to-date, although some might be already regulated by the NYSDOH.)

The following contaminants that we tested for on the treated water exiting our treatment plants ("Entry Point" locations) were detected as follows:

Contaminant (units) Date Sampled		Maximum Amount Detected	Range: Low-High	Typical Source
Manganese (ppb)	2018	37	ND - 37	Naturally occurring
Germanium (ppb)	Germanium (ppb) 2018		ND - 0.41	Naturally occurring

The following contaminants that we tested for on the raw water wells were detected as follows:

Contaminant (units) Bromide (ppb) Date Sampled 2018		Maximum Amount Detected	Range: Low-High	Typical Source		
		190	190 ND - 190 Naturally occ			
Total Organic Carbon (ppb)	2018	901.5	ND - 901.5	Naturally occurring		

The following contaminants that we tested for on distribution system locations were detected as follows:

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Total Haloacetic Acids – UCMR4 (ppb)	2018	0.83	ND - 0.83	By-product of drinking water disinfection
Total Haloacetic Acids – Bromide-related (ppb)	2018	0.38	ND - 0.38	By-product of drinking water disinfection

Total Haloacetic Acids for UCMR4 include the sum of the following contaminant combinations: Monochloroacetic acid, Monobromoacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromochloroacetic acid, Dibromoacetic acid, Bromodichloroacetic acid, Chlorodibromoacetic acid, Tribromoacetic acid, Tribromoacetic acid, Dibromoacetic acid, Dibromoa

Unregulated Contaminant Monitoring Rule (UCMR4) - Listing of Non-Detected (ND) Contaminants (2018):

The following contaminants that we tested for under UCMR4 Monitoring Program were "Non-detected" (ND):

Alcohols:Pesticides and byproducts:1-butanolAlpha-Hexachlorocyclohexane

2-methoxyethanol Chlorpyrifos

2-propen-1-ol Dimethipin
Ethoprop

Semi-Volatile Chemicals:OxyfluorfenButylated hydroxyanisole (BHA)Profenofoso-toluidineTebuconazole

Quinolone Total Permethrin (cis- & trans-)

Tribufos

Unregulated Contaminant Monitoring Rule (UCMR3):

The following parameters were tested for as per a required USEPA monitoring program (2013 - 2015) to try to quantify the presence and amount of emerging or unregulated compounds to see if any or all of them should be regulated by the USEPA in the future (No MCL's for these parameters to-date).

The following contaminants that we tested for on the treated water exiting our treatment plants ("Entry Point" locations) were detected as follows:

Contaminant (units) Date Sampled		Maximum Amount Detected	Range: Low-High	Typical Source
1,4-Dioxane (ppb) *	2017-2019	1.35	ND - 1.35	Manufacturing solvent

^{*}NYS guidance level for 1,4-dioxane was 1.0 ppb before new regulations were put into effect in August of 2020. Special 1,4-dioxane sampling was performed on raw water wells in 2017-2019 by the water company for proactive, informational, and quality control purposes only, and not due to any regulatory requirement.

USEPA Health Advisory Definitions:

Health advisories provide information on contaminants that can cause human health effects and are known or anticipated to occur in drinking water. EPA's Health Advisories are non-enforceable and non-regulatory and provide technical information to states agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.



^{*}See public notification attached for 1,4 dioxane information.

Special Message about new Regulations on Emerging Contaminants by NYSDOH:

On August 26, 2020, NYS adopted new drinking water standards for public water systems that set maximum contaminant levels (MCLs) of 10 parts per trillion (ppt) each for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), and 1 part per billion (ppb) for 1,4-dioxane.

About Drinking Water Standards and MCLs

A MCL is the highest level of a contaminant allowed in drinking water delivered by public water systems. They are enforceable regulatory limits. MCLs are set far below levels that cause health effects. According to the NYSDOH, because MCLs are set at levels with a large margin of protection, an exceedance of an MCL does not mean that water is unsafe for use while the public water system takes actions to reduce the levels.

The USEPA has also established guidance for the presence of PFOA and PFOS in drinking water. The EPA has established a non-enforceable health advisory level of 70 parts per trillion (ppt) for the sum of PFOA and PFOS. An MCL for 1,4-Dioxane in drinking water has not been established by the EPA.

What Are Emerging Compounds?

1,4-Dioxane is a synthetic industrial chemical that is present in many goods, including paint strippers, dyes, greases, antifreeze, and aircraft deicing fluids, and in some consumer products such as deodorants, shampoos and cosmetics.

PFOA/PFOS are per- and polyfluoroalkyl substances (PFAS), which are a group of man-made chemicals that can be found in food packaging; commercial household products, including stain- and water-repellent fabrics (ex: Scotchgard), nonstick products (e.g., Teflon), polishes, waxes, paints, and cleaning products; and fire-fighting foams.

Emerging compounds can enter our water resources after being landfilled, spilled, discharged as waste, or by seepage and infiltration into the water table, eventually entering water supplies.

NYAW's Action Plan

In advance of the adoption of these new standards by the State, New York American Water tested its entire water supply to determine the presence of these emerging compounds.

NYAW determined that, of the 55 sites that supply water across NYAW's service areas in Long Island and upstate New York, one site in your district has detections of emerging compounds above the NYS MCLs. Detections of 1,4-Dioxane at the Seamans Neck Well Station in North Wantagh/Levittown at 1.4 ppb. NYAW is pursuing Advanced Oxidation Process (AOP) treatment for 1,4-Dioxane at the Seamans Neck Well Station. NYAW has completed our AOP pilot testing and is working closely with the NCDOH on final treatment design. While AOP treatment will take time to fully install, NYAW's proactive approach has significantly reduced the time needed to install the right treatment system for our customers served by the Seamans Neck Well Station. Please see Public Notification below.

NYAW is pursuing the appropriate treatment where needed. While new treatment will take time to fully install, NYAW's proactive approach has significantly reduced the time needed to install the right treatment system for our customers.

When a public water system (PWS) is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new PFOS, PFOA, or 1,4-dioxane MCL's. In exchange, the NYSDOH agrees to defer enforcement actions, such as assessing fines, if the PWS is meeting established deadlines. Deferral recipients are required to update the Department and the NCDOH each calendar quarter on the status of the established deadlines. The Department can resume enforcement if the agreed upon deadlines are not met. Information about our deferral and established timelines can be found at the following site: https://www.amwater.com/nyaw/water-quality/Emerging-Compounds/seamans-neck



IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Deferral Issued for 1,4-Dioxane to New York American Water (NYAW) – Merrick

Why are you receiving this notice/information?

You are receiving this notice because testing of our public water system found the chemical 1,4-Dioxane in your drinking water above New York State's maximum contaminant level (MCL) of 1 ppb for 1,4-dioxane. The MCLs are set well below levels known to cause health effects in animal studies. Therefore, consuming water with 1,4-dioxane at the level detected does not pose a significant health risk. Your water continues to be acceptable for all uses.

NYAW - Merrick has submitted, and the New York State Department of Health (Department) has issued, a deferral to NYAW - Merrick. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new MCLs. In exchange, the Department agrees to defer enforcement actions, such as assessing fines, if the water system is meeting the established deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. If we do not meet the agreed upon deadlines, the Department can resume enforcement.

What are the health effects of 1,4-dioxane?

Laboratory studies show that 1,4-dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Other types of cancer have also been reported, although less consistently than liver cancer. There is no evidence of 1,4-dioxane cancer effects in humans. The United States Environmental Protection Agency considers 1,4- dioxane a likely human carcinogen based upon studies of animals exposed to high levels of this chemical over their entire lifetimes. At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

What is New York State doing about 1,4-Dioxane in public drinking water?

The New York State Department of Health (NYS DOH) has adopted a drinking water regulation that requires all public water systems to test for 1,4-dioxane. If found above the MCLs, the water supplier must take steps to lower the level to meet the standard. Exceedances of the MCL signal that steps should be taken by the water system to reduce contaminant levels.

What is being done to remove these contaminants?

NYAW - Merrick is in the process of installing treatment to remove 1,4-dioxane at our Seamans Neck Road Facility and will operate impacted wells in a last on first off sequence to minimize exposure to 1,4-Dioxane. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as rapidly as possible. The deferral is effective until August 25, 2022.

Where can I get more information?

For more information, please contact our Customer Service Center at 1-877-426-6999 or Natasha Niola, Water Quality Manager at 516-632-2239. You can also contact the Nassau County Health Department at (516) 227-9692. If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

Public Water System ID#: NY2902840

Date: January 21, 2021



Listing of Non-Detected (ND) Contaminants – 2020 (SA2 - Merrick Operations):

None of the following compounds that we analyzed for were detected in your drinking water at the respective method detection levels:

Microbiological:

E.coli

Inorganics & Physical:

Ammonia as N Cyanide, free Fluoride Nitrite as N Perchlorate

Surfactants (as MBAS)

Turbidity

Metals:

Antimony Arsenic Beryllium Cadmium Chromium Mercury Selenium Silver Thallium Zinc

Miscellaneous:

Asbestos fibers

Volatile Organic Compounds (VOC's):

Benzene
Bromobenzene
Bromochloromethane
Bromomethane
n-Butylbenzene
sec-Butylbenzene
tert-Butylbenzene
Carbon Tetrachloride
Chlorobenzene
Chloropethane

Chloroethane
Chlorodifluoromethane
2-Chlorotoluene

4-Chlorotoluene Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene

1,4- Dichlorobenzene (Meta)

Dichlorodifluormethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane

1,3-Dichloropropane
2,2-Dichloropropane
1,1-Dichloropropene
cis-1,3-Dichloropropene

trans-1,3-Dichloropropene Ethylbenzene

Hexachlorobutadinene Isopropylbenzene 4-Isopropyltoluene

Methyl Tert Butyl Ether (MTBE)

Methylene Chloride (Dichloromethane) n-Propylbenzene Styrene

1,1,2-trichloro 1,2,2-trifluoroethane

1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene (PCE)

Toluene

1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichloroethane Trichlorofluoromethane

1,2,3-Trichloropropane 1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

M-Xylene O-Xylene P-Xylene Vinyl Chloride

Synthetic (Specific) Organic Compounds (SOC's)*

Regulated Group #1:

Alachlor Aldicarb

Aldicarb Sulfone Aldicarb Sulfoxide

Aldicarb Sulfoxid Atrazine Carbofuran Chlordane, Total

1,2-Dibromo-3-Chloropropane

(DBCP) 2,4-D Endrin

1,2-Dibromomethane (EDB)

Heptachlor

Heptachlor Epoxide

Lindane Methoxychlor

PCB's

Pentachlorophenol Toxaphene 2,4,5-TP (Silvex)

Regulated Group #2:

Aldrin

Benzo(a)pyrene Butachlor Carbaryl Dalapon

Di (2-Ethylhexyl) adipate
Di (2-Ethylhexyl) phthalalte

Di (2-Ethylinex Dicamba Dieldrin Dinoseb Diquat Endothall Glyphosate

Hexachlorobenzene Hexachlorocyclopentadiene

3-Hydroxycarbofuran

Methomyl Metolachlor Metribuzin Oxamyl (Vydate) Picloram Propachlor Simazine

2,3,7,8-TCDD (Dioxin)

* Synthetic (Specific) Organic Compounds (SOC's) are mainly

Pesticides and Herbicides, and are required to be tested on raw water wells, and not on distribution locations, as per NCDOH requirements.

<u>Unregulated Contaminant</u> Monitoring Rule (UCMR3):

The following parameters were tested for as per a required USEPA monitoring program (2013 - 2015) to try to quantify the presence and amount of emerging or unregulated compounds to see if any should be regulated by the EPA in the future.

The following contaminants that we tested for on the treated water exiting our treatment plants ("point of entry" locations) were "Nondetected" (ND):

UCMR3 Volatile Organic Compounds (VOC's) Group (all ND):

1.1-Dichloroethane

1,2,3-Trichloropropane

1,3-Butadiene

Bromochloromethane

(halon1011) Bromomethane

Chlorodifluoromethane

Chloromethane

UCMR# Perfluorinated Compounds Group (all ND):

Perfluorooctanesulfonin acid

(PFOS)

Perfluorooctonoic acid (PFOA)
Perfluorononanoic acid (PFNA)
Perfluorohexanesulfonic acid

(PFHxS)

Perfluoroheptanoic acid

(PFHpA)

Perfluorobutanesulfonic acid

(PFBS)

UCMR3 Hormones Group (all ND):

Estradiol (17beta-)

Equilin

4-Androstene-3,17-dione

Estrone

Ethynylestradiol (ethinyl

estradiol)

Hydroxyestradiol Testosterone







RESULTS TO PROVE IT

We have an exceptional track record when it comes to water quality and drinking water regulatory compliance. That's why we invite you to read our latest Water Quality Report, specifically for your local community.



WE KEEP LIFE FLOWING®



PROVIDING SAFE, QUALITY WATER SERVICE

- Our drinking water meets or surpasses all primary state and federal standards, including regulations related to lead.
- Statewide, we perform thousands of tests each year on the water before it leaves our treatment plants, plus a significant number of tests in the distribution system.
- Our team of water quality experts sample and interpret data regularly, following state quality control standards. Our team utilizes certified labs across the state to process and analyze these samples. We sample above and beyond the required regulations provided by the USEPA and the local health departments.

See how we're doing in your community.

Every year, we provide a detailed analysis of the water we deliver to our communities in our Water Quality Reports. To learn more about our commitment to water quality or to view the Water Quality Report for your area, visit us online at newyorkamwater.com. Under Water Quality, select Water Quality Reports.

QUALITY. ONE MORE WAY WE KEEP LIFE FLOWING.



2022 Consumer Confidence Report on Water Quality for 2021

Annual Water Quality Report

Merrick Operations District

Public Water Supply ID# NY2902840



Message from the President

Providing customers with safe, quality drinking water is a top priority for Liberty, and we are proud to present this Water Quality Report (Consumer Confidence Report) that shares detailed information regarding local water service and our compliance with state and federal quality standards during the 2021 calendar year.

Liberty makes significant investments each year to ensure the water we deliver to customers meets all Safe Drinking Water Act (SDWA) standards established by the United States Environmental Protection Agency (EPA) and New York State Department of Health (NYSDOH). We invest responsibly in order to maintain the local water infrastructure, because strong infrastructure is a key factor in delivering quality water. Additionally, we have a top-notch water quality program that ensures the water delivered to your home or business is thoroughly tested by independent laboratories and the data is provided to the state to verify compliance with all applicable SDWA and NYSDOH water regulations.

We know our customers rely on us to make sure the water at their tap is safe to drink, and we take that responsibility seriously. Our employees live in the local community and take great pride in providing quality water and reliable service to you and your neighbors.

If you have any questions about the information within this report, please don't hesitate to contact us anytime at 1-877-426-6999 TDD:711. We encourage you to visit our website at www.libertyenergyandwater.com to stay up-to-date and receive tips about water conservation and more.

On behalf of the entire Liberty family, thank you for being a valued customer and neighbor. We are proud to be your water provider.

Sincerely, Chris Alario President, Liberty New York Water

To request a printed copy of this report, please call us at 1-877-426-6999 TDD:711. This report can also be found at www.libertyenergyandwater.com.





Where Does My Water Come From? Communities Served

Bellmore

East Massapequa*

Levittown*

Massapequa*

Merrick

North Bellmore

North Merrick

North Seaford

North Wantagh

Seaford

Wantagh

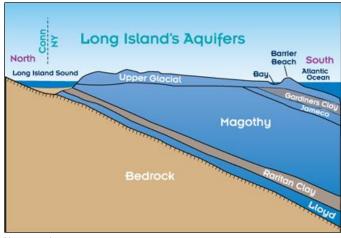
*community partially served

Source, Quality & Quantity

Groundwater is the source of your drinking water supply. It is drawn from 16 wells located in the aquifer system beneath the land surface.

The Aquifers

The aquifers are water-bearing geologic deposits of sand and clay that absorb and store about 45 percent of the rain and snow that fall on Long Island. Merrick Operations Center has wells in the Magothy aquifer.



Not to scale

If you have a private well which is unregulated and untested, you should not use the water for drinking or cooking. (Source: NCDOH)

Be Water Smart - Think Conservation

The New York State Department of Environmental Conservation requested that all Long Island water suppliers reduce their peak pumpage by 15 percent to ensure the long-term sustainability of the Long Island aquifer. Our customers must conserve water to help us achieve this goal. When our customers conserve, not only do they reduce their water bill, but Liberty is able to defer infrastructure investment projects that are needed to meet peak water demand, which can reach as high as 50 million gallons of water a day in the summer.



The following suggestions will help you make your home "water efficient" without sacrificing comfort or changing lifestyles:

- Install smart irrigation technology on your irrigation system to irrigate as efficiently as possible.
- Install a moisture sensor on your irrigation system to prevent wasteful watering during or just after a rain.
- Use native, drought-resistant shrubs, trees, plants, and grasses in your landscape.
- Run dishwashers and washing machines only with full loads.
- Turn off the tap when brushing your teeth or shaving.
- Check every faucet for leaks. Even a slow drip can waste 15 to 20 gallons a day, or about 6,000 gallons a year.
- If you suspect that you have a water leak, order our free Leak Detection Kit. The kit contains information, hints and dye tablets to help you determine if you have a wasteful water loss. Call our customer call center or 516-632-2236 to order.
- Replace older devices with water-saving showerheads, faucets, or low flush toilets. A normal showerhead uses 5 to 7 gallons a minute. Switching to a low-flow model that uses 1.5 gallons a minute can save a family thousands of gallons of water a year.

Source Water Assessment



The NYSDOH, with assistance from the local health department and the CDM consulting firm, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment

includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected (if any). The source water assessments provide resource managers with additional information for protecting source waters into the future.

Drinking water is derived from 16 wells. The source water assessment has rated most of the wells as having a very high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to residential, commercial, and institutional land use and related practices in the assessment area, such as fertilizing lawns.

How is Your Water Treated?

Our water supply is obtained from wells located throughout our service area, and average about 500 feet in depth. In our area of southeastern Nassau County, the soil has naturally high iron



and mineral content. The water dissolves these naturally occurring minerals, and while they are not health hazards, they can cause discolored water issues.

Bacteriological pollutants are not usually present in wells at the average depth of 500 feet and, consequently, water directly from the well is drinkable. However, water treatment is required to protect the water in the distribution system and to minimize discolored water conditions.

Treatment consists of:

- Chlorination for bacteriological disinfection (using Sodium Hypochlorite).
- 2. Caustic Soda (Sodium Hydroxide) to raise pH and minimize corrosivity to water mains and household plumbing.
- 3. Filtration to remove iron at three well locations.
- 4. Calciquest (Phosphate compound) to stabilize or sequester the iron not removed by filtration, and to act as a corrosion control inhibitor.
- 5. Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).

We take steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor (Calciquest is an Orthophosphate compound) to the water leaving our treatment facilities.

What are Drinking Water Standards?

Drinking water standards are the regulations set by the USEPA to control the level of contamination in the nation's drinking water. The USEPA and the NYSDOH are the agencies responsible for establishing drinking water quality standards in New York. This approach includes assessing and protecting drinking water sources; protecting wells and surface water; making sure water is treated by qualified operators; ensuring the integrity of the distribution system; and making information about water quality available to the public. The water delivered to your home meets the standards required by the USEPA and the NYSDOH.

This report describes those contaminants that have been detected in the analyses of almost 200 different potential contaminants, nearly 100 of which are regulated by the USEPA and the NYSDOH.

Liberty is proud to tell you that there is only one contaminant that exceeds any federal or state drinking water standards (see last page of this document). Hundreds of samples analyzed every month by Liberty's contract certified laboratory assures that all primary (health-related) drinking water standards are being met. Sample results are available on the Table in this report.

This report is intended to provide information for all water users. If received by an absentee landlord, a business, or a school, please share the information with tenants, employees, or students. We are happy to make additional copies of this report available. You may also access this report on the Liberty web page at www.libertyenergyandwater.com.

Substances That Could be in 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 stormwater 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 stormwater 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 stormwaterrunoff, 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 that tap water is safe to drink, the USEPA and the NYSDOH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (USFDA) also establishes limits for contaminants in bottled water that provide the same protection for public health.

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 USEPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting their website at https://www.ground-water-and-drinking-water/national-primary-drinking-water-regulations. For information on bottled water visit the USFDA website at www.fda.gov.

Do I Need to Take Special Precautions?

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. The USEPA and Centers for Disease Control (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 at 1-800-426-4791.

Cryptosporidiosis & Giardiasis

Although there have been no cases of Cryptosporidiosis in Nassau County attributable to the water supply, we thought you should be aware of the risks to people with severely weakened immune systems. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by



microscopic parasites that can be transmitted several ways including through drinking water. Cryptosporidiosis can be very serious for people with weak immune systems, such as transplant patients; individuals receiving chemotherapy or dialysis, and people with Crohn's disease or HIV infection. Individuals who think they may have been exposed to Cryptosporidiosis or Giardiasis should contact their health care providers immediately.

Immuno-compromised patients who may have been advised by their health care provider that they may be at risk, especially when traveling, should observe the following:

- One minute of boiling water at a rolling boil will kill Cryptosporidium parvum and Giardia lamblia.
- Drinking bottled water does not guarantee that the water is free from Cryptosporidiosis or Giardiasis.

Contact your health care provider about your options. If you have questions, contact the NCDOH at 516-227-9692.

Lead & Copper Rule Statements

The Lead and Copper Rule requires sampling for lead and copper at the tap. In 1992, the first-year testing was required; tap water was sampled in compliance with EPA regulations. Test results were excellent: at least 90 percent of the lead tests were well below 10 parts per billion, and for copper, below 0.3 parts per million, indicating that the company's corrosion control treatment processes continue to be effective. The same tests were done roughly every three years from 1997 through 2020 with similar results. The next round of homeowner monitoring for the Lead and

Copper Rule will be completed in the summer of 2023.

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. Liberty is responsible for providing high quality drinking water but 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 drinking 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 at 1-800-426-4791 or at

http://www.epa.gov/safewater/lead.

System Improvements

In 2021, we continued to make significant upgrades to our system and infrastructure. These improvements include:

- Replaced 14,930 feet of water main throughout the service territory.
- Replaced 2 fire hydrants.
- Replaced 103 service lines.
- Replaced 4,619 water meters.
- Completed replacement of the iron filtration media and drilled a new 3 Million-Gallon-Per-Day water supply well at the Newbridge Road Treatment Plant in North Bellmore.
- Drilled a new 3 Million-Gallon-Per-Day water supply well at the Jefferson Plant in Merrick.



 Completed design of a 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.

Improvements planned for 2022 include:

- Replace approximately 11,500 feet of water main.
- · Replace 3 fire hydrants.
- · Replace 60 service lines.
- Replace approximately 4,992 water meters.
- Construct new well buildings at the Jefferson St.
 Plant in Merrick, and the Newbridge Plant in North Bellmore.
- Complete liner installation and rehabilitation of the 2 Million-Gallon-per-Day Newbridge Well 3 in North Bellmore.
- Complete cleaning and rehabilitation of the 3 Million-Gallon-per-Day Jerusalem Well 5 in Wantagh.
- Begin construction of the 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.
- Drill replacement 3 Million-Gallon-Per-Day water supply well at the Sunrise Mall Well Site in Massapequa.

2021 STATISTICS AT-A-GLANCE

Wells Closed/Restricted None
Violations of Standards None
Typical Well Depth 500 Feet
Aquifers Magothy

Pumping Stations 12

Service Area 20 Square Miles
Total Water Withdrawn 5,120,694,000 Gal.
Total Water Sales 4,815,383,000 Gal.

Population Served (approx.) 135,000 Customers Served (accounts) 45,018 Miles of Mains 433

Average Residential Usage & Cost

In 2021, the average residential household used approximately 106,965 gallons of water at a cost of about \$656, or \$1.80 a day. With an average of 3.0 persons per household, the cost of water was about 60¢ a day per person.

How Might I Become Actively Involved?

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- · Responding to survey requests
- Attending presentations by the company made to local community and civic associations
- Contacting agencies such as the Nassau County Health Department (NCDOH) at 516-227-9692



Important Health Information

Lead

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. We are responsible for providing high-quality drinking water, but 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.

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 www.epa.gov/safewater/lead.

1,4 dioxane

Laboratory studies show that 1,4 dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Whether 1,4 dioxane causes cancer in humans is unknown. The United States Environmental Protection Agency considers

1,4 dioxane as likely to be carcinogenic to humans based upon studies of animals exposed to high levels of this chemical over their entire lifetimes.

Is Our Water System Meeting Other Rules That Govern Our Operations?

During 2021, our system was in compliance with applicable NYS drinking water operating, monitoring and reporting requirements. If you have questions about this report, please contact our Water Quality Manager at 516-632-2239.



Testing Results

During the year, Liberty collects water samples to determine the presence of any radioactive, biological, inorganic, or organic contaminants. All of the substances listed in the table below tested under the Maximum Contaminant Level (MCL). Liberty believes it is important you know what was detected, and how much of the substance was present. The state allows the monitoring of certain substances less than once a year because the concentrations of these substances do not change frequently. If a substance was tested and there was no detection, it is not listed in this table. You can find Definitions, Terms and Abbreviations related to this Table in the next section for easy reference.

Table of Detected Contaminants										
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination			
Microbiological	100/110	Garripio	(rtarigo)	Wicasarsmont	MOLO	(MOE, TT OF AE)	Energy Source of Contamination			
Total Coliform (% positive samples in any given month)	N	One positive sample on 06/01, 07/21, & 11/10	0.81% each month	units	N/A	TT => 5% samples positive in a month	Naturally present in the environment.			
Inorganic Contamina	nts (sour	ce: raw water								
Iron 1	N	06/2021	0.19 – 1.2	mg/L	N/A	0.3	Naturally occurring.			
Barium	N	05/2021	ND - 0.0083	mg/L	2	2	Erosion of natural deposits.			
Chloride	N	07/2021	3.1 – 18.1	mg/L	N/A	250	Natural occurring or indicative of road salt contamination.			
Lead	N	07/2021	ND – 4.9	ug/L	0	AL - 15	Erosion of natural deposits.			
Copper	N	05/2021	ND - 0.029	mg/L	N/A	1.3	Erosion of natural deposits.			
Sodium ²	N	05/2021	2.4 – 12.3	mg/L	N/A	See Health Effects	Naturally occurring; Road salt; Water softeners.			
Color	N	05/2021	ND – 6	units	N/A	15	Natural color may be caused by decaying leaves, plants, and soil organic matter.			
Odor	N	07/2021	ND – 2	units	N/A	3	Natural color may be caused by decaying leaves, plants, and soil organic matter.			
Manganese 3	N	03/2021	ND - 0.057	mg/L	N/A	0.3	Naturally occurring.			
Nickel	N	05/2021	0.0013 - 0.0083	ug/L	N/A	N/A	Naturally occurring.			
Zinc	N	07/2021	ND - 0.081	mg/L	N/A	5	Naturally occurring.			
Thallium	N	07/2021	ND - 0.42	ug/L	0.5	2	Leaching from ore processing sites; Discharge from electronics, glass, and drug factories.			
Fluoride ⁴	N	08/2021	ND – 0.11	mg/L	N/A	2.2	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.			
Sulfate	N	05/2021	ND – 28.4	mg/L	N/A	250	Naturally occurring.			
Nitrate	N	07/2021	ND – 0.14	mg/L	10	10	Erosion of natural deposits, fertilizers, sanitary waste systems.			
Organic Contaminant	s (source	e: raw water w	vells)							
Trichloroethene (TCE) 5	N	01/2021	ND – 3.6	ug/L	0	5	Discharges from metal degreasing sites and other factories.			
1,4 dioxane ⁶	N	Quarterly 2021	ND – 2.0	ug/L	N/A	1.0	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites.			



			Table of	Detected C	ontaminan	nts			
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination		
Radiological Contami	inants (f	ootnote 7) (so	ource: raw water w	ells)					
Gross Alpha	N	07/2021	ND – 2.2	pCi/L	0	15			
Combined Radium- 226 and 228	N	07/2021	ND – 2.2	pCi/L	0	5	Erosion and decay of natural deposits.		
Gross Beta	N	07/2021	ND - 4.65	pCi/L	0	50 (a)]		
Uranium	N	07/2021	0.016 - 0.182	ug/L	0	30 (b)	1		
Disinfectant/ Disinfect	tion By-	product (D/D	BP) Parameters (footnote 8)					
TTHMs	N	Quarterly	ND - 5.9	mg/L	0	80	By-product of drinking water disinfection		
HAA5's	N	2021	ND – ND	mg/L	0	60			
Chlorine	N	2021	0.46 - 2.14	mg/L	N/A	4	Water additive used to control microbes.		
Lead and Copper (Ta	p water a	at homeowne	r's premise) (foot	note 9)					
Copper	N	07-09/2020	90 th - 0.270 0.021 – 0.340	mg/L	1.3	1.3	Corrosion of household plumbing		
Lead	N	07-09/2020	90 th - 1.4 ND – 6.6	ug/L	0	15	systems.		
Unregulated Substand	ces and	Physical Para	ameters						
Ammonia	N	07/2021	ND - 0.1	mg/L	N/A	N/A	N/A		
Alkalinity	N	08/2021	ND – 48.8	mg/L	N/A	N/A	N/A		
Calcium Hardness	N	07/2021	ND – 12.5	mg/L	N/A	N/A	N/A		
Calcium	N	07/2021	ND - 5.0	mg/L	N/A	N/A	N/A		
Corrosivity 10	N	07/2021	(-7.89) - (-6.02)	Langelier Index	N/A	N/A	N/A		
Hardness, Total	N	07/2021	ND – 20.7	mg/L	N/A	N/A	N/A		
Magnesium	N	03/2021	ND – 9.2	mg/L	N/A	N/A	N/A		
pH 11	N	04/2021	6.7 - 7.7	units	N/A	N/A	N/A		
TDS	N	07/2021	ND - 170	mg/L	N/A	N/A	N/A		

Notes:

- 1- Higher levels of iron (up to 1,000 ppb) may be allowed by the state when justified by the water supplier, as is the case with Merrick Operations district. The Total of iron and manganese should not exceed 500 ppb, unless allowed by the state, as is the case with Merrick Operations district. The maximum level detected above is on a well that has iron removal filtration prior to distribution. Iron is essential for maintaining good health. However, too much iron can cause adverse health effects. Drinking water with very large amounts of iron can cause nausea, vomiting, diarrhea, constipation and stomach pain. These effects usually diminish once the elevated iron exposure is stopped. A small number of people have a condition called hemochromatosis, in which the body absorbs and stores too much iron. People with hemochromatosis may be at greater risk for health effects resulting from too much iron in the body (sometimes called "iron overload") and should be aware of their overall iron intake.
- 2- Water containing more than 20 mg/L of sodium should not be used for drinking by persons on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.
- 3- Manganese is an essential nutrient that is necessary to maintain good health. However, exposure to too much manganese can cause adverse health effects. There is some evidence from human studies that long-term exposure to manganese in drinking water is associated with nervous system effects in adults (e.g., weakness, stiff muscles and trembling of the hands) and children (learning and behavior). The results of these studies only suggest an effect because the possible influences of other factors were not adequately assessed. There is supporting evidence that manganese causes nervous system effects in humans from occupational studies of workers exposed to high levels of manganese in air, but the relevance of these studies to long term drinking water exposure is less clear because the exposures were quite elevated and by inhalation, not by ingestion.
- 4- Fluoride was detected in one well. The well was resampled and fluoride was not detected.
- 5- TCE-Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer. Please note that the raw wells with detections of TCE are treated with Granular Activated Carbon (GAC). The water being distributed to the customers does not contain TCE.
- 6- 1,4 dioxane is a newly regulated contaminant as of August 2020. One plant in the Merrick Operations district has 1,4 dioxane levels above the MCL. NYSDOH granted Merrick Operations District a deferral. Please see public notification on last page of this report.
- 7- Radiological results are from raw water wells, and not distribution locations, as required by the NCDOH. (a) The State considers 50 pCi/L to be the level of concern for beta particles. (b) 30 µg/l of uranium is approximately 20.1 pCi/L.
- 8- TTHM's mean the sum of: Bromoform, Bromodichloromethane, Dibromochloromethane, and Chloroform. The highest 'Locational Running Annual Average" was 4.58 pbb in 2021. HAA5's include the sum of: Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, and Dibromoacetic acid. The highest 'Locational Running Annual Average" was <2.0 ppb in 2021. The running annual average of all Chlorine Residual readings in the distribution system was 1.50 ppm for 2021.



- 9- The level presented represents the 90th percentile of 54 sites tested. The "action level" for copper was not exceeded at any of 54 sites tested. The level presented represents the 90th percentile of 54 sites tested. The "action level" for lead was not exceeded at any of 54 sites tested.
- 10- The NCDOH recommends that the Langelier Saturation Index (for corrosivity) be as close to zero as possible.
- 11- NCDOH guidelines recommend a pH range of 7.5 8.5. The running annual average of all pH readings in the distribution system was 7.12 units in 2021.



Definitions, Terms and Abbreviations

90th percentile: For Lead and Copper testing. 10% of test results are above this level and 90% are below this level.

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

HAA5: Haloacetic Acids (mono-, di- and tri-chloracetic acid, and mono- and di- bromoacetic acid) as a group. **Healthy Advisory (HA)**: EPA's health advisories are non-enforceable and non-regulatory and provide technical information to states agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.

MCLG: Maximum Contaminant Level Goal, or 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.

MCL: Maximum Contaminant Level, or 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.

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfectant Level Goal, or 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.

ND: not detectable at testing limits.

pCi/L: picocuries per liter, a measure of radioactivity

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in the water.

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group

What Does This Information Mean?

As you can see by the table, our system had no sample limit violations in 2021. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements.



Why Save Water And How To Avoid Wasting It?

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- Saving water saves energy and some of the costs associated with both of these necessities of life;
- Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential firefighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So
 get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.

Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

Closing

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources. For questions concerning this report or your water quality, please contact Natasha Niola, Water Quality Manager, at 516-632-2239 or Liberty Customer Service at 1-877-426-6999 TDD:711; or on the web at www.libertyenergyandwater.com.

Liberty - New York Water

60 Brooklyn Avenue Merrick, NY 11566



Listing of Non-Detected (ND) Contaminants – 2021 (Merrick Operations)

None of the following compounds that we analyzed for were detected in your drinking water at the respective method detection levels:

Microbiological:

Inorganics & Physical:

Ammonia as N Cyanide, free Nitrite as N Perchlorate Surfactants (as MBAS)

Turbidity

Metals:

Antimony Arsenic Beryllium Cadmium Chromium Mercury Selenium Silver

Miscellaneous:

Asbestos fibers

Volatile Organic Compounds (VOC's):

Benzene Bromobenzene Bromochloromethane Bromomethane n-Butvlbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane Chlorodifluoromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1.4- Dichlorobenzene (Meta) Dichlorodifluormethane 1.1-Dichloroethane

1,2-Dichloroethane

1.1-Dichloroethane

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene

cis-1,3-Dichloropropene trans-1.3-Dichloropropene

Ethylbenzene Hexachlorobutadinene Isopropylbenzene 4-Isopropyltoluene

Methyl Tert Butyl Ether (MTBE) Methylene Chloride (Dichloromethane)

n-Propylbenzene Styrene

1,1,2-trichloro 1,2,2-trifluoroethane 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene (PCE)

Toluene

1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1.1.2-Trichloroethane Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene

M-Xylene O-Xylene P-Xylene Vinyl Chloride

Synthetic (Specific) Organic Compounds (SOC's) Regulated Group #1:

Alachlor Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Atrazine Carbofuran

Chlordane, Total 1,2-Dibromo-3-Chloropropane (DBCP)

2,4-D Endrin

1,2-Dibromomethane (EDB)

Heptachlor Heptachlor Epoxide Lindane

Methoxychlor PCB's

Pentachlorophenol Toxaphene 2,4,5-TP (Silvex)

Regulated Group #2:

Aldrin Benzo(a)pyrene Butachlor Carbaryl Dalapon

Di (2-Ethylhexyl) adipate Di (2-Ethylhexyl) phthalalte

Dicamba Dieldrin Dinoseb Diquat Endothall Glyphosate

Hexachlorobenzene Hexachlorocyclopentadiene 3-Hydroxycarbofuran

Methomyl Metolachlor Metribuzin Oxamyl (Vydate) Picloram Propachlor Simazine

2,3,7,8-TCDD (Dioxin)

Newly regulated compounds

Perfluorooctanoic acid (PFOA) Perfluorooctanesulfonic acid (PFOS)

Unregulated compounds:

PFAS Compounds:

Perfluorobutanesulfonic acid (PFBS) Perfluorononoic Acid (PFNA) Perfluorodeconoic Acid (PFDA) Perfluorohexanoic Acid (PFHxA) Perfluoroheptanoic Acid (PFHpÁ) Perfluorododecanoic Acid (PFDoA) Perfluorohexanesulfonic acid (PFHxS) Perfluorotridecanoic Acid (PFTrDA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA)

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Deferral Issued for 1,4-Dioxane to New York American Water (NYAW) – Merrick

Why are you receiving this notice/information?

You are receiving this notice because testing of our public water system found the chemical 1,4-Dioxane in your drinking water above New York State's maximum contaminant level (MCL) of 1 ppb for 1,4-dioxane. The MCLs are set well below levels known to cause health effects in animal studies. Therefore, consuming water with 1,4-dioxane at the level detected does not pose a significant health risk. Your water continues to be acceptable for all uses.

NYAW - Merrick has submitted, and the New York State Department of Health (Department) has issued, a deferral to NYAW - Merrick. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new MCLs. In exchange, the Department agrees to defer enforcement actions, such as assessing fines, if the water system is meeting the established deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. If we do not meet the agreed upon deadlines, the Department can resume enforcement.

What are the health effects of 1,4-dioxane?

Laboratory studies show that 1,4-dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Other types of cancer have also been reported, although less consistently than liver cancer. There is no evidence of 1,4-dioxane cancer effects in humans. The United States Environmental Protection Agency considers 1,4- dioxane a likely human carcinogen based upon studies of animals exposed to high levels of this chemical over their entire lifetimes.

At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

What is New York State doing about 1,4-Dioxane in public drinking water?

The New York State Department of Health (NYS DOH) has adopted a drinking water regulation that requires all public water systems to test for 1,4-dioxane. If found above the MCLs, the water supplier must take steps to lower the level to meet the standard. Exceedances of the MCL signal that steps should be taken by the water system to reduce contaminant levels.

What is being done to remove these contaminants?

NYAW - Merrick is in the process of installing treatment to remove 1,4-dioxane at our Seamans Neck Road Facility and will operate impacted wells in a last on first off sequence to minimize exposure to 1,4-Dioxane. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as rapidly as possible. The deferral is effective until August 25, 2022.

Where can I get more information?

For more information, please contact our Customer Service Center at 1-877-426-6999. You can also contact the Nassau County Health Department at (516) 227-9692. If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

Public Water System ID#: NY2902840

Date: January 21, 2021

For quarterly updates, please visit the following link: https://new-york-water.libertyutilities.com/all/residential/safety/seamans-neck-public-notification.html



ATTACHMENT C

Water Quality Data

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-07407

Lab No.: 70214335001

Sample Information:
Type: Drinking Water
Origin: Raw Well

Routine

Pace

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue Merrick, NY 11566

Attn To: Natasha Niola Federal ID: 2902840

Collected: 05/11/2022 10:30 AM Point N-07407

Received: 05/11/2022 01:19 PM Location Jefferson 11 Well

Collected By CLIENT

Analytical Method:EPA 200.8	_		_		_		_
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Lead	1.7		1	ug/L	15	05/24/2022 5:13 PM	001 BP4N1/1
Thallium	0.42		1	ug/L	2	05/24/2022 5:13 PM	001 BP4N1/1
Analytical Method:EPA 300.0							
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
Chloride	3.7		1	mg/L	250	05/19/2022 12:15	001 BP4U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Dat	<u>e:</u> 05/14/2022 8:07 AM	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	05/17/2022 12:36	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	99%		1	%REC		05/17/2022 12:36	001 AG2R1/2
Analytical Method:EPA 524.2							
Parameter(s)	<u>Results</u>	Qualifier	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1,1-Trichloroethane	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1,2-Trichloroethane	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	< 0.50	N3	1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1-Dichloroethane	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1-Dichloroethene	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,1-Dichloropropene	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2,3-Trichloropropane	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	< 0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1.3-Dichlorobenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
1,4-Dichlorobenzene	<0.50	L2	1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
201120110	~0.00			ug/ =	9	JUILLILULL T.UU I IVI	JUL V JJU 1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

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Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-07407

Lab No.: 70214335001

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola Federal ID: 2902840

Collected: 05/11/2022 10:30 AM Point N-07407

Received: 05/11/2022 01:19 PM Location Jefferson 11 Well

Collected By CLIENT

Bromochloromethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		05/22/2022 4:30 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		05/22/2022 4:30 PM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L1	1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Chloroform	<0.50		1	ug/L		05/22/2022 4:30 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		05/22/2022 4:30 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	05/22/2022 4:30 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	05/22/2022 4:30 PM	001 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	05/22/2022 4:30 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/22/2022 4:30 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	115%		1	%REC		05/22/2022 4:30 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	116%		1	%REC		05/22/2022 4:30 PM	001 VG9C1/2

Analytical Method:EPA 537.1		Prep Method:	EPA 537.	1	Prep Date:	Prep Date: 05/21/2022 12:45			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:		
Perfluorobutanesulfonic acid	<1.9		1	ng/L		05/24/2022 5:42 PM	001 BP3T1/2		
Perfluoroheptanoic acid	<1.9		1	ng/L		05/24/2022 5:42 PM	001 BP3T1/2		

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

January Aracri

Test results meet the requirements of NELAC

unless otherwise noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range



Pace*
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola Federal ID: 2902840 Lab No. : 70214335001 Client Sample ID.: N-07407

05/11/2022 10:30 AM Point N-07407

Received: 05/11/2022 01:19 PM Location Jefferson 11 Well

www.pacelabs.com

Collected By CLIENT

Collected:

Perfluorohexanesulfonic acid	<1.9	1	ng/L		05/24/2022 5:42 PM	001 BP3T1/2
Perfluorononanoic acid	<1.9	1	ng/L		05/24/2022 5:42 PM	001 BP3T1/2
Perfluorooctanesulfonic acid	<1.9	1	ng/L	10	05/24/2022 5:42 PM	001 BP3T1/2
Perfluorooctanoic acid	<1.9	1	ng/L	10	05/24/2022 5:42 PM	001 BP3T1/2
Surr: 13C2-PFDA (S)	115%	1	%REC		05/24/2022 5:42 PM	001 BP3T1/2
Surr: 13C2-PFHxA (S)	120%	1	%REC		05/24/2022 5:42 PM	001 BP3T1/2
Surr: HFPO-DAS (S)	114%	1	%REC		05/24/2022 5:42 PM	001 BP3T1/2
Surr: NEtFOSAA-d5 (S)	114%	1	%REC		05/24/2022 5:42 PM	001 BP3T1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-09338

Lab No.: 70214335002

Type: Drinking Water Origin: Raw Well Routine

Sample Information:

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue Merrick, NY 11566

Attn To: Natasha Niola Federal ID: 2902840

Collected: 05/11/2022 12:00 PM Point N-09338

Received: 05/11/2022 01:19 PM Location Seamanneck 4 Well

Collected By CLIENT

Parameter(s)	Analytical Method:EPA 200.8							
Thallium 0.51 1 ug/L 2 05/24/2022 5:18 PM 002 BP4N1/1 Analytical Method:EPA 300.0 Results Qualifier D.E. Units Limit Analyzed: Container: Chloride 18.4 1 mg/L 250 05/19/2022 12:28 002 BP4U1/1 Analytical Method:EPA 522 Prep Method: EPA 522 Prep Method: EPA 522 Prep Date: 05/14/2022 8:07 AM Container: 1,4-Dioxane (p-Dioxane) 1.7* 1 ug/L 1 05/17/2022 1:09 AM 002 AG2R1/2 Surr. 1,4-Dioxane-d8 (S) 98% 1 wREC 05/17/2022 1:09 AM 002 AG2R1/2 Analytical Method:EPA 524.2 Parameter(s) Results Qualifier D.F. Units Limit Analyzed: Container: 1,1,12-Tetrachloroethane <0.50	Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Analytical Method:EPA 300.0 Parameter(s) Results Qualifier D.F. Units Limit Analyzed: Container.	Lead	<1.0		1	ug/L	15	05/24/2022 5:18 PM	002 BP4N1/1
Parameter(s) Results Qualifier D.F. Units Limit Analyzed: Container: Chloride 18.4 1 mg/L 250 05/19/2022 12:28 002 BP4U1/1	Thallium	0.51		1	ug/L	2	05/24/2022 5:18 PM	002 BP4N1/1
Chloride 18.4 1 mg/L 250 05/19/2022 12:28 002 BP4U1/1	Analytical Method:EPA 300.0							
Analytical Method:EPA 522 Prep Method: EPA 522 Dists Dist D.F. Units Limit Analyzed: Container:	Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Parameter(s) Results Qualifier D.E. Units Limit Analyzed: Container:	Chloride	18.4		1	mg/L	250	05/19/2022 12:28	002 BP4U1/1
1.4-Dioxane (p-Dioxane) 1.7'	Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Dat	e: 05/14/2022 8:07 AM	
Surr: 1,4-Dioxane-d8 (S) 98% 1 %REC 05/17/2022 1:09 AM 002 AG2R1/2	Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Analytical Method:EPA 524.2 Parameter(s) Results Qualifier D.F. Units Limit Analyzed: Container:	1,4-Dioxane (p-Dioxane)	1.7*		1	ug/L	1	05/17/2022 1:09 AM	002 AG2R1/2
Parameter(s) Results Qualifier D.F. Units Limit Analyzed: Container: 1,1,1,2-Tetrachloroethane <0.50	Surr: 1,4-Dioxane-d8 (S)	98%		1	%REC		05/17/2022 1:09 AM	002 AG2R1/2
1,1,1,2-Tetrachloroethane	Analytical Method:EPA 524.2							
1,1,1-Trichloroethane <0.50	Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,2,2-Tetrachloroethane <0.50	1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,1,2-Trichloroethane <0.50	1,1,1-Trichloroethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,1,2-Trichlorotrifluoroethane <0.50	1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,1-Dichloroethane <0.50	1,1,2-Trichloroethane	< 0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,1-Dichloroethene <0.50	1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,1-Dichloropropene <0.50	1,1-Dichloroethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2,3-Trichlorobenzene <0.50	1,1-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2,3-Trichloropropane <0.50	1,1-Dichloropropene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2,4-Trichlorobenzene <0.50	1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2,4-Trimethylbenzene <0.50	1,2,3-Trichloropropane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2,4-Trimethylbenzene <0.50	1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2-Dichlorobenzene <0.50	1,2,4-Trimethylbenzene	<0.50		1	-	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2-Dichloropropane <0.50	1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,2-Dichloropropane <0.50	1,2-Dichloroethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
1,3,5-Trimethylbenzene <0.50	1,2-Dichloropropane	<0.50		1	•		05/22/2022 4:04 PM	002 VG9C1/2
1,3-Dichlorobenzene <0.50				1	-		05/22/2022 4:04 PM	002 VG9C1/2
1,3-Dichloropropane <0.50	•	<0.50		1	•	5	05/22/2022 4:04 PM	002 VG9C1/2
1,4-Dichlorobenzene <0.50	•			1			05/22/2022 4:04 PM	
2,2-Dichloropropane <0.50			L2	1	•			
2-Chlorotoluene <0.50	•			1	-			
4-Chlorotoluene <0.50				•	•			
Benzene <0.50 1 ug/L 5 05/22/2022 4:04 PM 002 VG9C1/2				•				
				1	•			
				1	ug/L			

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Test results meet the requirements of NELAC unless otherwise noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-09338

Lab No.: 70214335002

Sample Information:
Type: Drinking Water
Origin: Raw Well

Raw Well Routine

Pace

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola Federal ID: 2902840

Collected: 05/11/2022 12:00 PM Point N-09338

Received: 05/11/2022 01:19 PM Location Seamanneck 4 Well

Collected By CLIENT

Bromochloromethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		05/22/2022 4:04 PM	002 VG9C1/2
Bromoform	< 0.50		1	ug/L		05/22/2022 4:04 PM	002 VG9C1/2
Bromomethane	< 0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Chlorobenzene	< 0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L1	1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Chloroethane	< 0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Chloroform	< 0.50		1	ug/L		05/22/2022 4:04 PM	002 VG9C1/2
Chloromethane	< 0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		05/22/2022 4:04 PM	002 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	05/22/2022 4:04 PM	002 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Styrene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Toluene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	05/22/2022 4:04 PM	002 VG9C1/2
Trichloroethene	4.7		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	05/22/2022 4:04 PM	002 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/22/2022 4:04 PM	002 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	109%		1	%REC		05/22/2022 4:04 PM	002 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	107%		1	%REC		05/22/2022 4:04 PM	002 VG9C1/2
· /							

Analytical Method: EPA 537.1	Prep Method: EPA 537.1				Prep Date: 05/15/2022 2:46 PM			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Perfluorobutanesulfonic acid	<1.9		1	ng/L		05/17/2022 9:15 PM	002 BP3T1/2	
Perfluoroheptanoic acid	<1.9		1	ng/L		05/17/2022 9:15 PM	002 BP3T1/2	

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Test results meet the requirements of NELAC unless otherwise noted.

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

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range



Pace°
575 Broad Hollow Road, Melville, NY 11747

TEL: (631) 694-3040 FAX: (631) 420-8436

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

www.pacelabs.com
Liberty-NY - Merrick OPS
60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola Federal ID: 2902840 Lab No. : 70214335002 Client Sample ID.: N-09338

Received: 05/11/2022 01:19 PM Location Seamanneck 4 Well

Collected By CLIENT

Collected:

Perfluorohexanesulfonic acid	<1.9	1	ng/L		05/17/2022 9:15 PM	002 BP3T1/2
Perfluorononanoic acid	<1.9	1	ng/L		05/17/2022 9:15 PM	002 BP3T1/2
Perfluorooctanesulfonic acid	<1.9	1	ng/L	10	05/17/2022 9:15 PM	002 BP3T1/2
Perfluorooctanoic acid	<1.9	1	ng/L	10	05/17/2022 9:15 PM	002 BP3T1/2
Surr: 13C2-PFDA (S)	117%	1	%REC		05/17/2022 9:15 PM	002 BP3T1/2
Surr: 13C2-PFHxA (S)	123%	1	%REC		05/17/2022 9:15 PM	002 BP3T1/2
Surr: HFPO-DAS (S)	82%	1	%REC		05/17/2022 9:15 PM	002 BP3T1/2
Surr: NEtFOSAA-d5 (S)	93%	1	%REC		05/17/2022 9:15 PM	002 BP3T1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No.: 70214335003

Client Sample ID.: GAC-3S/4S

Type: Drinking Water
Origin: Raw Well
Routine

Sample Information:

Pace°
575 Broad Hollow Road, Me

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue Merrick, NY 11566

Attn To: Natasha Niola Federal ID: 2902840

Collected: 05/11/2022 12:30 PM Point

05/11/2022 01:19 PM

Point GAC-3S/4S

Location Seamanneck Wells 3/4

Collected By CLIENT

Received:

Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Lead	<1.0		1	ug/L	15	05/24/2022 5:21 PM	003 BP4N1/1
Thallium	<0.30		1	ug/L	2	05/24/2022 5:21 PM	003 BP4N1/1
Analytical Method: EPA 300.0							
Parameter(s)	Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	20.3		1	mg/L	250	05/19/2022 12:42	003 BP4U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Dat	<u>e:</u> 05/14/2022 8:07 AM	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	1.6*		1	ug/L	(1)	05/17/2022 1:25 AM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	98%		1	%REC		05/17/2022 1:25 AM	003 AG2R1/2
Analytical Method:EPA 524.2							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1,2,2-Tetrachloroethane	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1,2-Trichloroethane	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,1-Dichloropropene	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2,3-Trichlorobenzene	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2,3-Trichloropropane	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
1,4-Dichlorobenzene	<0.50	L2	1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
4-Chlorotoluene	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Benzene	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
BIGINOSONZONO	30.00			39, L	•	33,22,2022 0.00 T W	000 1000 1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jungh Com

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No.: 70214335003

Client Sample ID.: GAC-3S/4S

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine



575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola Federal ID: 2902840

Collected: 05/11/2022 12:30 PM Point GAC-3S/4S

Received: 05/11/2022 01:19 PM Location Seamanneck Wells 3/4

Collected By CLIENT

Bromochloromethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		05/22/2022 3:38 PM	003 VG9C1/2
Bromoform	<0.50		1	ug/L		05/22/2022 3:38 PM	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3,L1	1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Chloroform	< 0.50		1	ug/L		05/22/2022 3:38 PM	003 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		05/22/2022 3:38 PM	003 VG9C1/2
Dibromomethane	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Methyl-tert-butyl ether	< 0.50		1	ug/L	10	05/22/2022 3:38 PM	003 VG9C1/2
Methylene Chloride	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Styrene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Toluene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	05/22/2022 3:38 PM	003 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Vinyl chloride	< 0.50		1	ug/L	2	05/22/2022 3:38 PM	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
m&p-Xylene	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
trans-1,3-Dichloropropene	< 0.50		1	ug/L	5	05/22/2022 3:38 PM	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	106%		1	%REC		05/22/2022 3:38 PM	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	107%		1	%REC		05/22/2022 3:38 PM	003 VG9C1/2

Analytical Method:EPA 537.1		Prep Method:	EPA 537.	1	Prep Date:	Prep Date: 05/15/2022 2:46 PM			
Parameter(s)	Results	Qualifier	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:		
Perfluorobutanesulfonic acid	<1.9		1	ng/L		05/18/2022 11:14	003 BP3T1/2		
Perfluoroheptanoic acid	<1.9		1	ng/L		05/18/2022 11:14	003 BP3T1/2		

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Test results meet the requirements of NELAC unless otherwise noted.

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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range



Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No.: 70214335003

Client Sample ID.: GAC-3S/4S

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola Federal ID: 2902840

05/11/2022 12:30 PM Point GAC-3S/4S

Received: 05/11/2022 01:19 PM Location Seamanneck Wells 3/4

Collected By CLIENT

Collected:

Perfluorohexanesulfonic acid	<1.9	1	ng/L		05/18/2022 11:14	003 BP3T1/2
Perfluorononanoic acid	<1.9	1	ng/L		05/18/2022 11:14	003 BP3T1/2
Perfluorooctanesulfonic acid	<1.9	1	ng/L	10	05/18/2022 11:14	003 BP3T1/2
Perfluorooctanoic acid	<1.9	1	ng/L	10	05/18/2022 11:14	003 BP3T1/2
Surr: 13C2-PFDA (S)	94%	1	%REC		05/18/2022 11:14	003 BP3T1/2
Surr: 13C2-PFHxA (S)	112%	1	%REC		05/18/2022 11:14	003 BP3T1/2
Surr: HFPO-DAS (S)	110%	1	%REC		05/18/2022 11:14	003 BP3T1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

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See qualifiers page for additional qualifier definitions.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.



575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

WorkOrder:

70214335

Laboratory Certifications

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383 Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264 Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 New Hampshire Certification #: 2958 New Jersey Certification #: FL022 New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710 North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Date Reported: 05/25/2022

page 10 of 15



WorkOrder:

70214335

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208

Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340

Virginia Certification # 460302

Date Reported: 05/25/2022 page 11 of 15



WorkOrder:

70214335

Additional Qualifiers

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

Date Reported: 05/25/2022 page 12 of 15



575 Broad Hollow Rd., Melville, NY 11747 (631) 694-3040 Fax: (631) 420-8436

Client Info:
Name or Code: Liberty Merick
Address: COD Brooklyn Aue
Merrick NY 11566
Phone #: 5(4 632 2399
Attn: Natasha Niola
Proj. # or (Name):
Bill To:
Copies To:

Sample Request Form **PUBLIC WATER SUPPLIER**

Date: 5/11/22 Collected By: M Gones SaarRivinars 5/11/22 Accepted By: Cooler Temp:

WO#:70214335

WELL RUN TO SYS	TEM SNGAC
Jaff 11	***************************************

☐ YES ☐ NO VOC'S PRESERVED WITH HCI

Sample Types

PW - Potable Water GW - Groundwater

SW - Surface Water WW - Waste Water

AQ - Aqueous - Soil

Purpose

RO - Routine - Resample

- Special

TW - Treated Well - Tank

D - Distribution RW - Raw Well

Origin

MW - Monitoring Well - Influent

- Effluent

Treatment Types

AST - Air Stripper

GAC - Granular Activated Charcoal

- Nitrate Removal Plant - Iron Removal Plant

- Other

Sample Info: page 13 of 15

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field R Cl ₂	leadings pH/Temp	Analysis	Lab No.
11/22 10:30	GW	Jell (N-07407)	RW		RO			1,4 Dioxane OFFC	
							Ĭ.	© POC/UCC OCHOPIDE ⊕ Thall: UM O Lead	
12:00	GW	SN4(N-09338)	RW	/	RO			11 (1	
X			E						
12:30	GW	SNGACCGAL 35/45)	(Colo	GAL	RO			11	
		2							
							1		

			 	 	The scale of the second second
Remarks:					

COC PAGE of	27	Sample Container Count		WO#:70214335
Client NYAW	Profile # 515	53	Use Point Number Spreadsheet	PM: JSA Due Date: 05/25/22 CLIENT: NYAW
WORK TO: 114-DIOX/PFAS POCICL TO	- Pb 5/11 Notes		Add SCLOGFD to first sample for Field Char	OCILITI. ITHW
### ### ##############################	AG34 AG35 AG4E AG3T AG2T AG1T AG1H AG1A CG1U	BP4U BP3U BP3U BP3C BP3S BP2S BP2S BP2S	8P3C 8P3T 8P35 8P1Z 8P1N 8P1B 8P1B	R WGSU WGFU WGFU WGFU WGFU WGFU WGFU SOC SOC
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12				
Container Codes		1		
Glass	Plastic	Misc.	loc	Matrix WT Water
VG9U 40mL unpres clear vial AG4U 125mL unpres amber gl VG9C 40mL Ascorbic-HCI clear vial AG3U 250mL unpres amber gl		SP5T 120mL Collform Na Thio R Terracore Kit	BP1U 1L unpreserved plastic BP3N* 250mL HNO3 plastic	SL Solid
VG9H 40mL HCI clear vial AG2U 500mL unpres amber gl		WG2U 2oz Unpreserved Jar	BP3C 250mL Sodium Hydroxide	NAL Non-aqueous Liquid
VG9S 40mL Sulfuirc clear vial AG1U 1liter unpres amber glas		WGFU 4oz Unpreserved Jar WGKU 8oz Unpreserved Jar	AG2U 500mL unpres amber glass	OL OIL WP Wipe
DG9T 40mL Na Thiosulfate vial AG34 Ammonium Cl 250mL bit DG9Y 40mL Citrate-Na Thiosulfate AG3S 250mL H2SO4 amber of		WGDU 16oz Unpreserved Jar		DW Drinking Water
DG9P 40mL amber vial - TSP AG4E 125mL EDA amber glas		ZPLC Ziplock Bag	* Can also be a BP4N	
DG9A Ascorbid/Maleic Acid 40mL AG3T 250mL Na Thio amber of DG6T Na Thio 60mL Vial AG2R Na Sulfite 500mL (blue		TEDL Tedlar Bag BG1H 1L HCL Clear Glass		
DG9S Ammonium CI/CuSO4 40mL AG1T Na Thiosulfate 1L bottle	BP3C NaOH 250mL bottle	GN General		
CG1U 1L Unpres Jar (Con Ed) AG1H 1L HCl amber glass AG1A (NH4Cl)	BP3T 250mL Trizma BP35 250mL Ammonium Acetate	WP Wipe	SOC DG9T 40mL Na Thio amber vial	2
WG9O Boz clear soil jar	BP3R 250mL NH4SO4-NH4OH	1	DG9A 40mL Ascorbic acid vials	2
WG4Q 4oz clear soil jar	BP1Z 1L NaOH, Zn Acetate BP1N 1L HNO3 plastic	1	DG9Y Citrate/Na Thiosulfate 40m DG6T Na Thiosulfate 60mL vial	1 2
	BP1B Na Thiosulfate Amber Bottle	1	AG3U 250mL unpres amber glass	
			AG3T Na Thiosulfate 250mL bottl BP18 Na Thiosulfate Amber bottle	
			AG1T Na Thiosultate 1L Amber	2
			AG1A (NH4CL)	2
Additional Comments				

	5 × × = S	ample	Conditio	on Up	on Recei	WO#: 70	214335
Pace Analytical **	Client N	Vame:			Project :		
/-		MAY			ŕ	PM: JSA	Due Date: 05/25/22
Courier: Fed Ex UPS USPS Client			Pace 🗀 the	er	==-:	CLIENT: NYAW	
Tracking #: Custody Seal on Cooler/Box Present: Y	es No	Seals in	ntact: TYe	s No	DN/A	Temperature Blank	Present: Yes No
Packing Material:Bubble Wrap Bubbl					100000	Type of Ice: Wet	
Thermometer Used: TH091	Correct	tion Facto	r: + 0.1				ing process has begun
Cooler Temperature(°C): 2-8			ure Correct		2.9		its placed in freezer
Temp should be above freezing to 6.0°C	- 000101	Tomporac	u		2-1		
USDA Regulated Soil (\square N/A, water sample							ents:5/11:22 NT3
Did samples originate in a quarantine zone w	vithin the l	Inited Stat	es: AL, AR, CA	, FL, GA, I	D, LA, MS, NC,		e from a foreign source
NM, NY, OK, OR, SC, TN, TX, or VA (check map)	? 🗆 Ye	es \square No				including Hawaii and	l Puerto Rico]? 🛚 Yes 🏿 No 🛚
If Yes to either question, fill out a Regulat	ted Soil Cl	necklist (F	-LI-C-010) a	nd inclu	de with SCUR	/COC paperwork.	
						COMMENTS:	
Chain of Custody Present:	_ ■Yes	□No		1.			
Chain of Custody Filled Out:	□Yes	□No		2.			
Chain of Custody Relinquished:	∠ Yes	□No		3.			
Sampler Name & Signature on COC:	∠eyes	□No	□N/A	4.			
Samples Arrived within Hold Time:	ElYes	□No		5.			
Short Hold Time Analysis (<72hr):	□Yes	ENO		6.			
Rush Turn Around Time Requested:	□Yes	No		7.			
Sufficient Volume: (Triple volume provided fo		□No		8.			
Correct Containers Used:	⊠Yes	□No		9.			
-Pace Containers Used:	□Yes	□No			15		
Containers Intact:	Yes	□No		10.			
Filtered volume received for Dissolved tests	□Yes	□No	DN/A	11.	Note if se	diment is visible in the d	issolved container.
Sample Labels match COC:	\ □Yes	□No		12.			
-Includes date/time/ID, Matrix: SL WI							
All containers needing preservation have be		□No	N/A	13.	☐ HNO ₃	□H ₂ SO ₄ □NaO	H 🗆 HCl
checked?	.,				-		
pH paper Lot # HC(60347				1			
All containers needing preservation are foun	nd to be			Samp	e #		
in compliance with method recommendation	n?						
(HNO₃, H₂SO₄, HCl, NaOH>9 Sulfide,	Ves	□No	□N/A	1			
NAOH>12 Cyanide)							
Exceptions: VOA, Coliform, TOC/DOC, Oil and	Grease,						
DRO/8015 (water).				Initial v	when complete	ed: Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analysi	s					preservative:	added:
Samples checked for dechlorination:	□Yes	□No	□N/A	14.			
KI starch test strips Lot #							¥
Residual chlorine strips Lot #					Positive for	Res. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	□Yes	□No	EN/A	15.			
Lead Acetate Strips Lot #					Positive for	Sulfide? Y N	
Headspace in VOA Vials (>6mm):	□Yes	□No	-DN/A	16.			
Trip Blank Present:	□Yes	□No	ON/A	17.			
Trip Blank Custody Seals Present	□Yes	□No	DNIA				
Pace Trip Blank Lot # (if applicable):							
Client Notification/ Resolution:				Field D	ata Required?	Y / N	
					Date/Tim	e:	
Comments/ Resolution:							
100 V				-			

^{*} PM (Project Manager) review is documented electronically in LIMS.

Pace

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No.: 70215328001

Client Sample ID.: N-14347

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue Merrick, NY 11566

Attn To: Natasha Niola Federal ID: 2902840

05/19/2022 10:30 AM Point N-14347

Received: 05/19/2022 01:20 PM Location Seaman Neck #3

Collected By CLIENT

Collected:

<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
18.2		1	mg/L	250	05/25/2022 3:26 AM	001 BP4U1/1
	Prep Method:	EPA 522		Prep Date	£ 05/26/2022 11:00	
Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1.9* 93%		1	ug/L %REC	1	05/28/2022 12:58 05/28/2022 12:58	001 AG2R1/2 001 AG2R1/2
	Prep Method:	EPA 537.	1	Prep Date	⊆ 05/26/2022 3:33 PM	
Results	<u>Qualifier</u>	D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
<1.8 <1.8 <1.8 <1.8 <1.8 <1.8		1 1 1 1 1 1	ng/L ng/L ng/L ng/L ng/L %REC %REC	10 10	05/29/2022 11:40 05/29/2022 11:40 05/29/2022 11:40 05/29/2022 11:40 05/29/2022 11:40 05/29/2022 11:40	001 BP3T1/2 001 BP3T1/2 001 BP3T1/2 001 BP3T1/2 001 BP3T1/2 001 BP3T1/2 001 BP3T1/2 001 BP3T1/2
	18.2 Results 1.9* 93% Results <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.	18.2 Results Qualifier 1.9* 93% Prep Method: Qualifier 1.9* 93% Prep Method: Qualifier <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.	18.2 1 Results Qualifier D.F. 1.9* 1 93% 1 Prep Method: EPA 537. Results Qualifier D.F. <1.8	Prep Method: EPA 522 Results Qualifier D.F. Units 1.9* 1 ug/L 93% 1 %REC Prep Method: EPA 537.1 Results Qualifier D.F. Units <1.8 1 ng/L <1.8 1 ng/L	Prep Method: EPA 522	18.2 1 mg/L 250 05/25/2022 3:26 AM Prep Method: EPA 522 Prep Date: 05/26/2022 11:00 Results Qualifier D.F. Units Limit Analyzed: 1.9* 1 ug/L 1 05/28/2022 12:58 93% 1 %REC 05/28/2022 12:58 Results Qualifier D.F. Units Limit Analyzed: <1.8

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.



575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

WorkOrder:

70215328

Laboratory Certifications

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383 Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264 Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 New Hampshire Certification #: 2958 New Jersey Certification #: FL022 New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710 North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Date Reported: 06/01/2022

page 2 of 6



WorkOrder:

70215328

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208

Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340

Virginia Certification # 460302

Date Reported: 06/01/2022 page 3 of 6



575 Broad Hollow Rd., Melville, NY 11747 (631) 694-3040 Fax: (631) 420-8436

Client Info:
Name or Code: Liberty Merrick
Address: 60 Brooklya Ave
Merrick NY 11566
Phone #: 516 632 2399 Attn: Natasha Niola
Proj. # or (Name):
Bill To:
Copies To:

Sample Request Form PUBLIC WATER SUPPLIER

Date: 5//9/22 Collected By: Manny Comes Accepted By: Cooler Temp:

WO#:70215328	
[UZ1302-	

☐ YES ☐ NO VOC'S PRESERVED WITH HCI

¥!			
Sample Types PW - Potable Water GW - Groundwater SW - Surface Water WW - Waste Water AQ - Aqueous S - Soil	Purpose RO - Routine RE - Resample S - Special	Origin D - Distribution RW - Raw Well TW - Treated Well T - Tank MW - Monitoring Well I - Influent E - Effluent	Treatment Types AST - Air Stripper GAC - Granular Activated Charcoal N - Nitrate Removal Plant FE - Iron Removal Plant O - Other

Sample Info:

Date/Time Collected:	Sample Type		Origin	Treatment Type	Purpose	Field R	eadings pH/Temp	Analysis	Lab No.
5/19/22 10/32	GW	Scaman Neck 3(N-14347)	RW	/	RO			1,4 Dioxane PFC Chloride	
5\								@ Chloride	
	10								
Remarks:						1		<u> </u>	l

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			Sent: _						1		Profile # 5 (5 3 Use Point Number S Add 9CLOGF0 to first s													M:				NY!	AW		D	ue	2 [)a	te	:	06	/0	3/	22	2																						
		Worl	k ID:	1,4	10	10	A	Ni	5	P	FP	5	1C	را.	ہا	211	9	-	Not	es_	_	_		_		_	_	_	_	_		_			-		-	-	10 111								į					ļ	ļ		L,					Ť	1	_	
COC Line Item	VG9V	VG9C	чеви	VG9S	1690	1600	1890	DG9A	1990	Seas	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AGIT		HI S	AG1A	CG10	BP4U	BP3U	BPZU	BP10	Scot	2	BPZS	BP4N	BP3N	BPZN		2648	BP3T	BP35	BP3R	BP12		N	8718	SPST	α	WG2U	INCELL		WGKU	WGDD	2810	2	5	Q.	200	SOC							_
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3+	OG9T OG9Y		nL Na					AG34				Jm C					PAN P3N			L HN				-		GKU GDU		oz U Boz (_																			W		-	_	ıg V	/ater				1						
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Pace Analytical *Courier: Fed Ex UPS USPS Clien	Client Nar Nation	YAW	ce 🗇ther		pm:	JSA DU	e Date: 06/03/22
Tracking #: Custody Seal on Cooler/Box Present: Packing Material: Bubble Wrap Bubble B	Yes No le Bags 2i	Seals int ploc of n Factor:	act: 🗌 Yes[No No A	T: S:	emperature Blank Pro ype of Ice: Wet Blo amples on ice, cooling late/Time 5035A kits p	e None process has begun
Temp should be above freezing to 6.0°C USDA Regulated Soil (\sum N/A, water samp Did samples originate in a quarantine zone	within the Un		s: AL, AR, CA,	FL, GA, 1D, LA, N	AS, NC, D	lid samples orignate fr ncluding Hawaii and Pu	s: 5 19 27 MT3 om a foreign source erto Rico]? Yes No
NM, NY, OK, OR, SC, TN, TX, or VA (check map If Yes to either question, fill out a Regul	ated Soil Che	cklist (F-	LI-C-010) an	nd include wit	h SCUR/COC	paperwork. COMMENTS:	
Chain of Custody Present: Chain of Custody Filled Out:		□No □No □No		1. 2. 3.			
Chain of Custody Relinquished: Sampler Name & Signature on COC: Samples Arrived within Hold Time:	□Yes □Yes	□No	□N/A	4. 5. 6.			
Short Hold Time Analysis (<72hr): Rush Turn Around Time Requested: Sufficient Volume: (Triple volume provided	□Yes □Yes for I□Yes	□No		7. 8.			
Correct Containers Used: -Pace Containers Used:	eyes eyes eyes	□No □No □No		9.			
Containers Intact: Filtered volume received for Dissolved tes Sample Labels match COC:	ts □Yes □Yes	□No	□M/A	11. N	lote if sedim	ent is visible in the diss	olved container.
-Includes date/time/ID, Matrix: SL(V All containers needing preservation have checked? pH paper Lot #	VT DIL Deen ⊡Yes	⊡No	DN/A		⊐ HNO₃	□H ₂ SO ₄ □NaOH	□ HCI
All containers needing preservation are for in compliance with method recommenda (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	tion? □Yes :	⊡No	DN/A	Sample #	30		*
Exceptions: VOA, Coliform, TOC/DOC, Oil and DRO/8015 (water). Per Method, VOA pH is checked after ana			**		completed:	Lot # of added preservative:	Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot #	□Yes	□No	EM/A	14. Po	ositive for Re	s. Chlorine? Y N	
Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide Lead Acetate Strips Lot #	? □Yes	□No	DN/A		ositive for Su	lfide? Y N	
Headspace in VOA Vials (>6mm): Trip Blank Present Trip Blank Custody Seals Present	□Yes □Yes □Yes	□No □No	ON/A	16. 17.			
Pace Trip Blank Lot # (if applicable): Client Notification/ Resolution: Person Contacted:				Field Data	Required? Date/Time:	Y / N	
Comments/ Resolution:							

^{*} PM (Project Manager) review is documented electronically in LIMS.