

WELCOME TO OUR

# LONG ISLAND WATER QUALITY TOWN HALL



MARCH 6, 2025, VALLEY STREAM VILLAGE HALL



**NYS Assemblywoman  
Judy Griffin  
District 21**



**NYS Assemblywoman  
Michaelle Solages  
District 22**



**Nassau County Legislator  
Carrie Solages  
District 3**



## PRESENTATIONS BY:





# PFAS & 1.4 Dioxane CONTAMINATION AND IMPACTS



*Adrienne Esposito*  
*Citizens Campaign for the Environment*





# The Problem: PFAS Chemicals

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*Per- and polyfluoroalkyl substances are a class of thousands of manufactured chemicals that have been used in industry and consumer products for many decades, due to their non-stick, grease-resistant, and waterproof properties. They were also used abundantly in fire fighting foam.*

# PFAS Water Contamination

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- PFAS are called “Forever Chemicals” because they do not easily breakdown and persist for a long time in the environment, especially in water.
- Scientists estimate that more than 200 million Americans have drinking water contaminated with PFAS at concentrations of 1 ppt.
- PFAS contamination of drinking water is particularly concerning.
- People are exposed when they drink from the tap, cook, and bathe.
- In August 2020, New York adopted a drinking water standard of 10 ppt.



# Where Are PFAS Chemicals Being Used?



# PFAS in Consumer Products

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- Artificial turf
- Firefighting foam – **banned in NY**
- Food packaging – **banned in NY**
- Rugs
- Clothing – **banned in NY**
- Antifogging sprays and wipes
- Cosmetics
- Personal care products
- Menstrual products
- Textiles – **banned in carpets in NY**
- Cookware
- Ski waxes
- Architectural paints
- Cleaning products
- Automotive products
- Fabric treatments
- Non-wearable textile goods
- Dental floss



## CCE's Map of PFAS Contamination on Long Island (2023 data)





# The Problem: 1,4-Dioxane

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*Synthetic Organic Compound (SOC), which is never found in nature.*

*The highest detections in the country are in Long Island's wells.*

*1,4-Dioxane is listed as "likely to be carcinogenic to humans," with a Lifetime Cancer Risk Guideline for drinking water of 0.35 ppb by the U.S. EPA. 11 water districts on LI have 10x that or more. Hicksville was highest w/ 33ppb.*

*The chemical has been linked to tumors of the liver, kidneys, and nasal cavity.*



# 1,4-Dioxane in Everyday Products

CCE tested 30 products (shampoos, body washes, laundry detergents, and baby products) and found 23 contained 1,4-dioxane.

2018

2019

CCE conducted the most comprehensive testing in the nation.



**65/80 Products Tested, or 80%, Contain Detectable Levels of 1,4-Dioxane!!!**

# The Dirty Dozen

Products with the Highest Levels of Probable Carcinogen 1,4-Dioxane

1 Victoria's Secret  
Bombshell Body Wash



17,000 ppb

2 Victoria's Secret  
Love Body Wash



16,000 ppb

3 Tide Original  
Detergent



14,000 ppb

4 Ivory Snow  
2X Ultra Detergent



11,000 ppb

5 Dreft Stage 1/  
Newborn Detergent



10,000 ppb

6 Gain Original  
Detergent



10,000 ppb

7 Tide Simply + Oxi  
Detergent



8,300 ppb

8 The Home Store  
Lemon Scented Dish Soap



7,700 ppb

9 Baby Magic  
Hair and Body Wash



7,600 ppb

10 Up&Up (Target)  
Free + Clear Dish Soap



6,400 ppb

11 Persil Original  
Detergent



6,100 ppb

12 Pantene Pro-V  
Nature Fusion Shampoo



5,500 ppb

# THE GREEN FIFTEEN

- Aveeno
- Babyganics
- Burt's Bees
- Cantu
- Dr. Bronners
- Dove
- The Honest Company
- Method
- Mrs. Meyer's
- Nature's Promise
- Seventh Generation
- Shea Moisture
- Suavitel
- Downy

## Products with No Detectable Levels of 1,4-Dioxane

- 1 Aveeno Active Minerals Pure Renewal Shampoo    2 Aveeno Baby Gentle Wash and Shampoo    3 Babyganics Bubble Bath    4 Burt's Bees Lavender Honey Body Wash    5 Cantu Shea Butter Natural Hair Shampoo



- 6 Dr. Bronner's Hemp Peppermint Soap    7 Dove Body Wash Cucumber and Green Tea    8 The Honest Co. Baby Shampoo and Body Wash    9 Method Body Wash With Avocado Extract    10 Mrs. Meyer's Lavender Scented Detergent



- 11 Nature's Promise Free and Clear Detergent    12 Seventh Generation Free and Clear Detergent    13 Shea Moisture Coconut and Hibiscus Shampoo    14 Suavitel Field Flowers Detergent    15 Ultra Downy April Fresh Fabric Softener



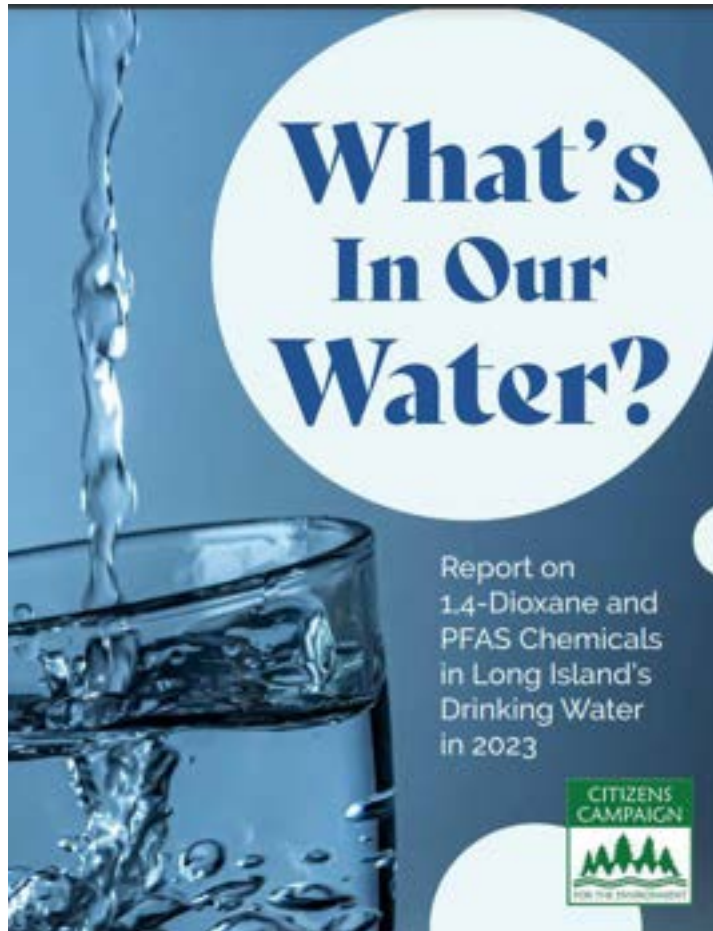


## CCE's Map of 1,4 Dioxane Contamination on Long Island (2023 data)



# 1,4-Dioxane and PFAS

(High levels based on the latest water quality reports – 2023 data)



Liberty  
Water –  
Lynbrook

- 1,4-Dioxane – 1.3 ppb
- PFOA – 11 ppt
- PFOS – 5.6 ppt

Water  
Authority  
of  
Western  
Nassau

- 1,4-Dioxane – .86 ppb
- PFOA – 33 ppt
- PFOS – 17 ppt

# There is **NO** Safe Level of PFAS Exposure

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- The U.S. Environmental Protection Agency issues health advisories that provide information on a contaminant that can cause negative human health effects and is known or anticipated to occur in drinking water.
- Recently, the EPA issued interim health advisory levels for PFOA (0.004 ppt) and PFOS (0.02 ppt).
- These advisories are so low it means that there is virtually no safe level of exposure to PFOA and PFOS.



# New York State Drinking Water Standards



- 2020 – NYS establishes the strongest drinking water standards for 1,4-dioxane, PFOA, PFOS in the nation.
  - 1,4-dioxane: 1ppb
  - PFOA/PFOS: 10ppt
- 2021 – Residents get letters from water suppliers stating they received deferrals in meeting state standards for these contaminants.
- 31 Water suppliers in NY applied for these deferrals – 24 applicants were on LI, and 21 of those received deferrals.
- Municipalities and water suppliers are suing polluters for cost of improved water treatment and installing advanced treatment.
- In 2023, NY considered drinking water standards for additional PFAS chemicals and a cumulative standard.



# Victory! EPA's New PFAS Standards

- Drinking water standards
  - 4 ppt for PFOS and PFOA
  - 10 ppt for PFNA, PFHxS, and Gen X chemicals.
  - Cumulative impact standard for PFNA, PFHxS, PFBS, and Gen X
- **Will protect millions of addition New Yorkers including approx. 1 million on Long Island**
- \$1 billion from Bi-Partisan Infrastructure Act for water suppliers to install advanced treatment.
- Grants will be available for testing and treatment to private well owners.



# Impact of EPA's Drinking Water Standards on New York

- New York's drinking water standards for PFOA and PFOS will be lowered from 10 ppt down to 4 ppt.
- An estimated 296 additional communities will need to install PFAS treatment technology.
- Treating for PFAS in drinking water is costly and will require state and federal investments.
- New York needs to turn off the tap on PFAS pollution.





# Turning off the Tap on Emerging Contaminants: *NY Bans 1,4-Dioxane in Products*

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- *CCE worked with Senator Kaminsky & Assemblyman Englebright to pass a bill to ban 1,4-dioxane in products in NY.*
- *Ban took effect 2022, was fully implemented in 2024.*



# Laundry Detergents?

Despite having high levels of 1,4 dioxane in our independent testing, there was no exemption request listed for ANY tide products or other detergents CCE found to have high levels of 1,4-dioxane prior to the law's passage.



# 2024 Report: Protecting NY Communities from 1,4-Dioxane

- We independently tested leading detergents that previously had high levels of 1,4-dioxane – they're in compliance.

<u>LAUNDRY DETERGENT</u>	<u>1,4-DIOXANE LEVELS 2019</u>	<u>1,4-DIOXANE LEVELS 2024</u>
Tide Original	14,000 ppb	205 ppb
Persil	6,100 ppb	928 ppb
Tide Simply Oxi	8,300 ppb	567 ppb
Gain Original	10,000 ppb	188 ppb
Dreft Stage 1 Newborn	10,000 ppb	127 ppb

- In 2024 the state law was fully implemented requiring 1,000 ppb or less for products. In 2023, 1500+ products were exempted.
- As a result of this law, Proctor & Gamble have reduced 1,4-dioxane in all their products sold in North America

**NY's 1,4-Dioxane Law Was a Success**





# Turning off the Tap on Emerging Contaminants:

## *Banning PFAS in Everyday Products*

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- *PFAS is used in textile articles, rugs, fabric treatments, cookware, ski waxes, architectural paints, cleaning products and more.*
- Currently there is legislation (S.187) to ban the sale of PFAS in everyday products.
- Targets products in common use for which there are ample safer alternatives.





Department of  
Environmental  
Conservation

# Long Island Water Quality

Assemblymember Solages Town Hall Event

March 6, 2025

## Water Quality – What Does It Mean?

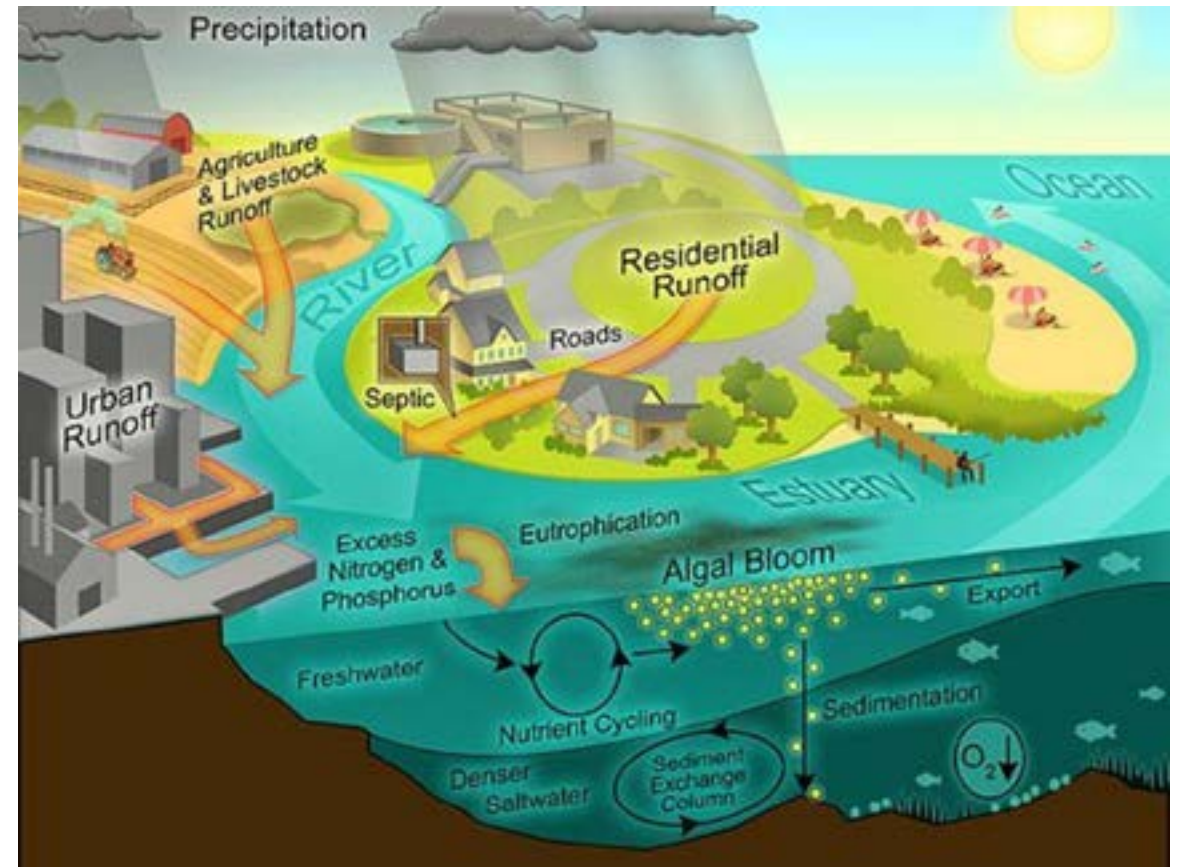
- Pollutants like nitrogen, phosphorous, bacteria, and other contaminants can enter our waterways leading to environmental concerns
- Nitrogen pollution is the leading cause of water quality decline on Long Island
- Excess nitrogen can cause:
  - Harmful algal blooms
  - Fish kills
  - Degraded wetlands and salt marshes
  - Hypoxia – areas of low dissolved oxygen levels
  - Concerns to human health
  - And more



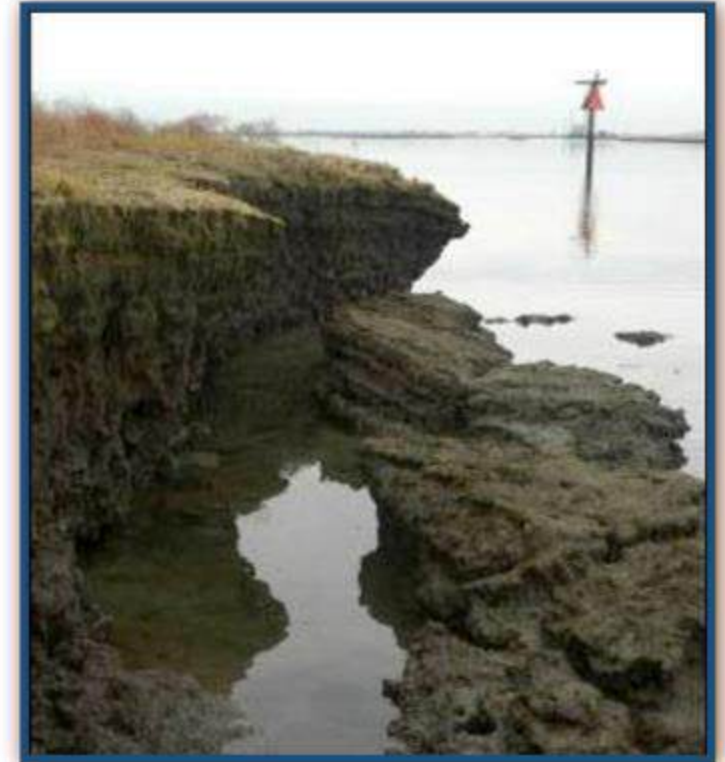


# Water Quality – Nitrogen

- Sources:
  - Human Waste
    - Municipal wastewater treatment plants
    - Cesspools and septic systems
  - Fertilizer
  - Stormwater Runoff
  - Atmospheric Deposition

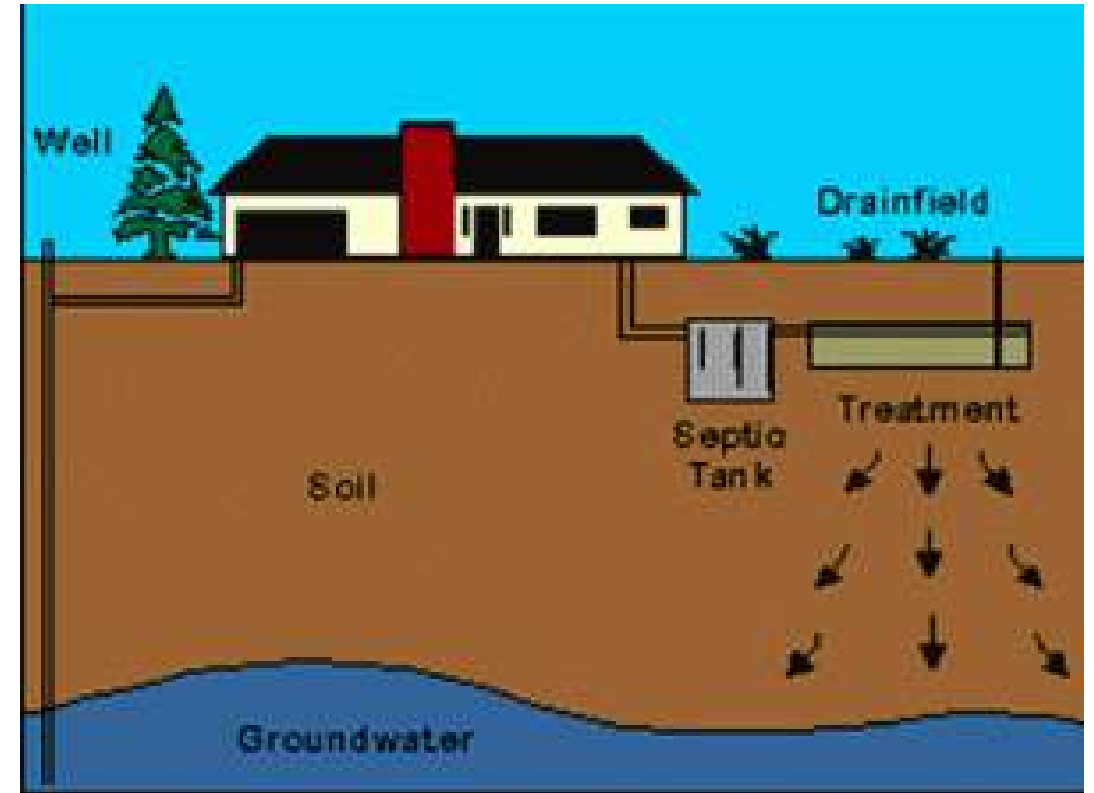
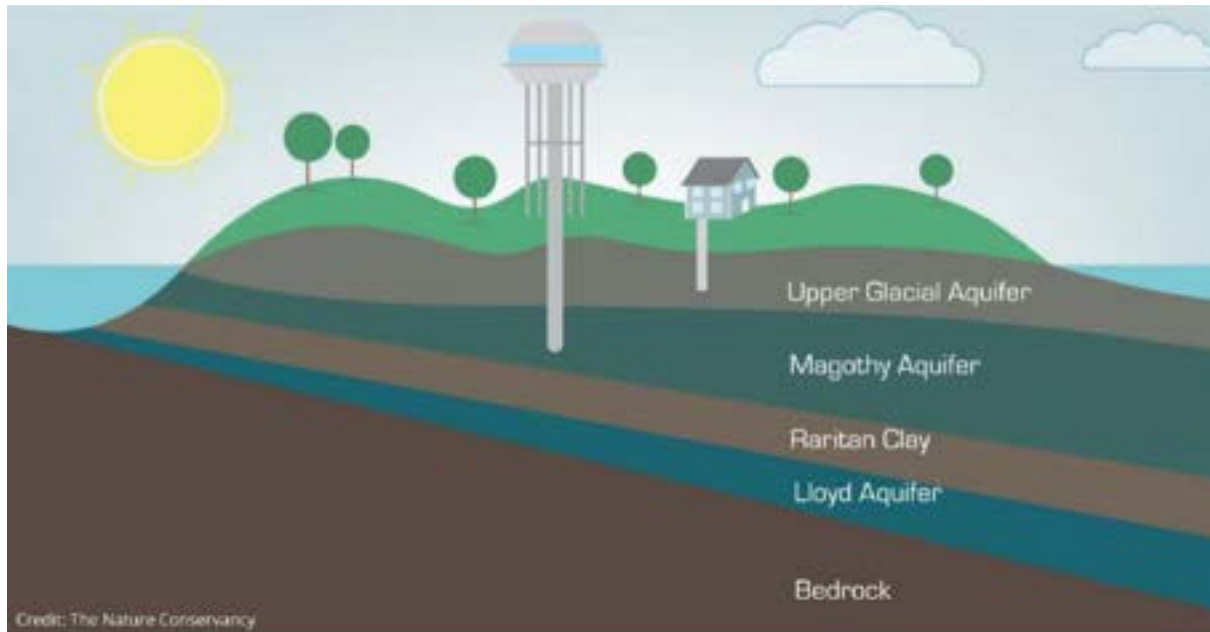


# Water Quality – Nitrogen in Surface Water



# Water Quality – Nitrogen in Groundwater

- Inadequate cesspools and septic systems can leach nitrogen (as well as other contaminants) into our groundwater
- This is especially of concern to Long Islanders, as the drinking water IS the groundwater



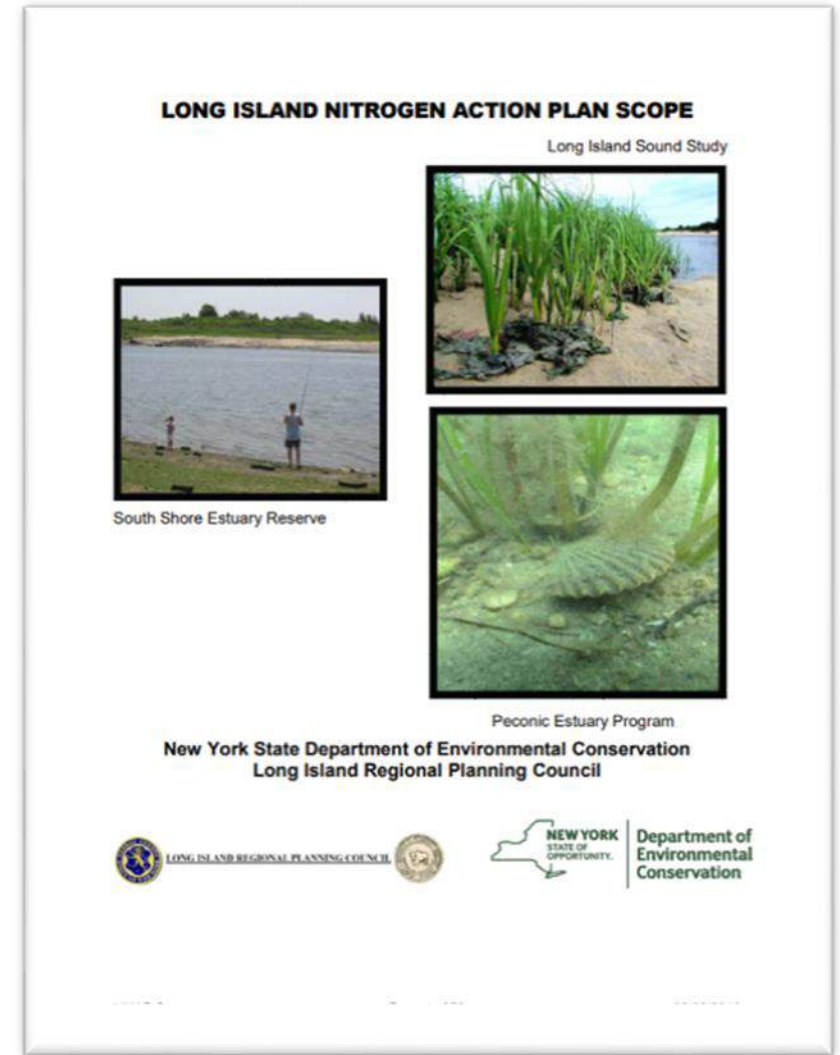


A scenic view of a large lake surrounded by forested hills under a cloudy sky. The text is overlaid on the upper portion of the image.

# **How is New York State Addressing Nitrogen Pollution?**

# Long Island Nitrogen Action Plan (LINAP)

- Started in 2015
- \$5 million in state budget
- LINAP Scope to guide program



# LINAP Goals

1. Assess nitrogen pollution in Long Island waters
2. Identify sources of nitrogen to surface and ground waters
3. Establish nitrogen reduction endpoints
4. Develop implementation plans to achieve reductions





# Achievements & Initiatives

- Subwatershed/Nine Element Plans
- Septic Replacement
- Sewering Projects
- Fertilizer Recommendations
- Water Reuse
- Nutrient Bioextraction
- Water Exchange Study
- Long Island Garden Rewards
- Nitrogen Smart Communities
- Permeable Reactive Barriers
- Center for Clean Water Technology Research

# Wastewater Projects – Bay Park Conveyance Project





# Wastewater Projects – Bay Park Conveyance Project

## South Shore Water Reclamation Facility

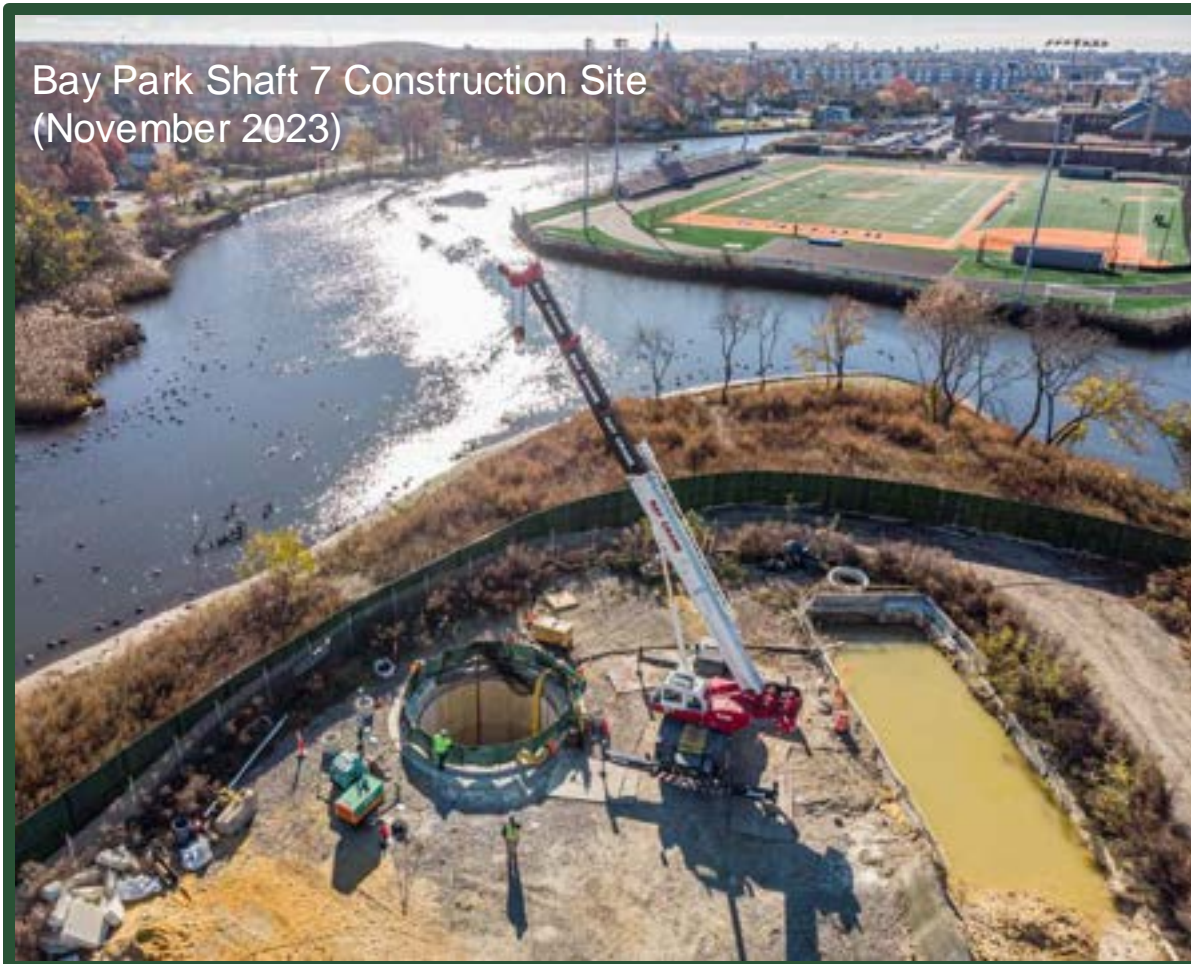
- Diversion Structure
- Wet Well
- Pump Station





# Wastewater Projects – Bay Park Conveyance Project

## Microtunneling





# Wastewater Projects – Bay Park Conveyance Project

## Sliplining on Sunrise Highway

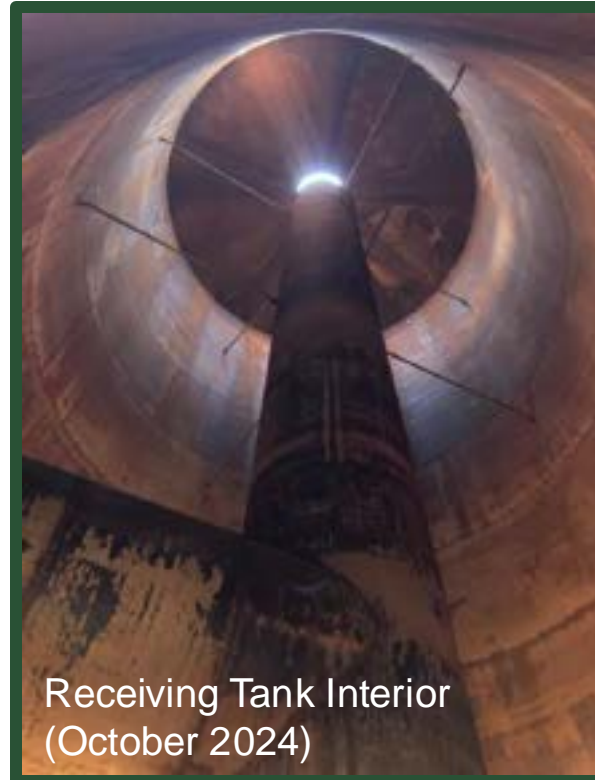




# Wastewater Projects – Bay Park Conveyance Project

## Cedar Creek Water Pollution Control Plant

- Receiving Tank
- Wet Tap
- Upgrades to existing Pump Station





# Wastewater Projects – Bay Park Conveyance Project

## PROJECT BY THE NUMBERS

### CONSTRUCTION PROGRESS BY THE NUMBERS

56,398

LINEAR FEET OF CONVEYANCE  
PIPELINE INSTALLED



84%

CONSTRUCTION  
COMPLETE



99%

OF PIPELINE COMPLETED\*



### RESTORATION PROGRESS BY THE NUMBERS

22/24

SITES RESTORED  
ALONG SUNRISE  
HIGHWAY



5/14

LANDSCAPE  
RESTORATION  
PERFORMED



356

SHRUBS PLANTED



211

TREES PLANTED



*\*Microtunneling & Sliplining are Complete*

## Western Bays Resiliency Initiative

The Bay Park  
Conveyance Project

The Long Beach  
Consolidation Project

The Point Lookout  
Sewer Feasibility Study

# **Long Island Action Agenda**

The background image is a landscape photograph. It shows a wide, calm body of water in the foreground, likely a lake or a wide river. The water has a slightly rippled surface. In the middle ground, there are rolling hills covered in dense, green trees. The sky is filled with soft, grey clouds, suggesting an overcast day. The overall tone is natural and serene.

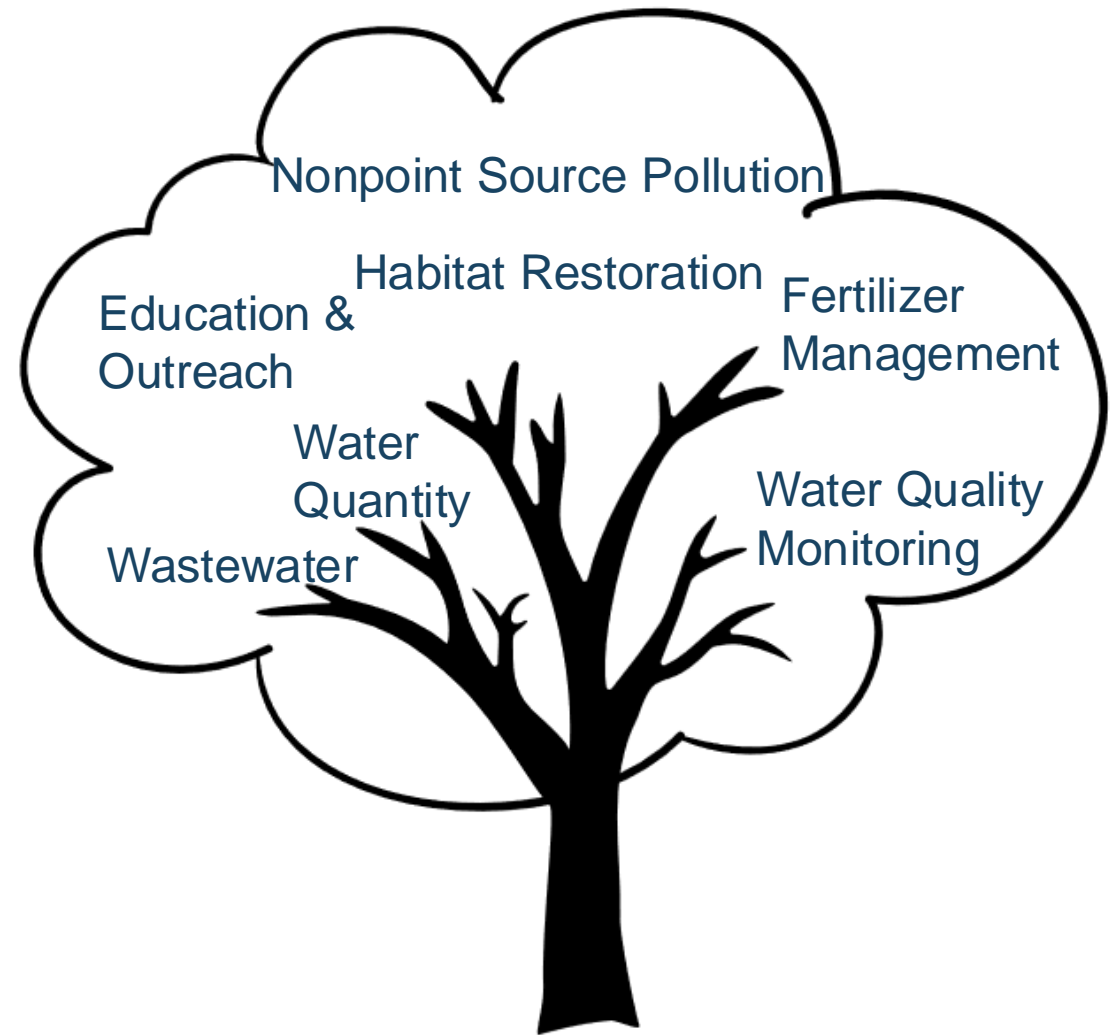


# Long Island Action Agenda

- Since 2015, all of LINAP's goals have been achieved:
  - ✓ Assess nitrogen pollution
  - ✓ Identify the sources
  - ✓ Establish nitrogen reduction endpoints
  - ✓ Develop implementation plans to achieve reductions
- Future outlook: a new 10 year strategic framework is needed

# Long Island Action Agenda

- The Long Island Action Agenda will be similar to the LINAP Scope as a guiding document, but it will include a variety of water resource topics



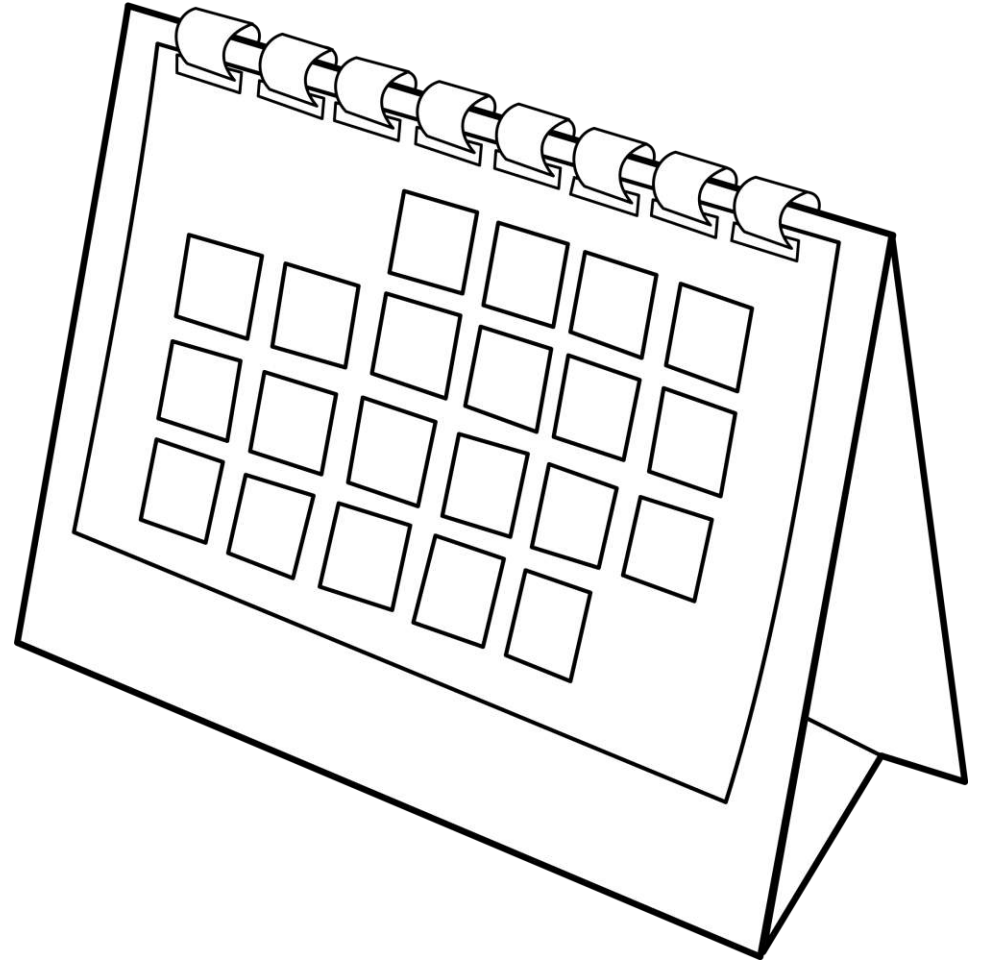
# Long Island Action Agenda

- Organized into four goals:
  - Clean Water
  - Healthy Habitats
  - Sustainable Groundwater Resources
  - Inspired & Engaged Public
- Each goal has multiple implementation actions to guide the work of the focus of water quality projects
- The Action Agenda was drafted with a group of key regional stakeholders, known as the Action Agenda Implementation Committee



# Long Island Action Agenda – Next Steps

- Internal DEC Review
- Release for Public Comment first half of 2025
- Address Public Comments and release late 2025
- Begin implementing the Action Agenda!



# Long Island Action Agenda – Next Steps

- Connect with us!
  - Reach out via email with any questions or comments [liwaterquality@dec.ny.gov](mailto:liwaterquality@dec.ny.gov)
  - Use the QR Code to subscribe to the LINAP Newsletter! Keep informed on current water quality initiatives, as well as be alerted when the public comment period opens:





# **Long Island Groundwater Sustainability Project (LIGWSP)**



# LIGWSP - Background

- Model needed to manage groundwater resources
- Sole source aquifers for 2.8 million people
- 2016 - DEC engaged USGS to develop model to evaluate aquifer response to potential stresses
- Ensure sustainable equitable use of the water supply
- Study is being done in three phases with the first focused on Western Long Island including Nassau County

# LIGWSP – Data Collection

Each Phase of the project involves drilling, data collection, incorporation of new data, and model recalibration.

## Phase1



The phase one drilling effort has been completed. The map showing the well sites and the link to the lithologic and geophysical logs are now available.

[View Phase1 Network](#)

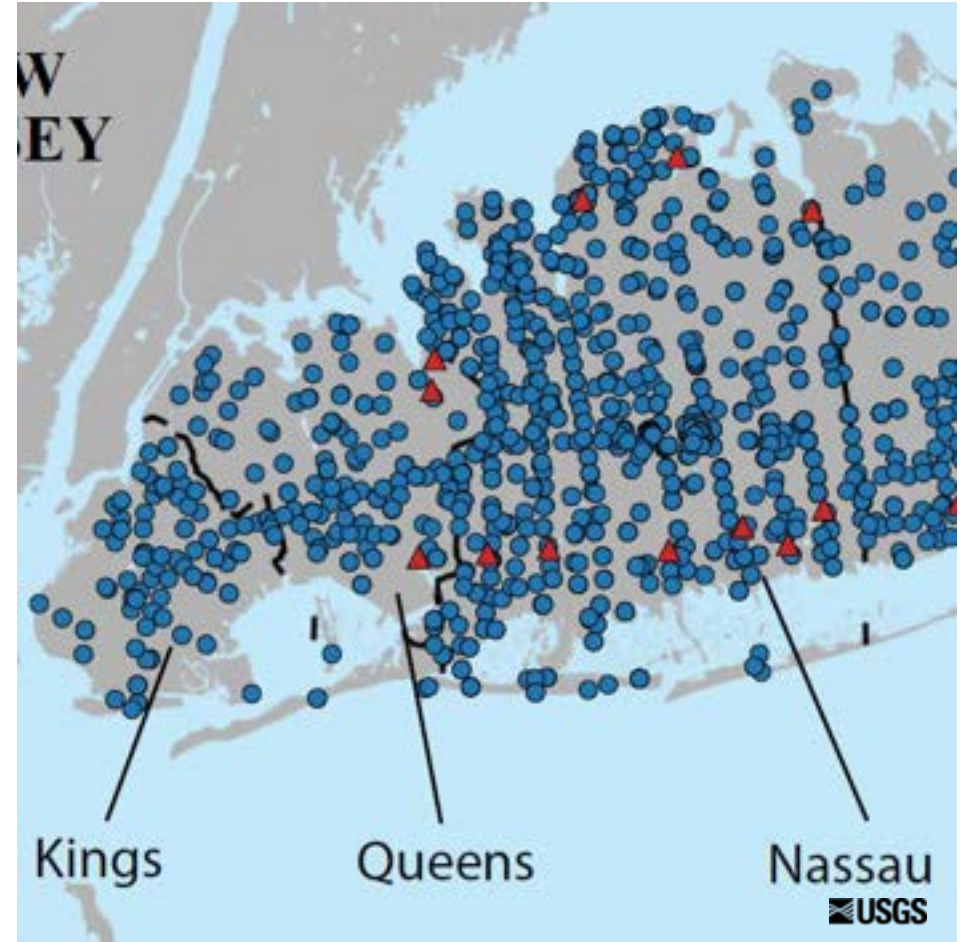
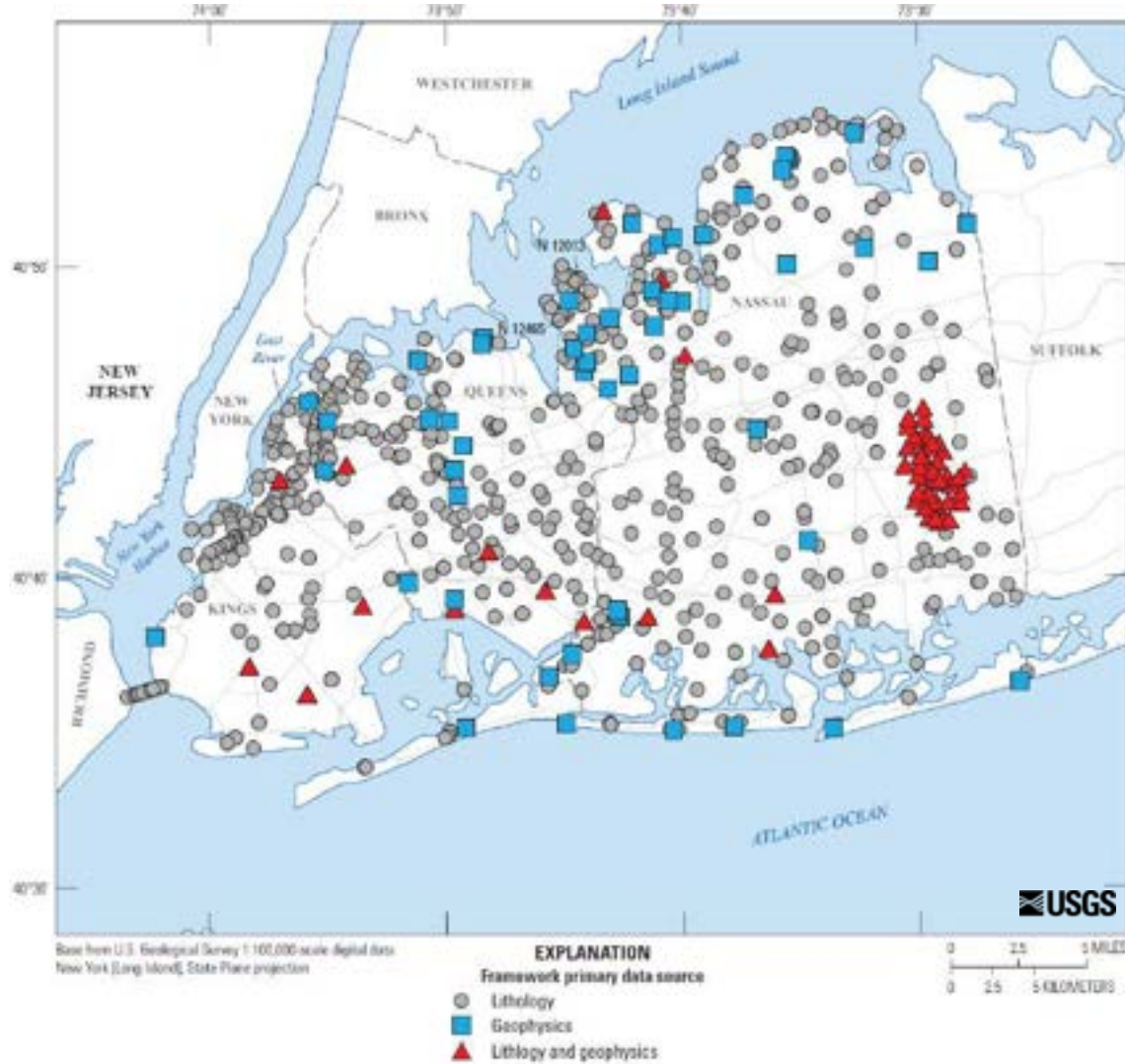
## Phase2



The phase two drilling effort for central and eastern Long Island began in the fall of 2021. The map showing the completed and proposed wells is now available.

[View Phase2 Network](#)

# LIGWSP – Data Collection





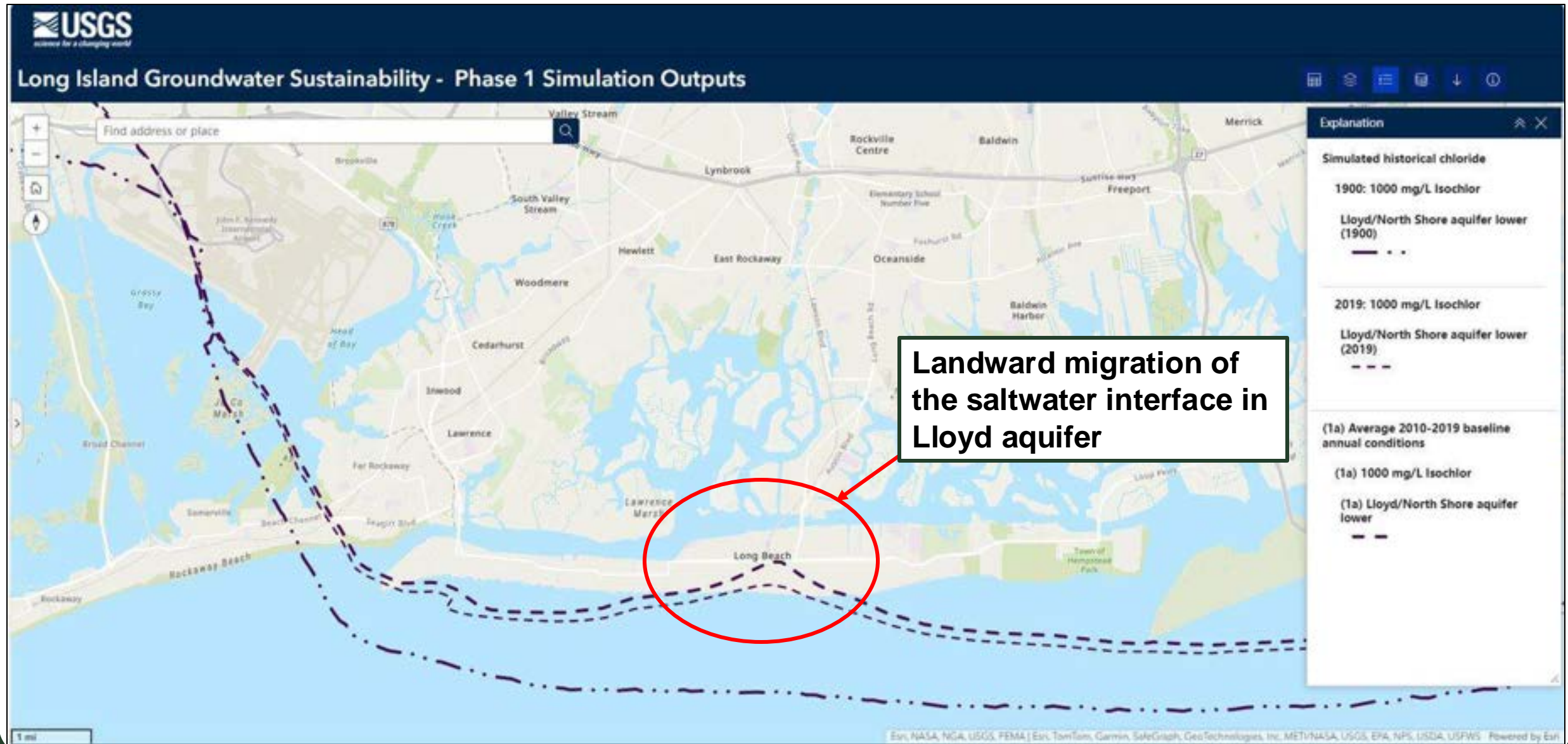
# LIGWSP - Model Capabilities

- Assess regional aquifer responses to natural and induced stresses
- General guide in sustainable water withdrawal permitting
- Publicly available
- Model can be used to demonstrate the following over a set period of time:
  - Freshwater saltwater interface
  - Water table elevation
  - Water levels
  - Depth to water
  - Hydrologic budget

# LIGWSP - Phase 1

- Phase 1 released in Summer 2024
- Department staff are currently analyzing data from the Phase 1 scenarios
- Focusing on saltwater intrusion first
- Saltwater intrusion is an important concern for coastal communities
- Modeling analysis indicates only minor changes in the regional freshwater volume since predevelopment
- Localized concerns addressed as DEC's Division of Water review and scenario modeling progresses

# LIGWSP – Phase 1 Model Scenario Results

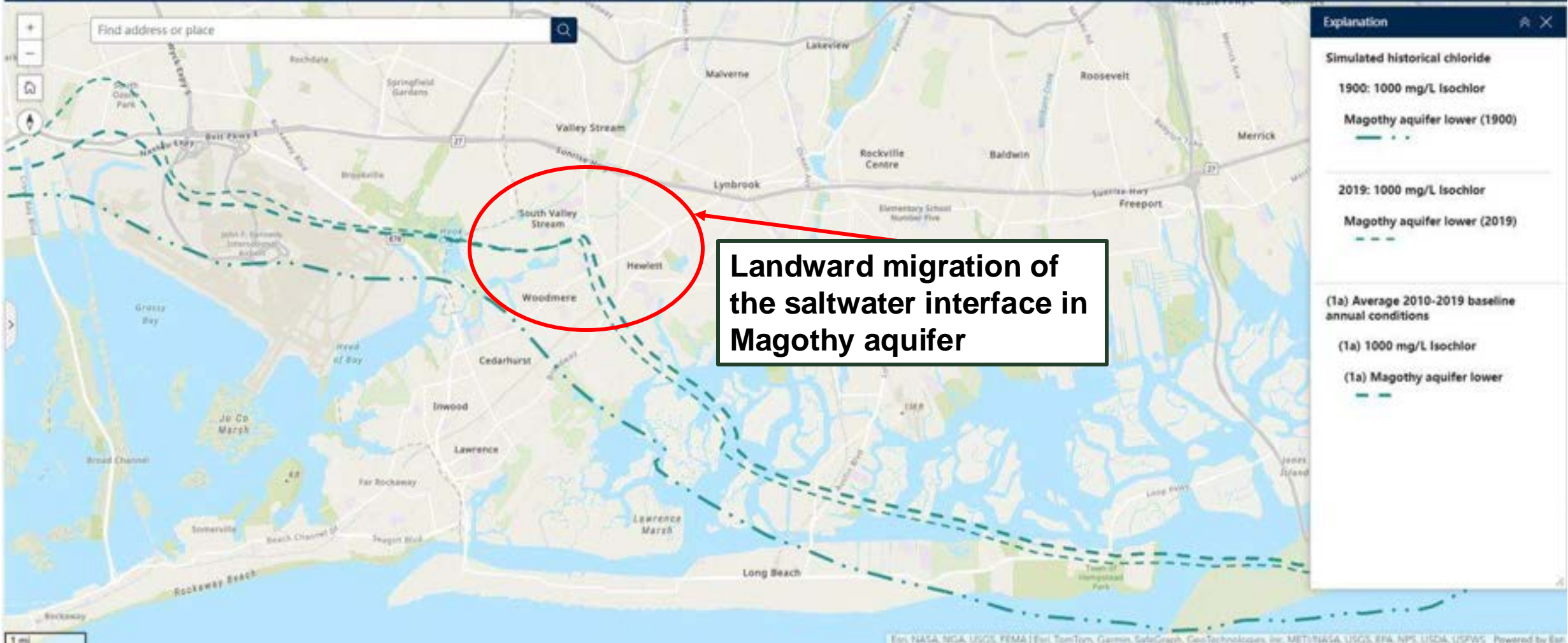




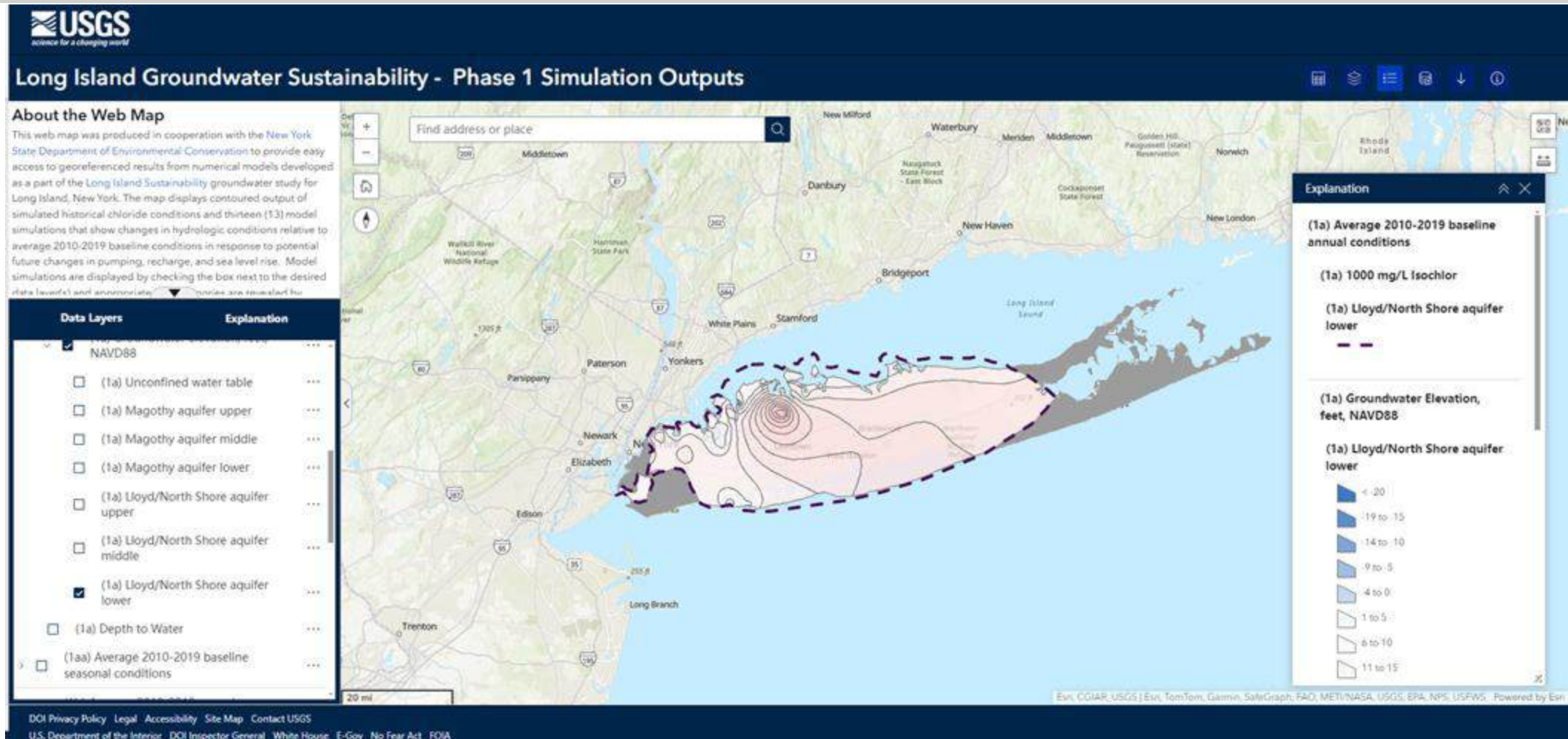
# LIGWSP – Phase 1 Model Scenario Results



## Long Island Groundwater Sustainability - Phase 1 Simulation Outputs



# LIGWSP – Website and Model Results Viewer



USGS Project Website: <https://www.usgs.gov/centers/new-york-water-science-center/science/groundwater-sustainability-long-island-aquifer-system>

## **LIGWSP – Next Steps**

- Continue Phase 2 and 3 work
- Continue to evaluate model scenario results
- Work with water suppliers and others to address areas and issues of concern to ensure sustainable water use for Long Island





# **New York State's Investments in Water Quality**

## New York State's Financial Commitment to Long Island Water

- Bay Park Conveyance Project: \$167.5 million
- Groundwater Sustainability Project \$9 million
- WQIP: \$99 million for Nassau and Suffolk alone
- Bond Act: \$6 million for sewer improvements to help Reynolds Channel



## **New York's Nation-leading Investments in Water Infrastructure**

- Clean water Infrastructure Act (CWIA)
  - \$500 million proposed by Governor Hochul in this year's state budget
- CWIA Programs
  - Include the Water Quality Improvement Program (WQIP) and the Hazardous Waste Remediation Cleanup program (state Superfund)
- WQIP
  - Supports clean water infrastructure projects, land acquisitions, salt storage structures, and new in 2024, road salt reduction best management practices
  - \$222 million awarded statewide in 2024



## New York's Nation-leading Investments in Water Infrastructure contd..

- NYS Environmental Facilities Corporation (EFC)
  - EFC assists communities throughout New York State to undertake critical water quality infrastructure projects by providing access to low-cost capital, grants and expert technical assistance
  - \$2.2 billion in financial assistance for local water infrastructure projects in 2024 alone
- Disadvantaged Communities (DACs)
  - 87% of funding in the last round of WQIP and Non-Agricultural Nonpoint Source Planning Grant was awarded to projects that will improve water quality for Environmental Justice communities and/or DACs



## Take Action Today! Reduce Nitrogen Pollution & Conserve Water

1. **Don't fertilize** - If you're not currently using fertilizer and you are happy with how your lawn looks, don't fertilize. Many lawns can be aesthetically pleasing without any added fertilizer.
2. **Eliminate or shrink your lawn** - Consider reducing the lawn area requiring fertilizer. Replacing grass with native plants can help reduce the amount of fertilizer, pesticides, and water needed to maintain the landscape.
3. **Keep grass clippings on your lawn** – Instead of removing grass clippings after mowing, keep them on your lawn to return nutrients to the soil. This can reduce the amount of supplemental fertilizer the lawn may need.
4. **Use rain sensors & smart irrigation controllers** - Rain sensors and smart irrigation controllers make sure lawns only get watered when they actually need it, eliminating wasteful overwatering.
5. **Inside your home** – Use EPA WaterSense branded appliances that are much more water-efficient than standard appliances. Also consider using less water by shortening your showers.

# Thank you!

Susan Van Patten, Long Island Watershed Coordinator  
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**Department of  
Environmental  
Conservation**

# **Liberty New York Water Customer Education**

**March 6, 2025**





## Overview

- About Liberty
- Conservation
- Water Quality
  - Emerging Contaminants
  - Lead Service Lines
- STOP the Hidden Tax
- Grant Program Initiative



# About Liberty

## Liberty New York Water

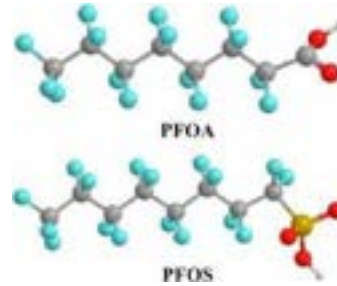
- Serving parts of Nassau County and some upstate systems
- 126,000+ customer connections
- 1,267 miles of pipe
- 100 ground water wells
- Average gallons/day
  - Lynbrook System – 18 million gallons
  - Merrick System – 8.5 million gallons



# Water Quality- Hot Topics

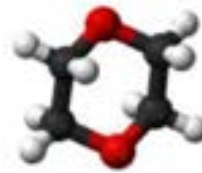
- **Emerging Contaminants- PFOA/PFOS**

- Testing
- Treatment
- Upcoming regulations in 2027; four new species regulated (PFHxS, GenX (HFPO-DA), PFNA, PFBS)
- Hazard Index

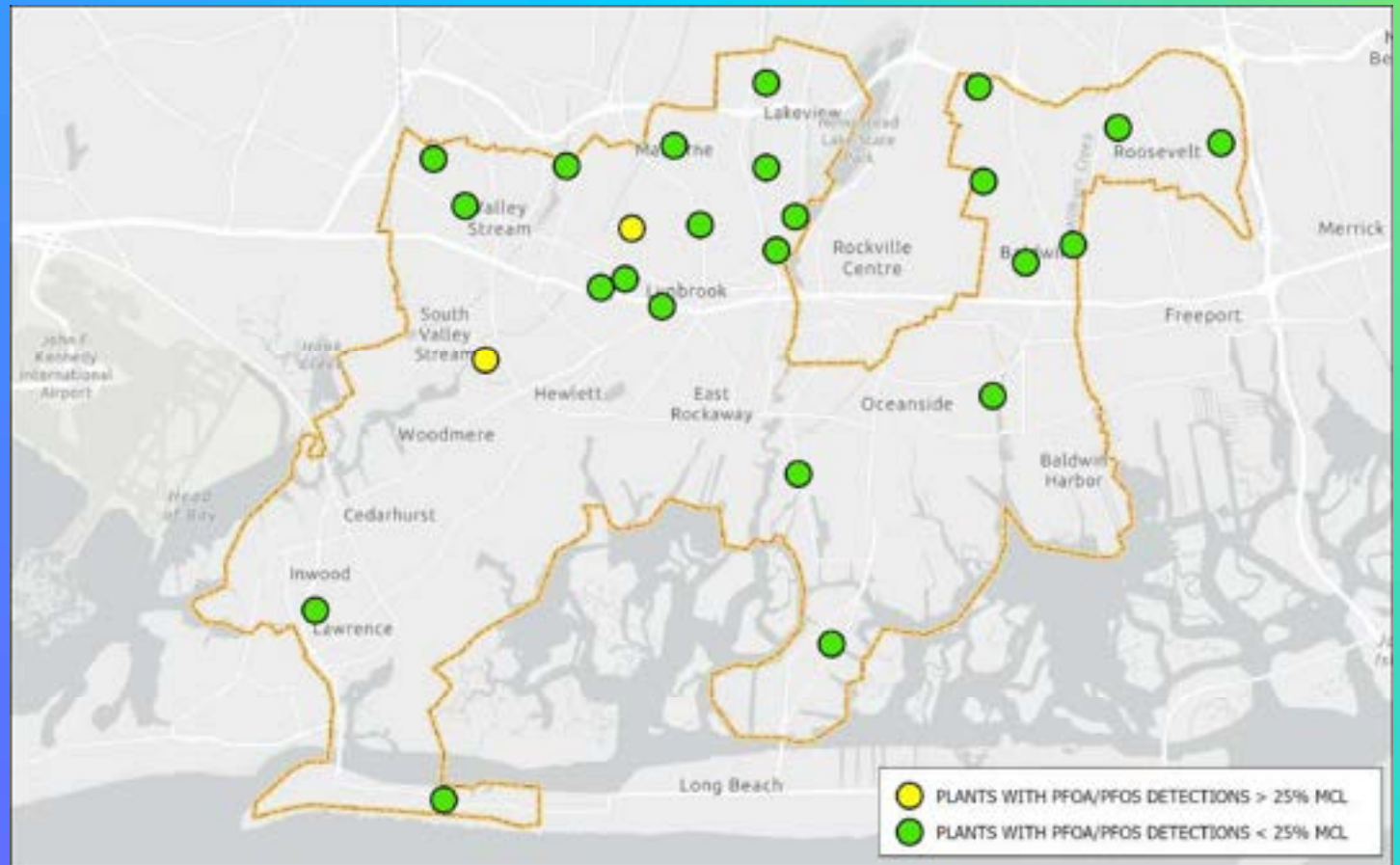


- **Emerging Contaminants- 1,4 dioxane**

- Testing
- Treatment

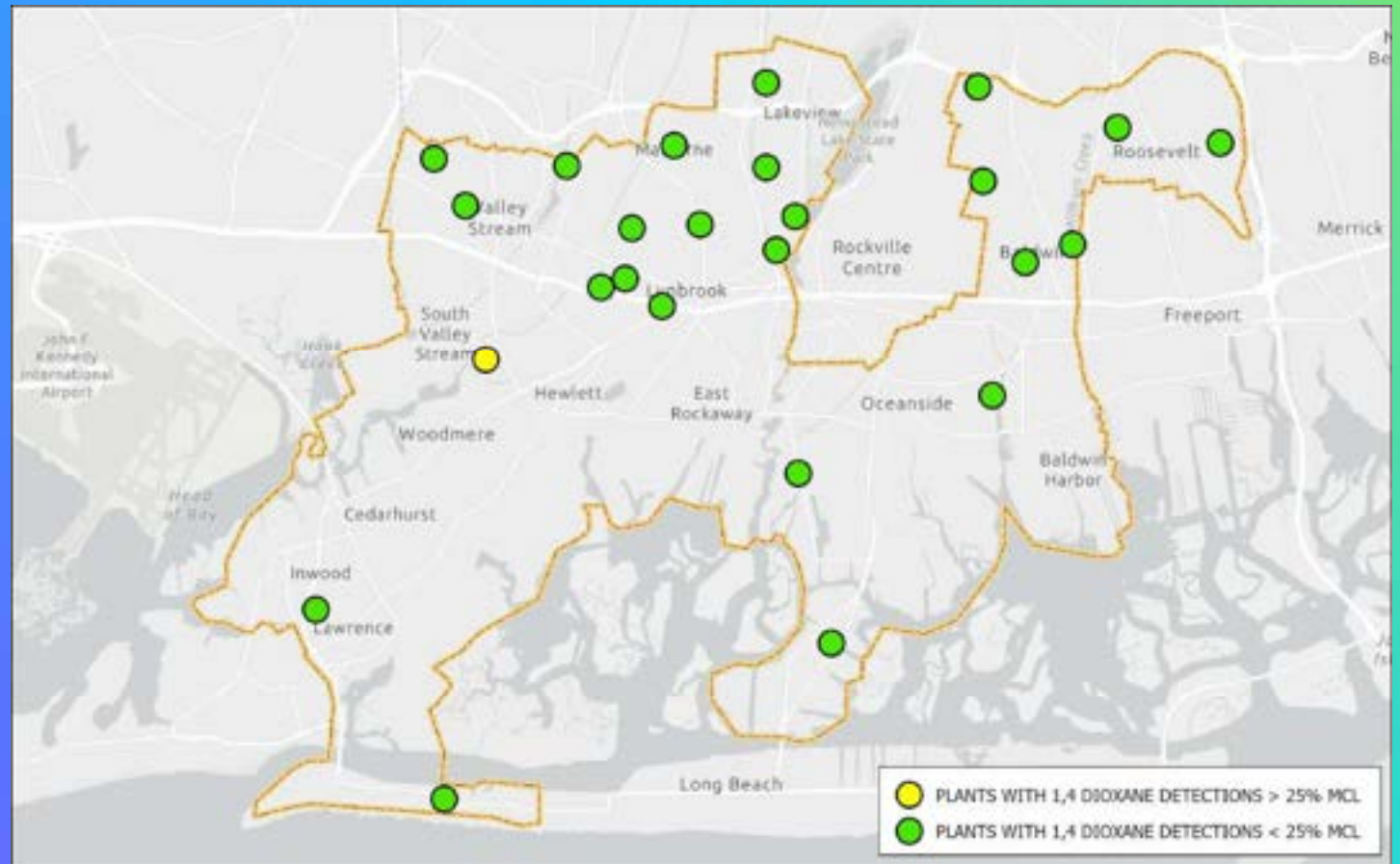


# PFOA/PFOS





# 1,4 dioxane

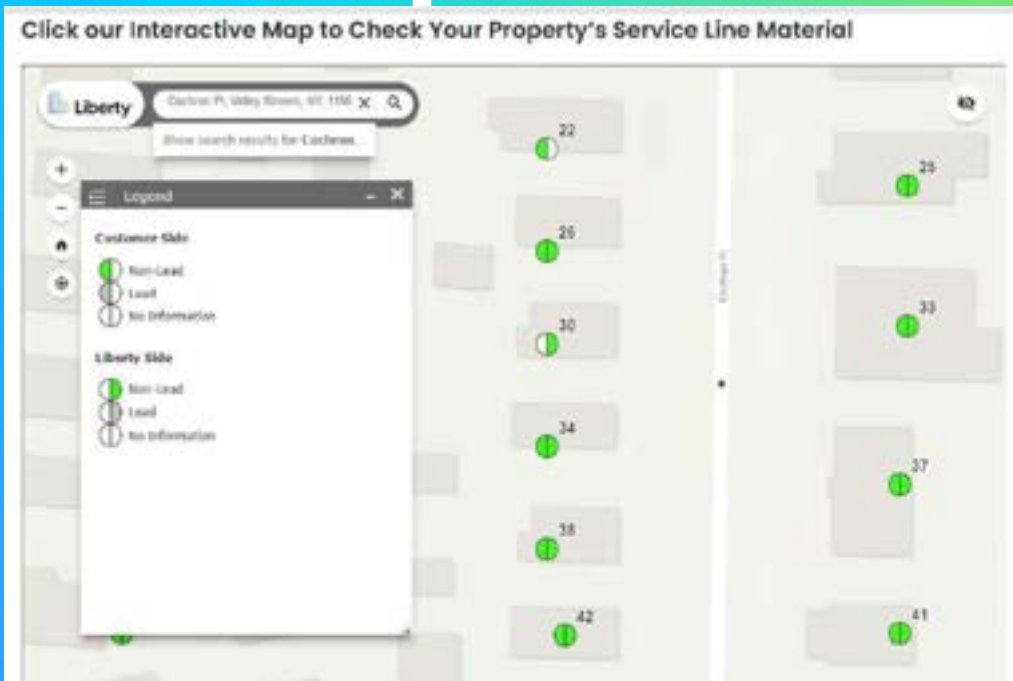
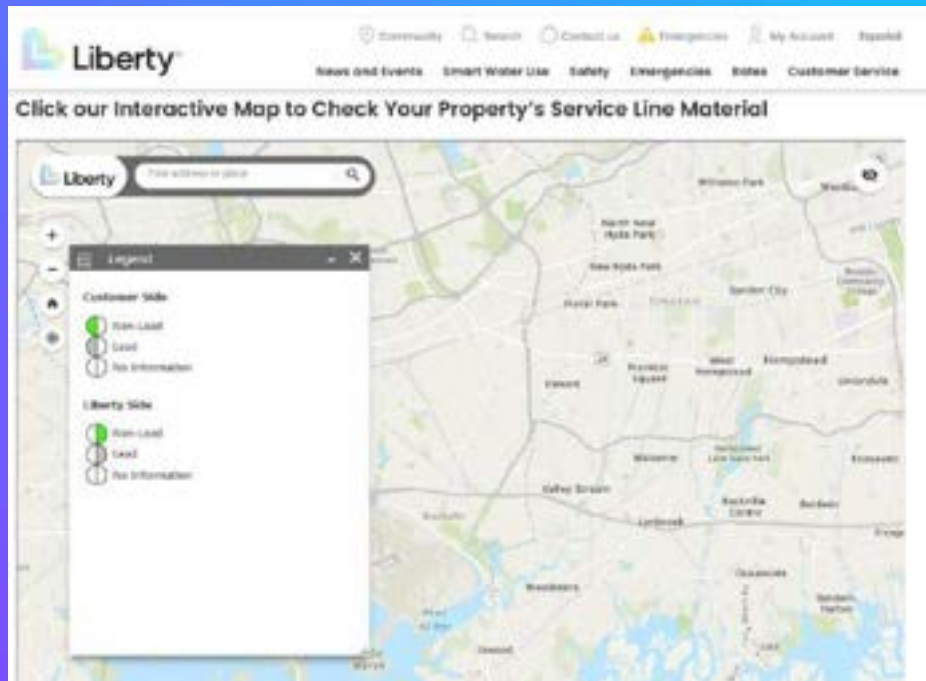


# Water Quality- Hot Topics

- **Lead and Copper Rule Revisions**
  - Overall goal
  - Increased sampling/testing
  - Corrosion control program
  - Replacement plan
  
- Report your unknown service line here:



# LCRR interactive map





## Irrigation Guidelines- Lawn Irrigation Causes Excessive Peak Demands and Low Pressure

- Install WaterSense grade smart controllers and spray sprinkler bodies.
- Follow the Nassau County Ordinances
  - Lawn watering between 10 a.m. – 4 p.m. is prohibited
  - Even-numbered addresses and non-numbered homes can water only on even-numbered days; odd-numbered addresses can water only on odd-numbered days.
- Follow Liberty Automatic Systems Zoned Maps Schedule
  - To relieve system strains during the summer peak mornings due to irrigation systems, Liberty is asking you to follow the zoned time schedule.
  - Each zone should not run more than 15 minutes.
  - Remember, a lawn requires just one inch of rain per week for adequate maintenance.



# Conservation Program



- **Customer Rebates**
  - Offering rebates on select irrigation equipment
  - Eligible products include;

Qualifying Product	Rebate Amount
Smart Irrigation Controller	\$50
Drip Irrigation Kit	\$5/kit
Rotating Sprinkler Heads	\$1/nozzle - minimum 10 nozzles, max 50
Rain Barrels	\$20



## A.2617–Access to Water Quality Infrastructure Funding

- **Funding Eligibility Expansion:** The bill proposes amendments to existing laws to allow water utilities regulated by the Public Service Commission such as Liberty to access state financial assistance for water quality infrastructure projects.
- **Public Benefit Requirement:** Projects undertaken by water utilities must demonstrate a clear public purpose and benefit the customers of the water system to qualify for funding.
- Introduced this legislative session by Assemblymember Solages.
- [Stopthehiddentax.org](http://Stopthehiddentax.org)



**Take Action!**





**Thank you**





# Operation SPLASH

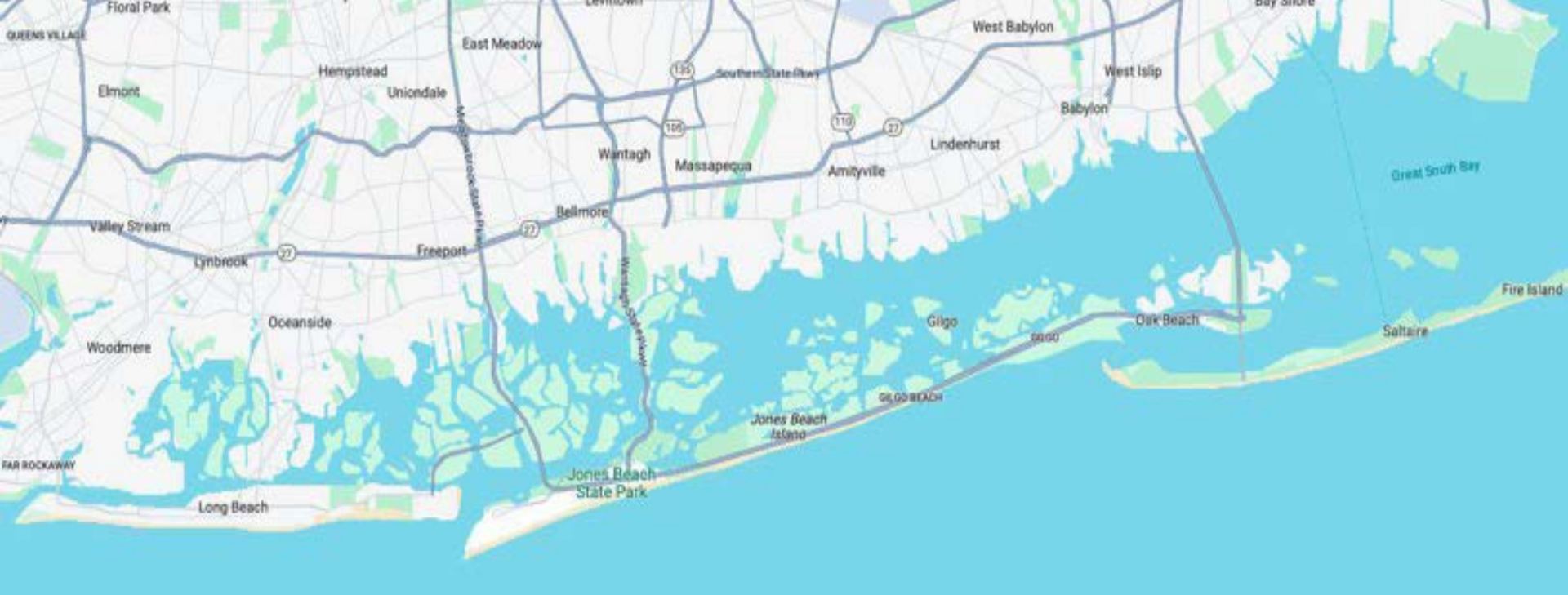
The low-cost solution to waterfront pollution

# Who We Are

- Founded in 1990
- Volunteer-based non-profit environmental organization
- Removed more than 3 million pounds of marine debris
- Focused on preserving the south shore's wildlife and natural habitats







# Cleanup Area

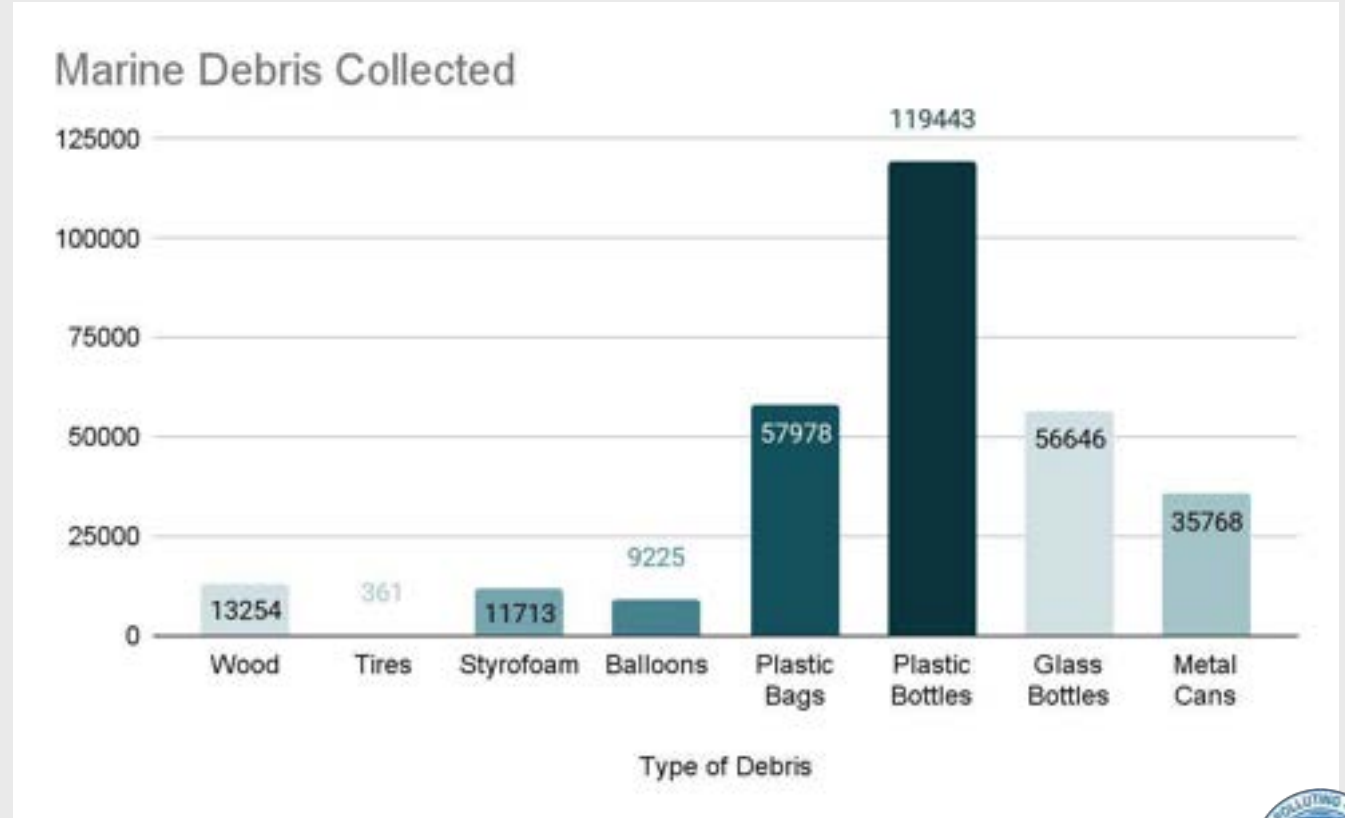
Approximately 32 miles of coastline and over 54,500 acres of waterways, beaches, and salt marshes along Long Island's South Shore.





# 2017-2022 Collection Data

- Number of Trips:  
2,561
- Trip Hours: 7,618.8
- Volunteer Hours:  
31,985.6
- **Total Weight:  
699,901  
pounds**



# How Much is That?

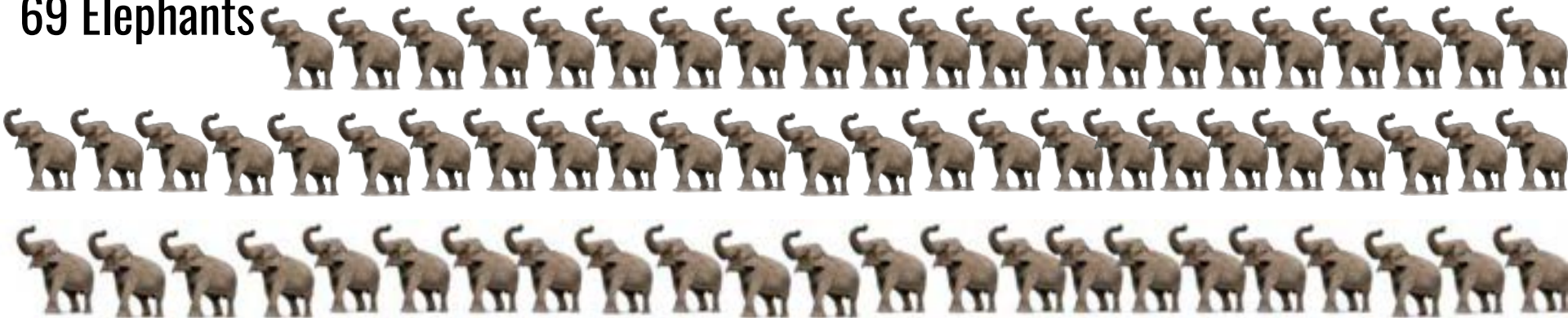


1.5 Statue of Liberty



8.75 Firetrucks

69 Elephants



**What Did 2024 Look  
Like?**



APRIL



MAY



MAY





MAY







JUNE





JUNE



JUNE



JULY





JULY





**AUGUST**





**AUGUST**





AUGUST

SEPTEMBER





# SEPTEMBER



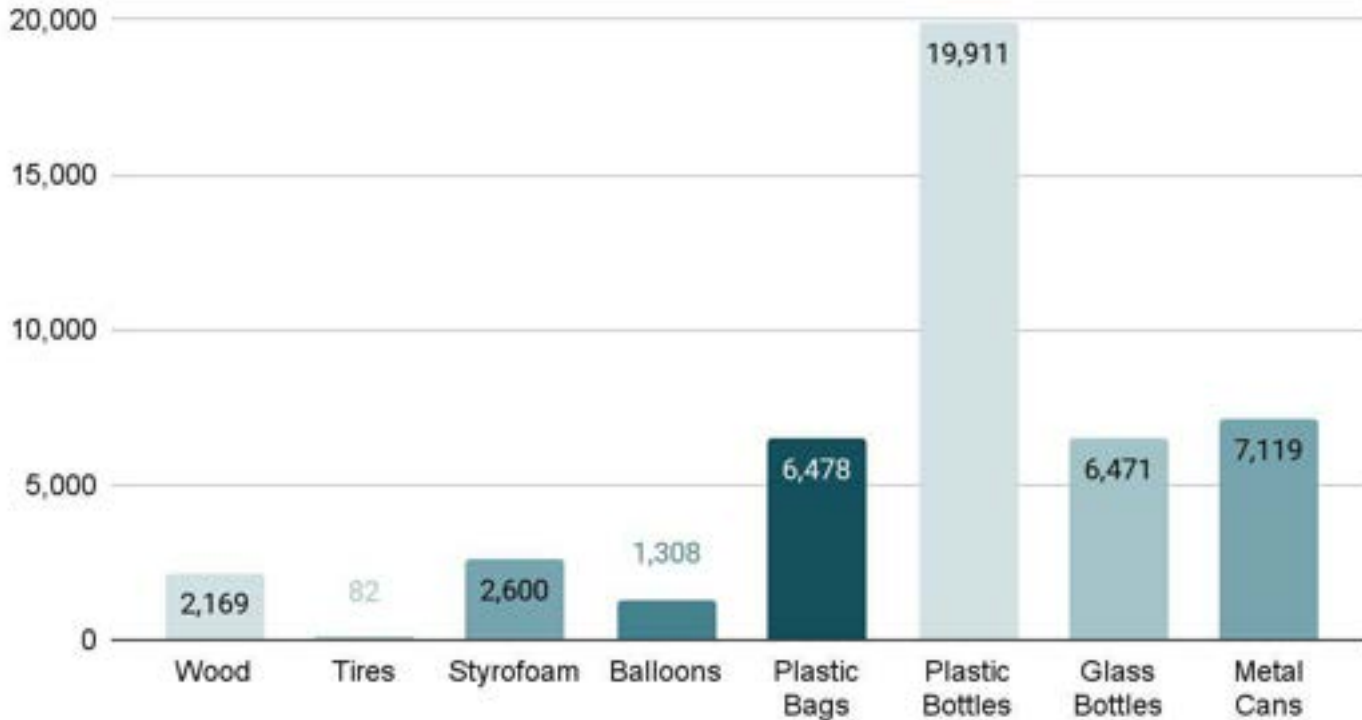




OCTOBER

# 2024 Collection Data

## Marine Debris Collected





# Origin Stories





# Impacts On Wildlife



# PLASTICS





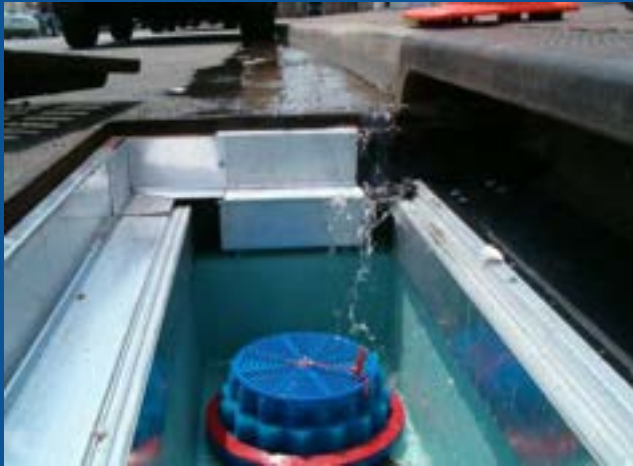
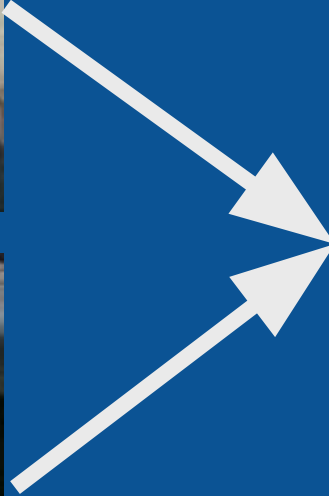


# SOLUTIONS





# Catch Basin Inserts





# Education













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# QUESTIONS?



Please write your question **clearly** on the provided index card. Raise your hand and one of our volunteers will collect your card to be read.



# THANK YOU FOR JOINING US!



If you have any further questions or concerns, please don't hesitate to reach out to us.



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