

Protecting Long Island Water Resources from Emerging Contaminants

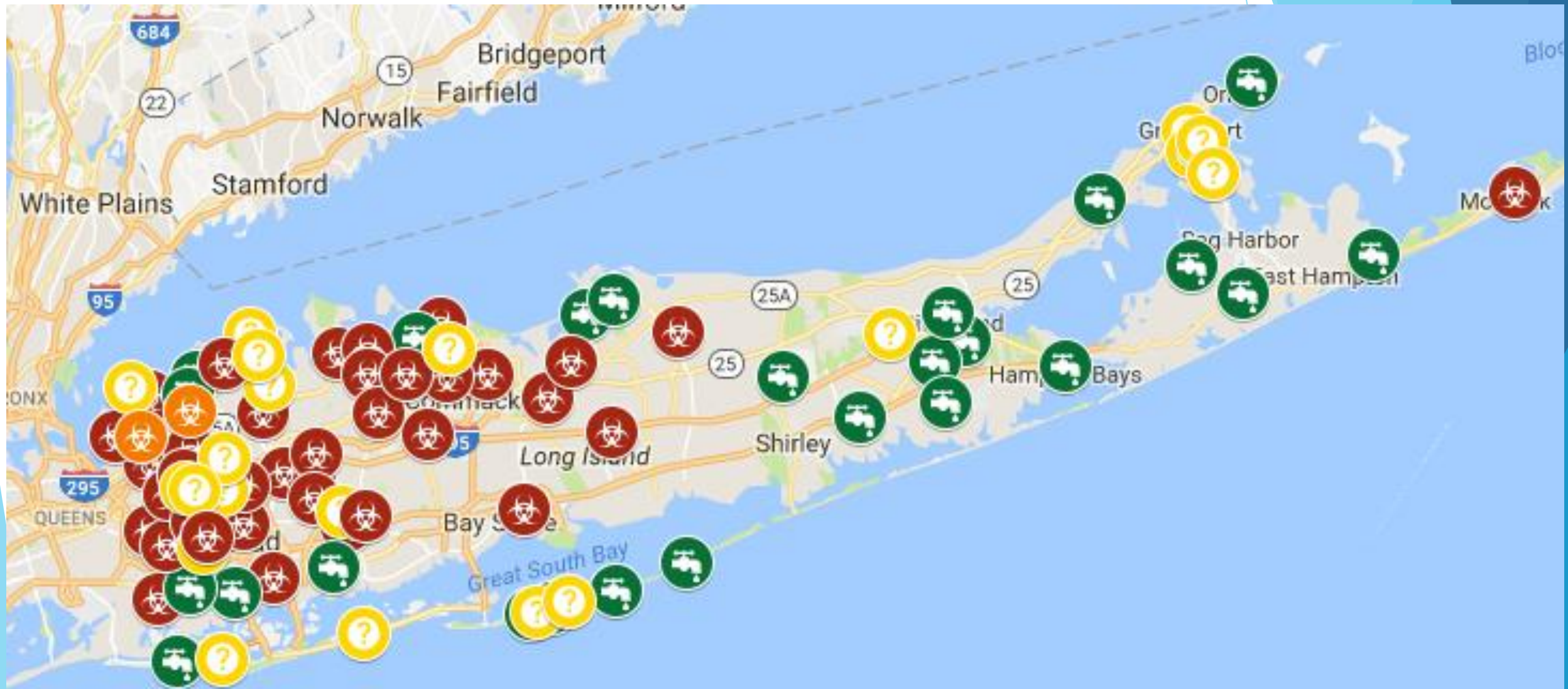


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The Problem: 1,4-Dioxane

- ▶ 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.
- ▶ 1, Dioxane is linked to tumors of the liver, kidneys, and nasal cavity.

CCE's Map of 1,4-Dioxane Detections on Long Island (2017)



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. Meyers
- ▶ Nature's Promise
- ▶ Seventh Generation
- ▶ Shea Moisture
- ▶ Suavitel
- ▶ Downy

Products with No Detectable Levels of 1,4-Dioxane

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



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



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





Statewide Ban on 1,4 Dioxane

CCE worked with Senator Kaminsky & Assemblyman Englebright to pass a bill to ban 1,4-dioxane in products in NY.

The bill was fully implemented in
Jan 2024.

Exemption of Products



In 2019, the Legislature amended ECL Articles 35 and 37 to establish maximum concentrations of 1,4-dioxane in household cleansing, personal care and cosmetic products as of December 31, 2022.

The law includes provisions to allow a manufacturer to apply for a one-year waiver from compliance, up to two times, based on the submission of proof to DEC that the manufacturer has taken steps to reduce the presence of 1,4-dioxane in their product or products and is still unable to comply with the statutory limits.



- ▶ ENSUEÑO LIQUID DETERGENT : 129,000ppb
- ▶ PINOL DETERGENT : 129,000ppb
- ▶ Reclaim Hard Floor Cleaner and Maintainer: 99,000 ppb
- ▶ CLORALEN Toilet Bowl Cleaner : 75,000ppb

**2023:
1,500+ Products
Exempted!**

Laundry Detergents?

Despite having high levels of 1,4 dioxane in our independent testing, there is 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

- ▶ This year the state law was fully implemented requiring 1,000 ppb or less for products. Last year, 1500+ products were exempted. This year only 26 received waivers.
- ▶ 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



Find the report here
or at
citizenscampaign.org



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PROTECTING NEW YORK COMMUNITIES FROM 1,4-DIOXANE

*New York State 1,4-Dioxane Legislation
Creates Industry-Wide Change*

1,4-Dioxane is an emerging contaminant of concern found in drinking water throughout the nation. The EPA has established that 1,4-dioxane is likely to be carcinogenic to humans. **Exposure to this chemical is linked to tumors of the liver, gallbladder, nasal cavity, lung, skin, and breast.**



1,4-Dioxane in Drinking Water

- ▶ NY has a drinking water standard of 1 ppb for 1,4-dioxane and many water districts have installed advanced treatment technologies.
- ▶ As of now, some water districts still have deferrals from the state allowing them to be over the 1ppb limit:
 - ▶ Town of Hempstead
 - ▶ Village of Hempstead
 - ▶ Jericho Water District
 - ▶ Liberty Utilities Corporation's Merrick District



Yale 1,4 dioxane Study

- ▶ The Yale Superfund Research Center is in the initial phase of further investigating 1,4 dioxane exposure on human health in Long Island communities through studies of exposure and health
- ▶ You can Participate! It requires drinking water and blood sample
- ▶ Ultimately the goal is to enhance understanding of 1,4 dioxane

PFAS Contamination on Long Island

- ▶ Firefighting foams*
- ▶ Fireproof coatings on carpets and furniture.
- ▶ Non-stick coatings on cookware.
- ▶ Waterproofing treatments on clothing.
- ▶ Food packaging* and plastics.

*PFAS banned in firefighting foams, carpets, apparel, & food packaging in NY.

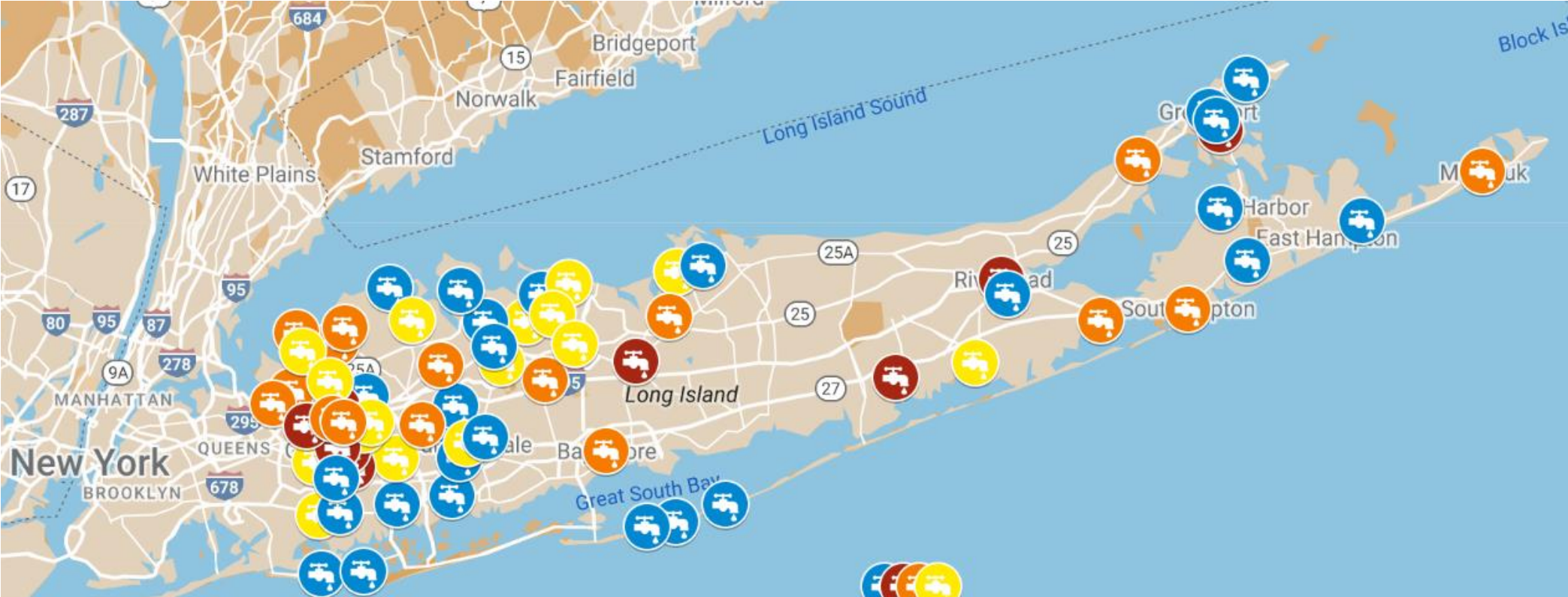
New York State officials estimate that 23% of public water wells in New York need treatment for PFOA and PFOS based on 10 ppt drinking water standard.



Long Island PFAS Superfund Sites

- ▶ Gabreski Airport, Westhampton
- ▶ Hampton Bays Fire Station
- ▶ Firematics Fire Training Facility in Yaphank, NY
- ▶ East Hampton Airport
- ▶ Navy/Grumman Plume in Calverton
- ▶ Brookhaven National Laboratory
- ▶ Rowe Industries Groundwater Contamination in Sag Harbor
- ▶ MacArthur Airport

CCE's Map of PFAS Contamination on Long Island 2022



- PFOA/PFOS below 10ppt
- PFOA/PFOS above 10ppt
- PFAS cumulative > 20ppt
- PFAS6 chemicals > 2ppt

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.

EPA Guidelines

In 2022 EPA releases new drinking water health advisories

- .004 ppt for PFOA
- .02 ppt for PFOS

This means there is no safe level of PFAS.

EPA's health advisory was not an enforceable standard - but provides guidance for the EPA and states to create drinking water standards.

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 additional 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.



Banning PFAS in Products

- ▶ NY considering legislation A.3556C/S.5648C that bans the sale of PFAS in a host of everyday products
 - ▶ textile articles, rugs, fabric treatments, cookware, ski waxes, architectural paints, children's products, anti-fogging sprays and wipes, dental floss, and cleaning products, beginning in 2026.
- ▶ Would restrict products in common use for which there are ample alternatives (including restrictions already in other states or countries).

As we make important progress to remove PFAS from our drinking water, it does not make sense to continue using more PFAS and allow more contamination to occur!



Clean Water Funding

- ▶ Since 2017, New York has provided \$5 billion through the Clean Water Infrastructure Act, which has provided significant results for New York's environment and economy.
- ▶ Funding for projects reducing nitrogen from sewage (including sewer upgrades, expansions, septic change-outs) and upgrading drinking water systems (installing treatment for PFAS and 1,4-dioxane).
- ▶ Each year, \$500 million included in budget.
- ▶ This year, Governor only included \$250 million in her Executive Budget Proposal.



Victory! Clean Water Funding Restored

NY Clean Water Coalition - enviro groups, labor, drinking water suppliers, wastewater professionals and more - lobbied for restored funding the final budget.

NY Senate and Assembly restored the clean water funding in their respective budgets.

Final budget will include \$500 million for clean water infrastructure!