SUFFOLK COUNTY
SCWA
WATER AUTHORITY

WaterTalk

Your Questions,
Our Answers About Vital
Drinking Water Topics

SUFFOLK COUNTY
SCWA
WATER AUTHORITY

WaterTalk

Jeff Szabo

-SCWA Chief Executive Officer

Why WaterTalk?

• There's a lot of information out there about drinking water quality. It can be confusing, so we want to make sure you're getting accurate information.

• So a few years ago we created this forum which we hold in communities all throughout our service territory, from Melville to Montauk.

• Tonight, you'll hear from on-staff experts about topics vital to the protection and preservation of our drinking water supply.

• For instance, you'll hear about the steps our laboratory takes to make sure your drinking water is always safe.

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Why WaterTalk?

- We'll talk about the local infrastructure that provides your water.

- We'll talk about a program we developed called WaterTraq that lets you monitor water quality from home.

- And we'll talk about what we're doing to encourage the judicious use of our water resources.

- Most importantly, we're here to take your questions.

SUFFOLK COUNTY SCWA WATER AUTHORITY

What SCWA is…

- The Suffolk County Water Authority is an **independent public-benefit corporation** operating under the Public Authorities Law of the State of New York.

- SCWA serves approximately **1.2 million** Suffolk County residents.

- Beginning operations in 1951, SCWA operates without taxing power on **a not-for-profit** basis.

- SCWA is one of the largest **groundwater suppliers** in the country.

What SCWA is…

- SCWA has the **lowest water rates** in the country when factoring cost of living *(Goldman Sachs, 2018)*.

- SCWA's **two AAA Bond Ratings** *(Fitch and S&P)* put us in the top 1 percentile of the nation's 20,000 water suppliers for fiscal responsibility.

What SCWA is not…

- SCWA is not a branch of Suffolk County Government.

- SCWA does not create or enforce drinking water standards. This is the responsibility of the U.S. Environmental Protection Agency (EPA) and New York State Department of Health (DOH).

SCWA Statistics

- 586 Active Wells at 237 Well Fields
- 64 Storage Tanks w/68 Million Gallons (MG) of Storage.
- Avg Daily Pumpage: 210 MG.
- Avg Peak Pumpage: 470 MG.

Water Quality Treatment Charge

- Beginning January 1st, 2020 all SCWA quarterly bills will include a $20 Water Quality Treatment Charge.

- The Water Quality Treatment Charge was instituted by the SCWA Board to offset the cost to install new water treatment systems throughout our distribution system.

- These new treatment systems are necessary in order to comply with forthcoming regulations from the New York State Department of Health (NYS DOH) for the emerging contaminants 1,4-dioxane, PFOS & PFOA.

Why $20 per quarter?

- In order to ensure that all water served by SCWA meets new standards for 1,4-dioxane, PFOS & PFOA, over 70 new treatment systems must be installed.

- Designing, procuring, constructing, installing, and testing these new treatment systems will cost SCWA over $177 million.

- $20 per quarter is the lowest amount SCWA can charge customers and still raise the necessary funds for treatment systems.

- SCWA is an independent public-benefit corporation operating under the authority of the Public Authorities Law of the State of New York, meaning SCWA operates without taxing power on a not-for-profit basis. Nearly all our revenue must be collected from customer water bills.

SUFFOLK COUNTY SCWA WATER AUTHORITY

What is SCWA doing to minimize the impact to ratepayers?

- SCWA did not put these contaminants in our water supply, but we are required by law to remove/destroy them. SCWA operates on a not-for-profit basis, meaning nearly all our revenue must be collected from customer water bills.

- SCWA has sued the manufacturers responsible for polluting Long Island's groundwater, seeking to recover the costs of treating the affected water.

- Unfortunately, resolution of these cases may take year, and treatment systems must be installed as soon as possible.

- SCWA has also applied for 19 NYS grants in order to reduce the costs of these projects to our customers. To date, we've been awarded over $13.3 million, with another $4.5 million in outstanding applications.

- Though we can not wait for the resolution of these lawsuits to begin work, SCWA customers will see some form of financial relief should the courts eventually rule in our favor.

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Does this mean that my water is contaminated right now? Is my water currently safe to drink?

- When regulators set standards for compounds such as 1,4-dioxane, PFOS or PFOA, they are setting standards based on **lifetime exposure levels, NOT acute health risks** that would be a concern today.

- These types of regulations are based on a consumption rate of two liters of water per day over a 70-year period.

- As Governor Cuomo mentioned in his statement on the subject in 2019: “We're proposing the most protective levels in the nation for three emerging contaminants to ensure we are regularly testing and fixing water systems **before they ever rise to a public health risk** in any part of the state.”

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Why is the Water Quality Treatment Charge a flat fee, and not based on a customer's water consumption?

- The decision was made by the SCWA Board to institute a flat fee so that the Authority has a predictable and reliable revenue stream for these projects.

- Using a fee relative to customer usage means there would be no way to predict what would ultimately be collected.

- As the fee pertains to water quality and not water quantity, we believe this affects all our customers equally.

- Customers who use water in excess of 78,540 gallons a quarter are already billed at a higher rate for excess usage.

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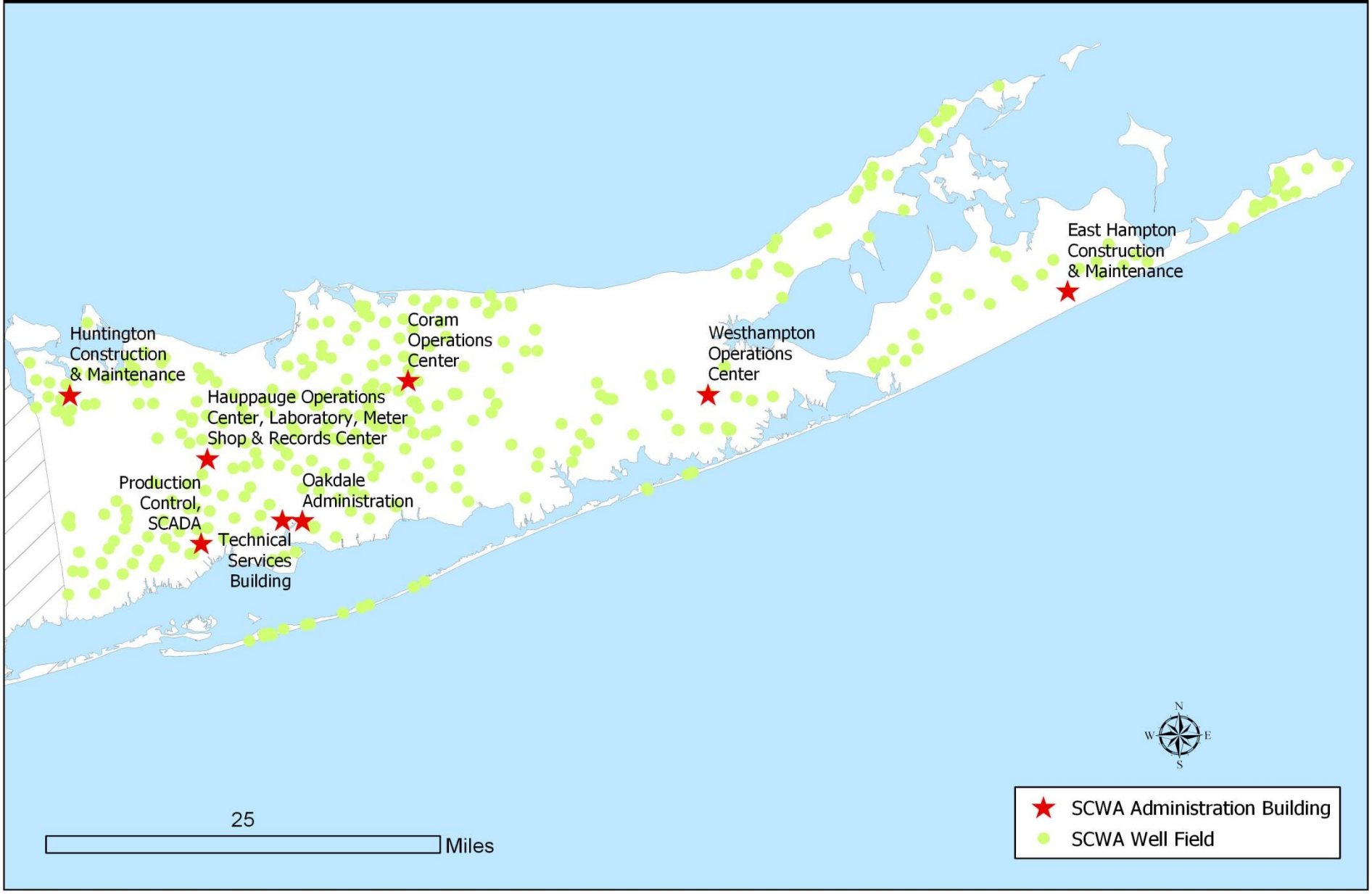
WaterTalk

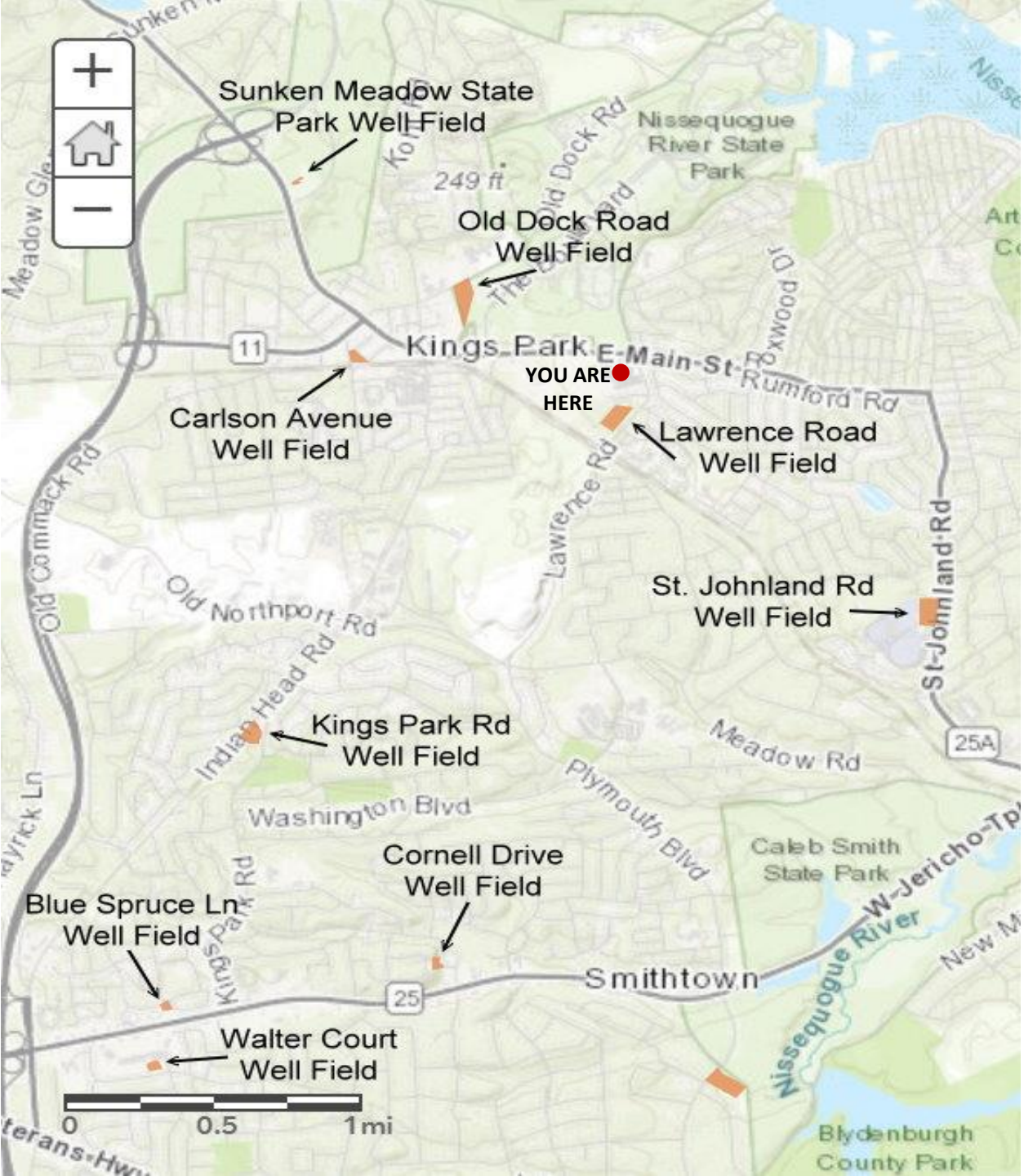
Water Infrastructure

Joseph Pokorny, P.E.

-Deputy CEO for Operations

SCWA Service Territory





Kings Park Area Wells

- Old Dock Rd
- Carlson Ave
- Lawrence Rd
- St. Johnland Rd
- Kings Park Rd
- Cornell Dr
- Sunken Meadow
- Blue Spruce Ln
- Walter Ct

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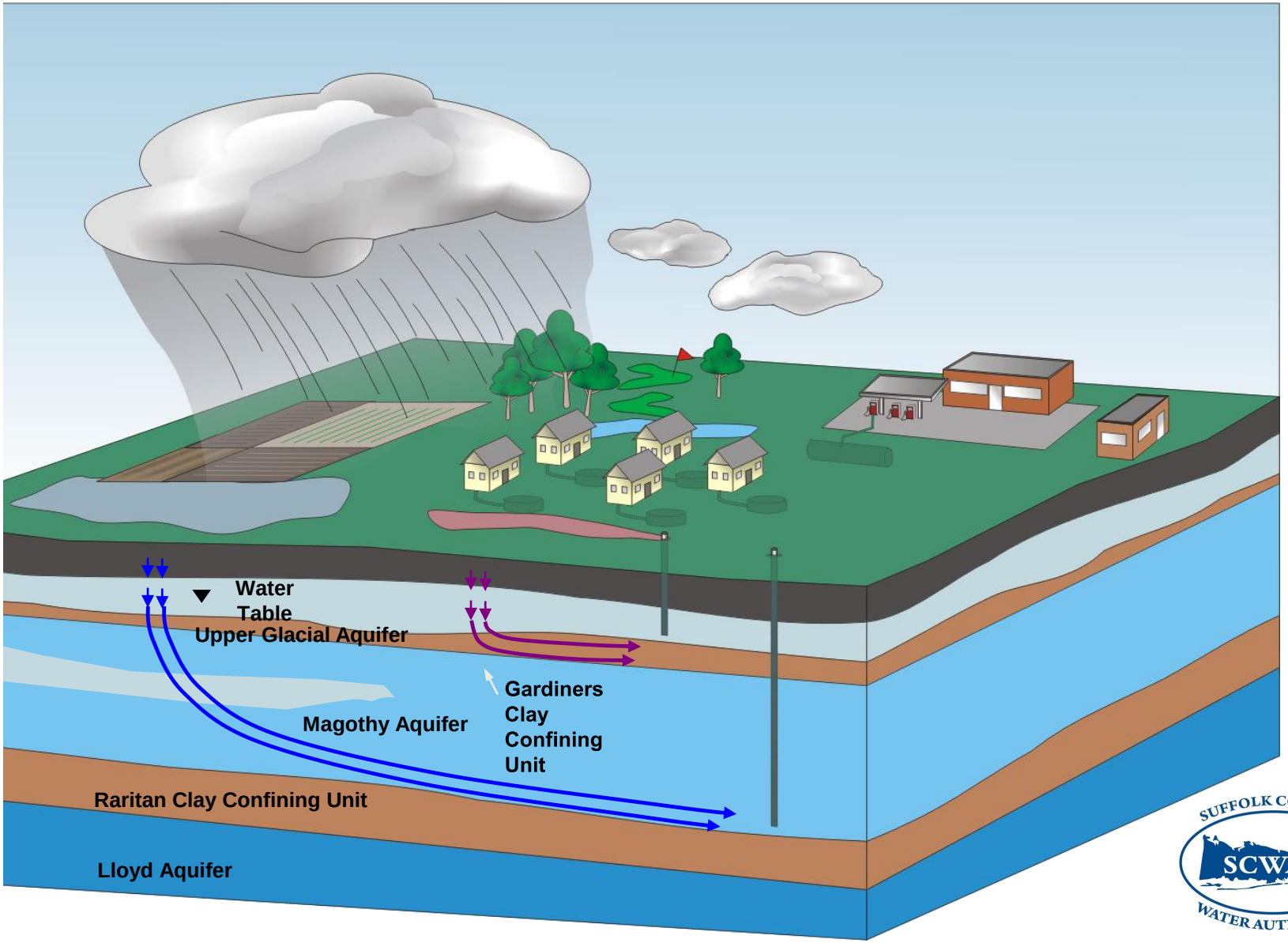
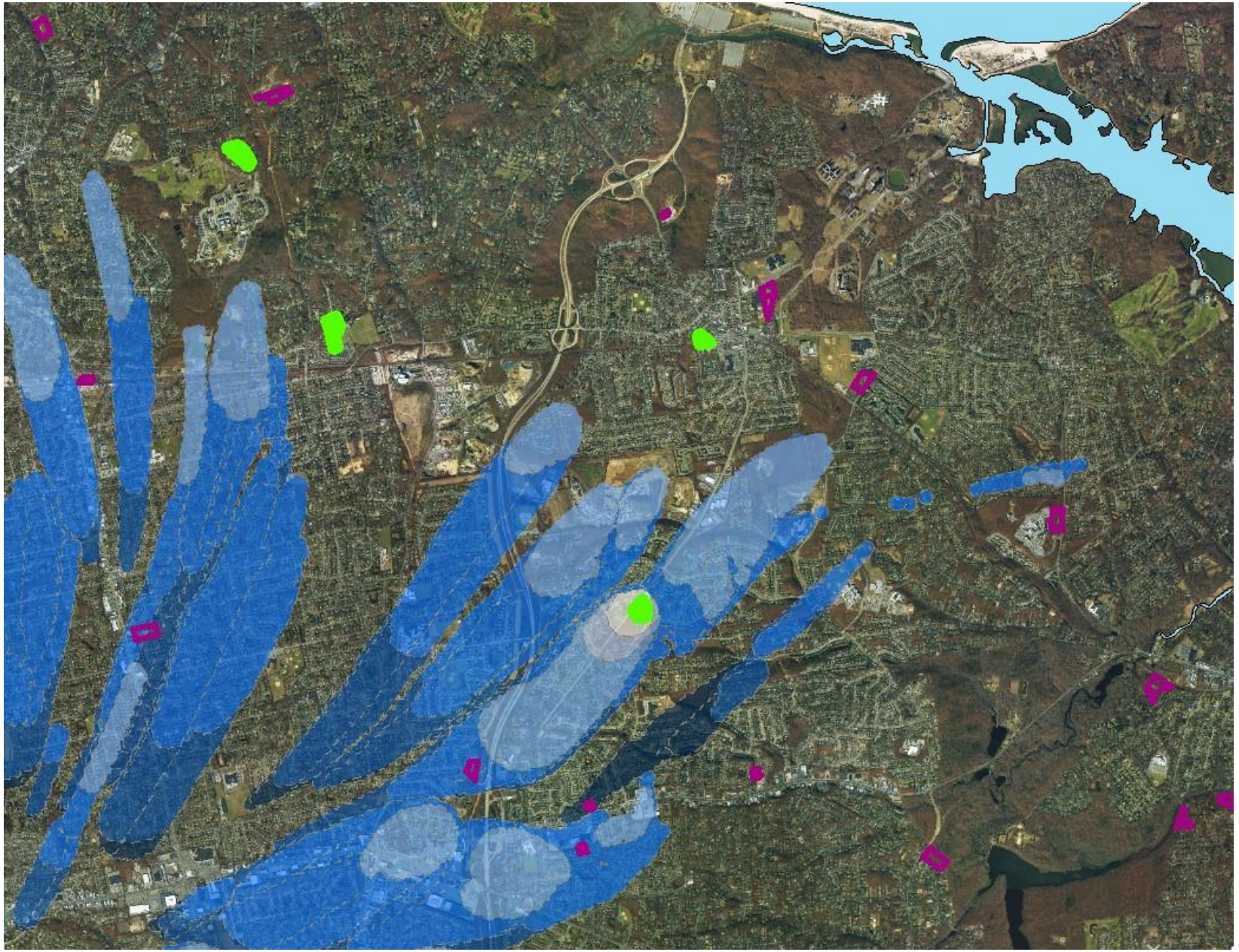
Source Water – Where Does Our Water Come From?



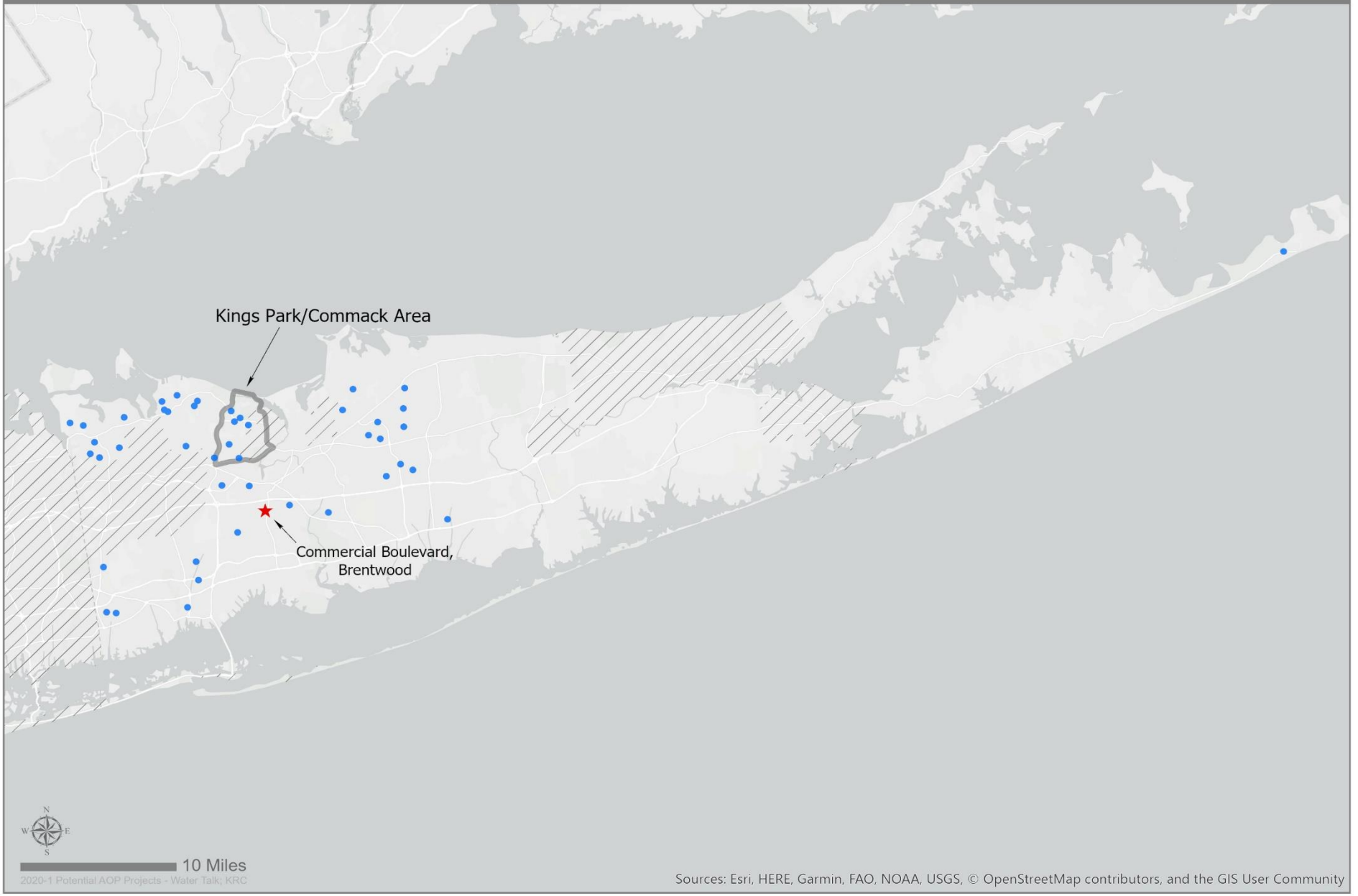
SUFFOLK COUNTY SCWA WATER AUTHORITY

Kings Park Area Well Source Water



Wells Above 1/2 the Proposed MCL With No Treatment for 1,4 Dioxane

January 23, 2020



Emerging Contaminant Wells Current Status 1/22/2020
All Wells > 1/2 Proposed MCL W/ No Treatment

1,4 Dioxane **Proposed MCL = 1.0 ppb** **Sorted By 1,4 Dioxane Level**

Station	Well	Hamlet	Pressure Zone	Recent Well Level (ppb)	Current Well Status	Treatment in Service	Recent Avg Distribution System Level (ppb)	EFC Project Number	Total Est Project Costs	EFC Grant Amount
Smith St Ef	1	East Farmingdale	60	22.30	O/S		0.09	18404	$1,242,355.00	$745,413.00
Commercial Blvd	3	Central Islip	12	5.72	I/S	Yes	0.12			
Carlson Ave	6	Kings Park	11	3.27	O/S		0.33			
Gazza Blvd	2	East Farmingdale	60	3.05	O/S		0.09			
Flowerhill Rd	1	Halesite	6	3.04	O/S		0.68	18738	$1,500,000.00	$900,000.00
Lawrence Rd	3	Kings Park	11	2.70	O/S		0.33			
Great Neck Rd	1	North Amityville	1	2.66	O/S		0.15			
Eastwood Blvd	2A	Centereach	12	2.11	O/S		0.12			
Flowerhill Rd	2	Halesite	6	2.04	O/S		0.68	18738	$1,500,000.00	$900,000.00
Douglas Ave	1	Northport	9	1.90	O/S		0.92	18736	$1,500,000.00	$900,000.00
Broadway	1A	Huntington Station	6	1.86	O/S		0.68	18743	$1,500,000.00	$900,000.00
Falcon Dr	2B	Hauppauge	12	1.83	O/S		0.12	18725	$1,500,000.00	$900,000.00
Carlson Ave	5	Kings Park	11	1.79	O/S		0.33			
Peconic St	1	Lakeland	12	1.79	O/S		0.12			
McKay Rd	1	Huntington Station	7	1.60	O/S		0.32	18741	$1,500,000.00	$900,000.00
Barton Ave	2A	North Patchogue	1	1.55	O/S		0.15			
Falcon Dr	2A	Hauppauge	12	1.40	O/S		0.12	18725	$1,500,000.00	$900,000.00
Hollywood Pl	1	Huntington	5	1.35	I/S		0.90	18740	$1,500,000.00	$900,000.00
Montauk St Blvd	1A	Montauk	26	1.22	O/S		0.11			
Harvest Ln	1A	North Babylon	1	1.20	O/S		0.15			
South Spur	2	East Northport	10	1.20	O/S		0.56			
College Rd	3	Farmingville	15	1.18	Blended		0.23			
Commercial Blvd	2	Central Islip	12	1.08	Blended		0.12			
Middleville	2	Middleville	9	1.08	I/S		0.92	18724	$1,500,000.00	$900,000.00
Middleville	1	Middleville	9	1.07	O/S		0.92	18724	$1,500,000.00	$900,000.00
Old Dock Rd	1	Kings Park	11	1.05	O/S		0.33	18726	$1,500,000.00	$900,000.00
Lawrence Rd	4	Kings Park	11	1.05	Blended		0.33			
Wayne Ct	1	Fort Salonga	9	1.04	I/S		0.92			
Church St NPT	1	Northport	10	1.04	Blended		0.56			
Oxhead Rd	2A	Stony Brook	15	1.02	O/S		0.23			
Jayne Blvd	2	Port Jefferson Station	15	1.01	O/S		0.23			
Waterside Rd	2	Northport	9	0.97	O/S		0.92	18729	$1,500,000.00	$900,000.00
Boyle Rd N	1A	Selden	15	0.96	O/S		0.23			
Church St NPT	2	Northport	10	0.89	Blended		0.56			
Third Ave	3	Brentwood	12	0.89	O/S		0.12			
Falcon Dr	1	Hauppauge	12	0.83	I/S		0.12			

Emerging Contaminant Wells Current Status
All Wells > 1/2 Proposed MCL W/ No Treatment

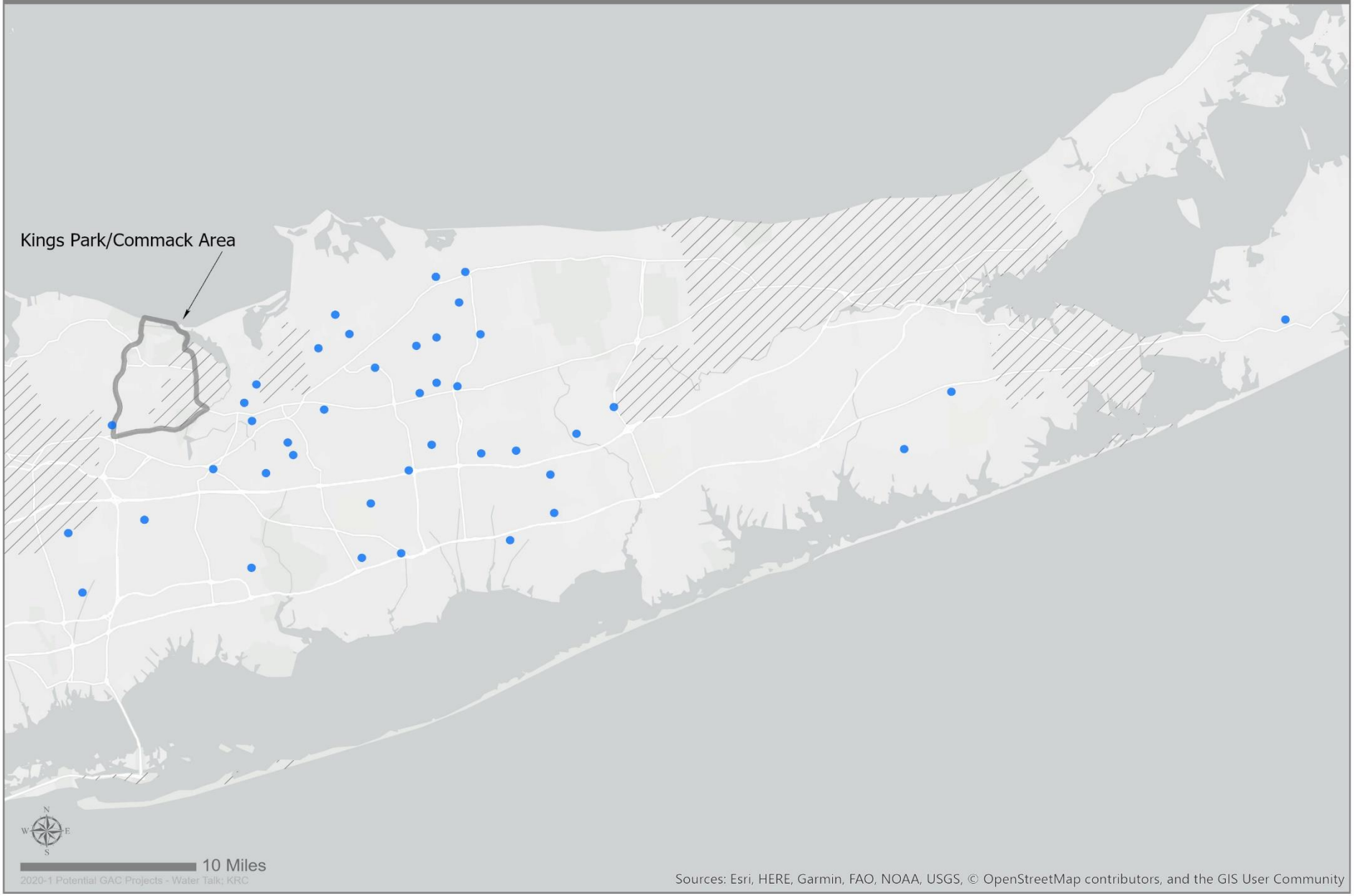
1/22/2020

1,4 Dioxane Proposed MCL = 1.0 ppb Sorted By 1,4 Dioxane Level

Station	Well	Hamlet	Pressure Zone	Recent Well Level (ppb)	Current Well Status	Treatment in Service	Recent Avg Distribution System Level (ppb)	EFC Project Number	Total Est Project Costs	EFC Grant Amount
Cornell Dr	2	Smithtown	11	0.81	I/S		0.33			
Sunken Meadow	1	Sunken Meadow	9	0.80	I/S		0.92			
Mayfair Dr	2	Huntington	6	0.80	I/S		0.68			
Broadway	3	Huntington Station	6	0.79	I/S		0.68			
Peconic St	2	Lakeland	12	0.79	I/S		0.12			
Broadway	2	Huntington Station	6	0.78	I/S		0.68	18743	$1,500,000.00	$900,000.00
Reservoir Ave	1A	Northport	10	0.76	Blended		0.56			
Douglas Ave	2	Northport	9	0.75	I/S		0.92			
N Washington	1	Centereach	15	0.74	I/S		0.23			
Woodchck Hllw	1A	Huntington	6	0.74	I/S		0.68			
South Spur	1	East Northport	10	0.71	O/S		0.56			
Albany Ave	6	North Amityville	1	0.71	O/S		0.15			
Jayne Blvd	3	Port Jefferson Station	15	0.69	Blended		0.23			
Ruth Blvd	1	Commack	10	0.69	O/S		0.56			
Lawrence Rd	1A	Kings Park	11	0.68	I/S		0.33			
South Spur	3	East Northport	10	0.67	O/S		0.56			
Flowerhill Rd	3	Halesite	6	0.66	I/S		0.68	18738	$1,500,000.00	$900,000.00
Sunken Meadow	2	Sunken Meadow	9	0.60	I/S		0.92			
Reservoir Ave	2	Northport	10	0.60	Blended		0.56			
Hawkins Rd	2	Centereach	15	0.60	I/S		0.23			
Brook Ave	4	North Babylon	1	0.60	O/S		0.15			
Jennings Rd	3	Lloyd Harbor	6	0.59	I/S		0.68			
Ruth Blvd	3	Commack	10	0.57	I/S		0.56			
Oval Dr	4	Central Islip	12	0.55	Blended		0.12			
Wicks Rd	1	Commack	11	0.54	I/S		0.33			
Kings Park Rd	2A	Kings Park	11	0.53	I/S		0.33			
Horseblock Rd	1	Farmingville	15	0.50	Blended		0.23			
Boyle Rd PJ	3	Terryville	15	0.50	Blended		0.23			
Jennings Rd	1	Lloyd Harbor	6	0.49	I/S		0.68			

Wells Above 1/2 the Proposed MCL With No Treatment for PFOA/PFOS

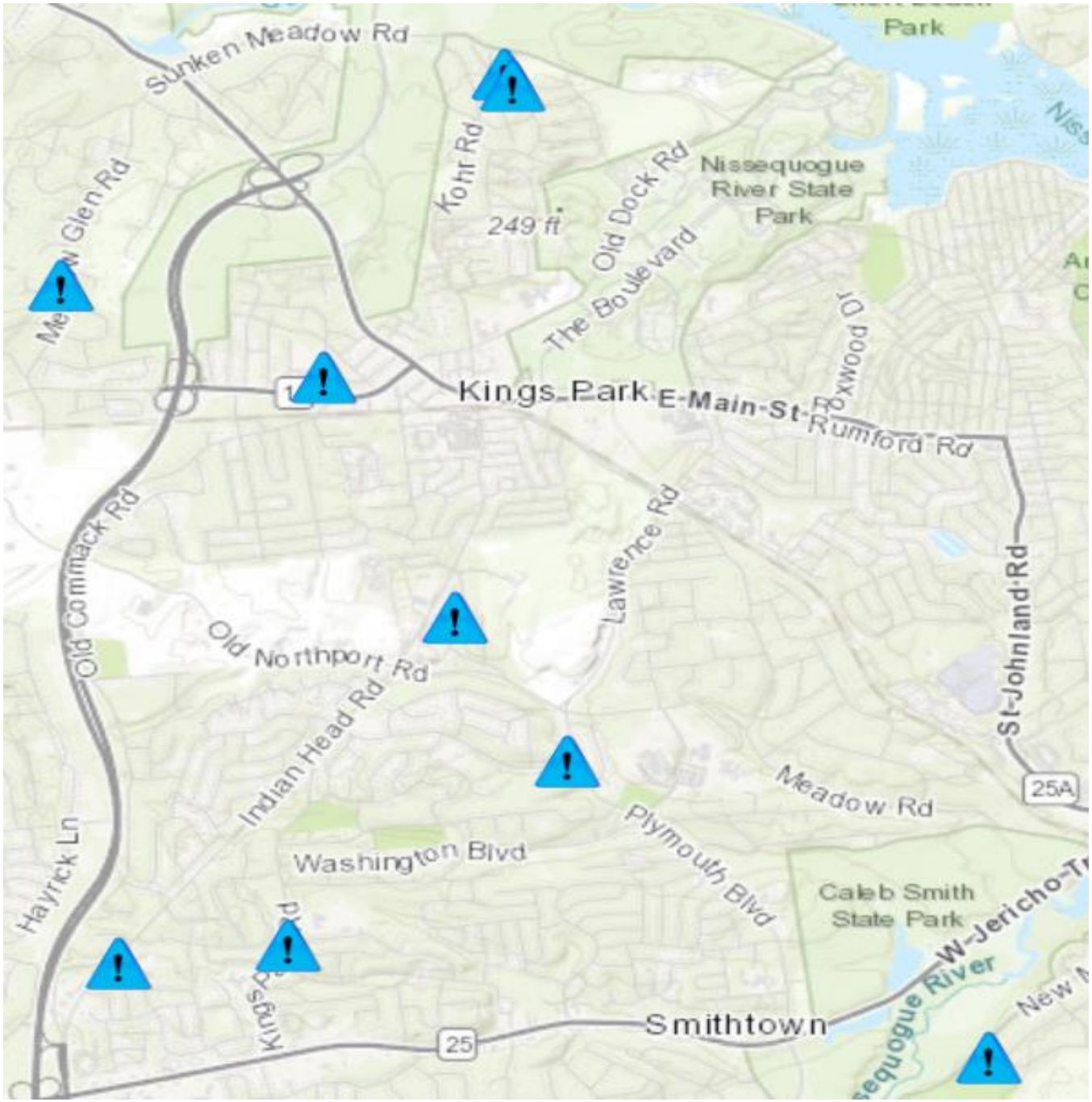
January 23, 2020



Emerging Contaminant Wells Current Status **1/22/2020**
All Wells > 1/2 Proposed MCL

PFOA/PFOS **Proposed MCL = 10 ppt each** **Sorted by PFOS Level**

Station	Well	Hamlet	Zone	Recent level PFOA (ppt)	Recent level PFOS (ppt)	Current Status	Treatment in Service	Recent Avg Distribution System Level (ppt)
Old Country Rd	1A	Speonk	20	3.7	6.1	Blended		<2.0
Boyle Rd South	1	Selden	15	6.0	6.0	I/S		<2.0
Bridgehampton Rd	5A	East Hampton	23	ND	6.0	I/S	Yes	<2.0
Church St Hol	1A	Holbrook	1	8.0	6.0	I/S	Yes	<2.0
Hallock Ave	3	Smithtown	12	ND	6.0	I/S		<2.0
Oak St	2	Setauket	15	4.0	6.0	I/S	Yes	<2.0
Ruth Blvd	2	Commack	10	ND	6.0	I/S		<2.0
Spring Close Hwy	3	Pantigo	23	ND	6.0	I/S	Yes	<2.0
Stem Ln	3	South Setauket	15	2.0	6.0	I/S		<2.0
William Floyd Pkwy	3A	Upton	12	ND	6.0	I/S		<2.0
Crystal Brook Hollow	4	Port Jefferson Station	15	ND	5.0	I/S		<2.0
Dare Rd	1	Selden	15	17.0	5.0	I/S	Yes	<2.0
East Forks Rd	4	North Bay Shore	1	5.0	5.0	I/S	Yes	<2.0
Emjay Blvd	2A	Brentwood	12	ND	5.0	I/S	Yes	<2.0
Flint Ln	2	Selden	15	5.4	5.0	O/S		<2.0
Hurtin Blvd	3	Smithtown	12	4.0	5.0	I/S		<2.0
Kings Park Rd	1A	Kings Park	11	8.0	5.0	I/S	Yes	<2.0
Liberty St	2	Hauppauge	12	6.0	5.0	I/S		<2.0
Mt. Sinai Coram Rd	1	Mt. Sinai	15	ND	5.0	I/S		<2.0
Oval Dr	3	Islandia	12	9.0	5.0	I/S	Yes	<2.0
Oxhead Rd	2A	Stony Brook	15	3.0	5.0	Blended		<2.0
Oxhead Rd	4	Stony Brook	15	2.0	5.0	Blended		<2.0
Station Rd	2	North Bellport	1	5.0	5.0	I/S		<2.0
Strathmore Ct	3	Coram	15	5.0	5.0	I/S		<2.0



Kings Park Area Main Breaks 1/1/19 - Present

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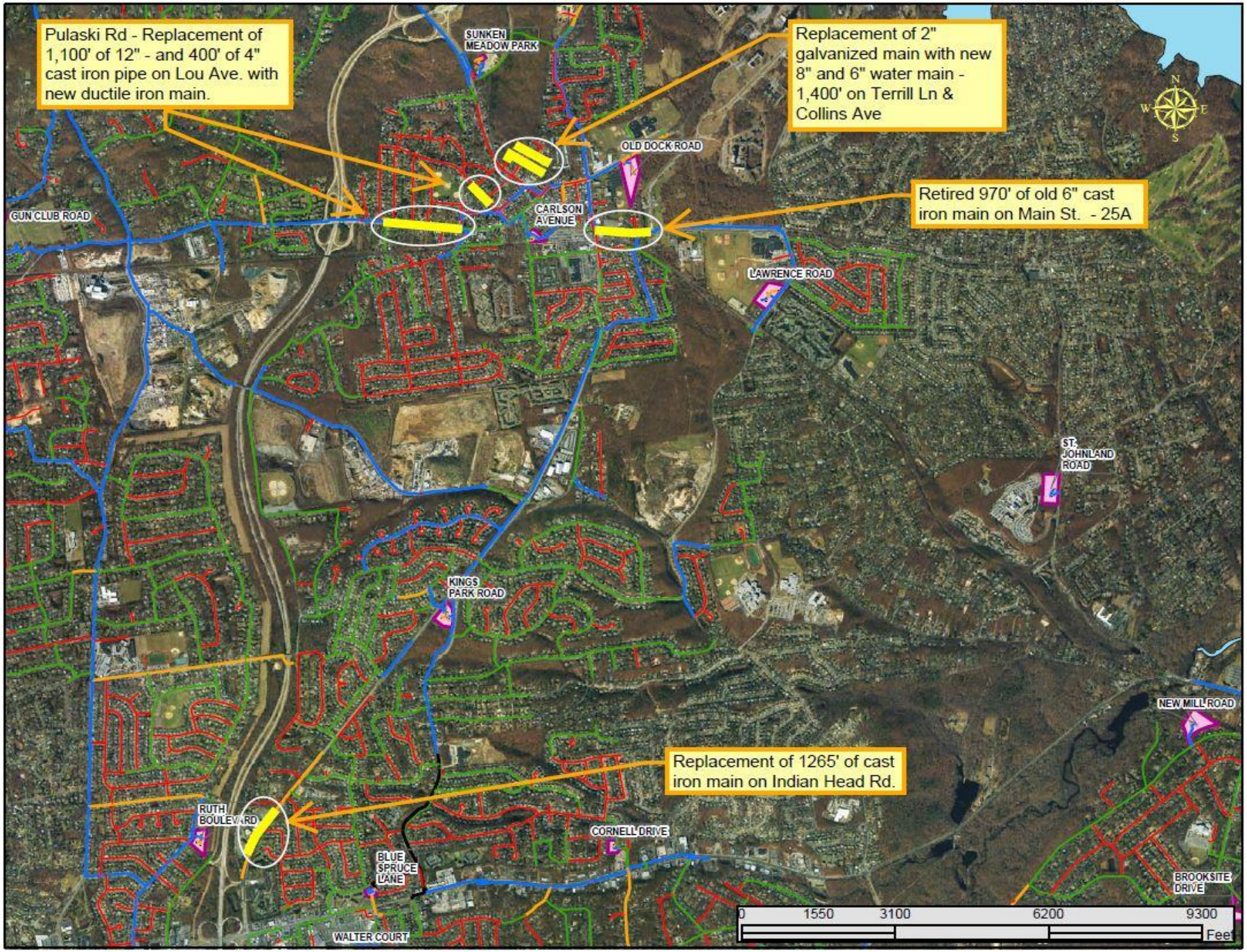
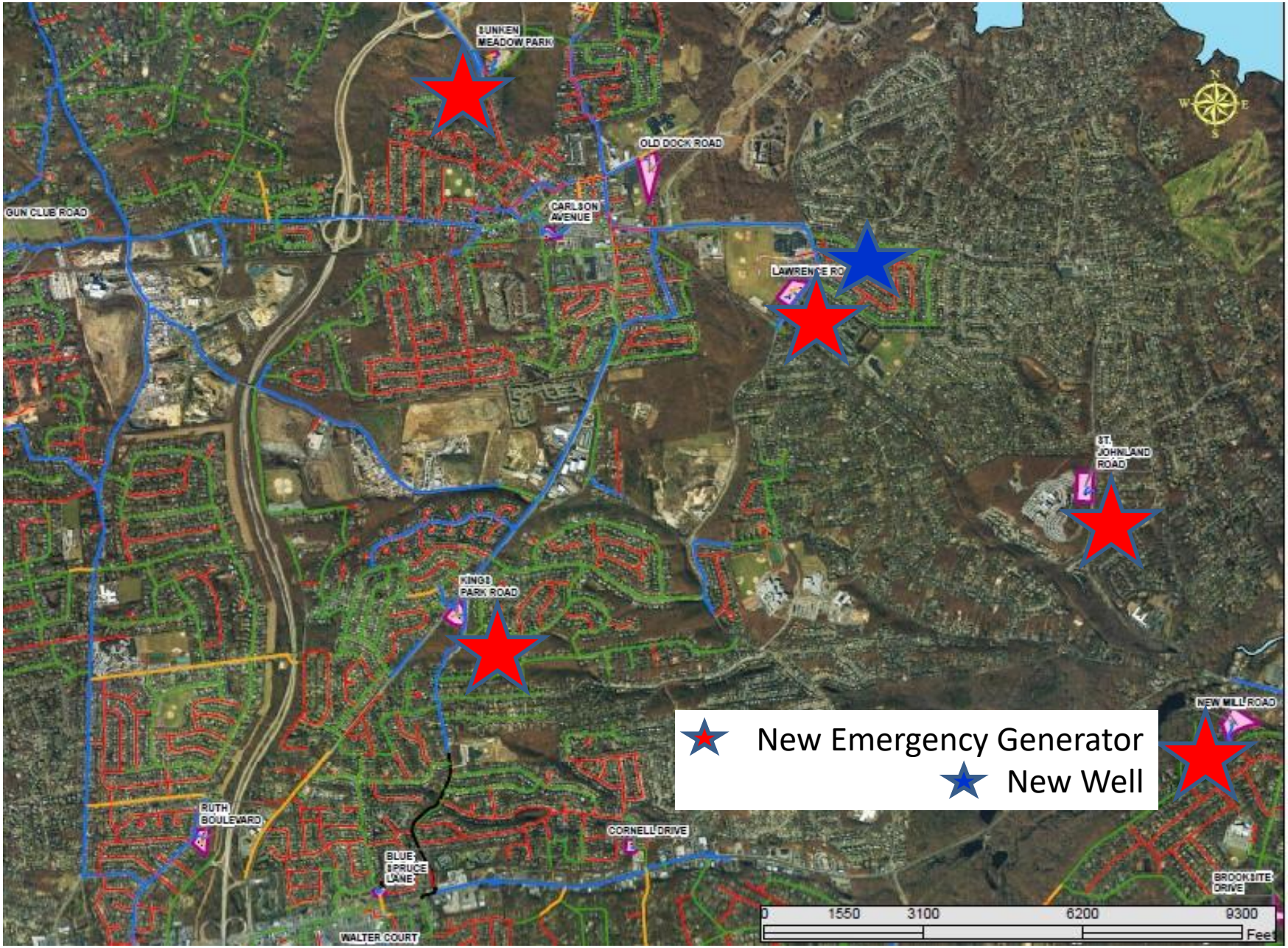
Water Main Break Excavation

Recent Water Main Work - Kings Park Area



Recent Pump Station Upgrades



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WaterTalk

Water Quality

Fil Sinni

-Laboratory Project Manager

SCWA Laboratory

- SCWA's in-house standards for water quality are often **tougher than** state or federal regulations.
- Tested for **400** compounds (**251 more than** required by regulators)
- Analyzed **55,000** samples last year for 167,000 tests.
- Testing at a **higher frequency** than required by SCDHS.

Test samples are taken at the wellhead, at various stages of treatment and within the distribution system for bacteria wide range of inorganic and organic chemicals.

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Distribution Sample Station

Consumer Confidence Report

SUFFOLK COUNTY WATER AUTHORITY
www.scwa.com

2018 DRINKING WATER QUALITY REPORT

For the period January 1, 2017 to December 31, 2017

(Including data for Fair Harbor, Riverside, Brentwood, Stony Brook and East Farmingdale Water Districts)

Dear Suffolk County Water Authority Customer:

In the following pages, you'll find the Suffolk County Water Authority's 2018 Drinking Water Quality Report. This report provides you with all the data you need to assess the quality of your drinking water. And since the report is now distributed electronically, you can now find information about water quality in your community quickly and easily, with just a click of a mouse.

The Suffolk County Water Authority once again this year has surpassed the tough water quality standards established by the U.S. Environmental Protection Agency and New York State Health Department, which both found our drinking water to be safe. You should know, though, that SCWA's internal standards for water quality are often far more rigorous than standards set by state and federal regulators. Providing our customers with drinking water that meets or surpasses all drinking water standards will always be our top priority. In 2017, our state-of-the-art laboratory tested for 387 chemicals—238 more than required by regulators—and analyzed approximately 53,000 samples that produced roughly 165,000 test results to make sure your drinking water is safe.

In addition to our test results, you will find inside this report other information about the quality of your water, as well as information about SCWA's Water-Talk initiative, which is a public education forum that gives Suffolk County residents the opportunity to hear from our water quality experts and ask questions about any water quality issues of concern. You will also find information about a unique collaboration between SCWA and Suffolk County towns within our service territory promoting sustainability and the SCWA Education Center in Hauppauge, which features exhibits that trace the journey of water from our sole source aquifer to your home or business.

If we can answer questions about the contents of this report, or if you wish to request a paper copy, please call our Customer Service center at 631-698-9500 and we'll be happy to assist you.

James F. Gaughran, Chairman,
Suffolk County Water Authority

Este informe contiene informacion muy importante sobre su agua de beber. Traduzcalo o hable con alguien que lo entienda bien.

Here's What's Inside:

Go to:

SCWA.com

To read the full Drinking Water Quality Report

What is 1,4-dioxane?

- 1,4-dioxane is a synthetic chemical historically used as a stabilizer for industrial solvents, predominantly 1,1,1-trichloroethane, which was banned in the 1990s.

- It is also used in inks and adhesives and is present in trace amounts in consumer products such as detergents, shampoos and cosmetics as a by-product of the manufacturing process.

- 1,4-dioxane can not be removed from water using traditional treatment methods such as Granular Activated Carbon (GAC) or air-stripping.

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SCWA Action on 1,4-dioxane

- SCWA began voluntarily testing for 1,4-dioxane in 2003.

- In 2016, SCWA engineers designed and piloted the first full-scale pilot 1,4-dioxane treatment system in NYS history. The Authority's Advanced Oxidation Process (AOP) treatment system is currently in operation in Central Islip.

- Results show AOP destroys 1,4-dioxane molecules to virtually non-detect levels.

Advanced Oxidation Process (AOP) Treatment

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Levels of Detection

- SCWA's state-of-the-art laboratory instruments can detect compounds in the water down to parts-per-**million**, parts-per-**billion,** or in some cases even parts-per-**trillion**.

- For reference:
  - 1 Part-per-million = 1 second in 12 days
  - 1 Part-per-billion = 1 second in 32 years
  - 1 Part-per-trillion = 1 second in 32,000 years

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WaterTalk

WaterTraq

Ty Fuller

-Lead Hydrogeologist

-Director of Strategic Initiatives

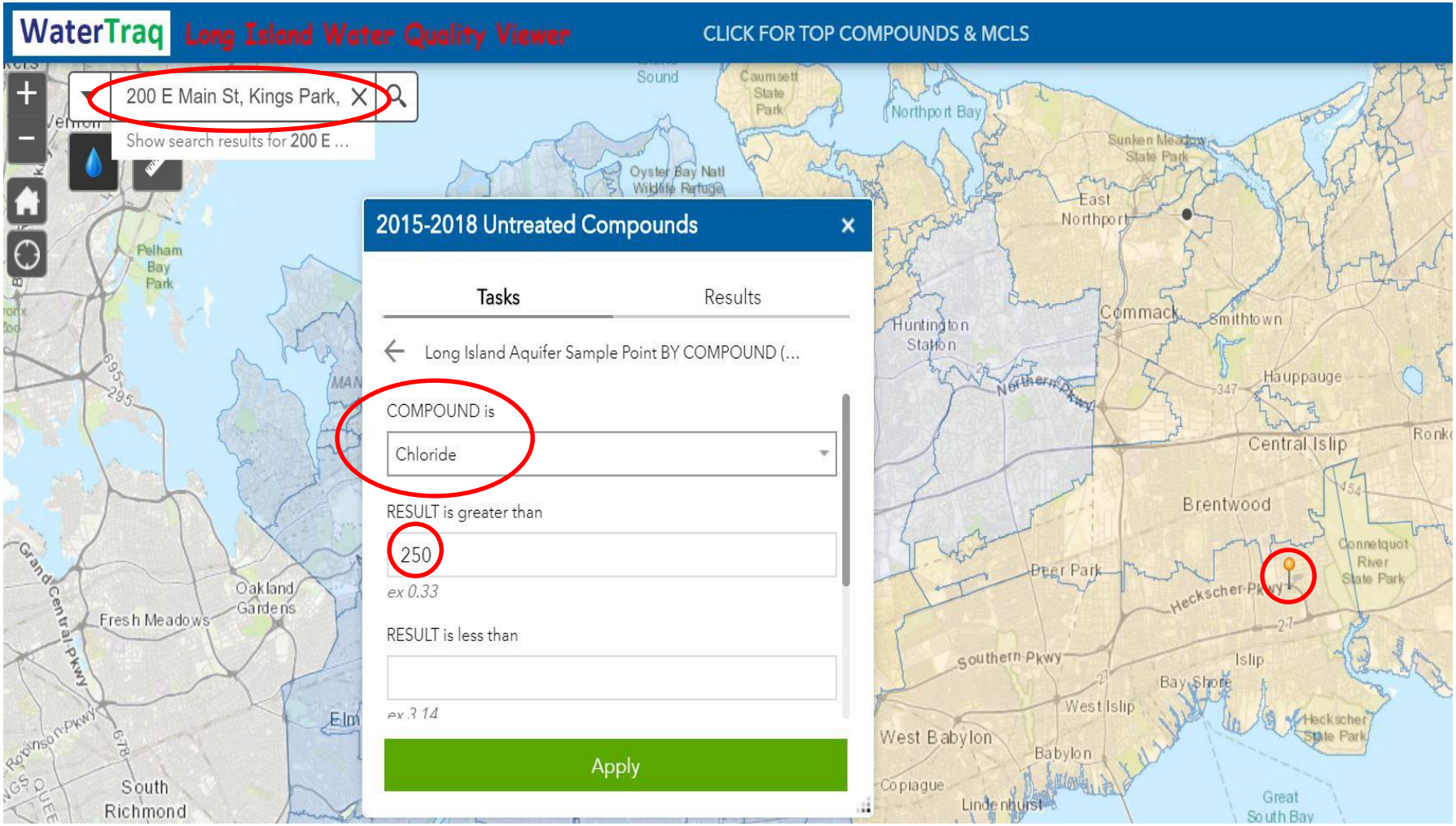
WaterTraq

- WaterTraq is an online GIS-based water quality database from the Long Island Commission for Aquifer Protection (LICAP).

- Users can search by address, or by contaminant at: LIAquiferCommission.com.

- Water quality data is pulled from:
  - Wells
  - Laboratory
  - SCWA, all other Long Island suppliers.

Searching with WaterTraq



http://liaquifercommission.com/watertraq.html

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Water Conservation

Ty Fuller

-Lead Hydrogeologist

-Director of Strategic Initiatives

Why Should I Conserve Water?

- Long Island has a sufficient, but not limitless supply of groundwater.

- Higher water usage means more SCWA infrastructure, which means more costs that are passed along to customers.

- Higher peak water usage impacts pressure and therefore fire protection.

- Over-pumping can have negative water quality impacts.

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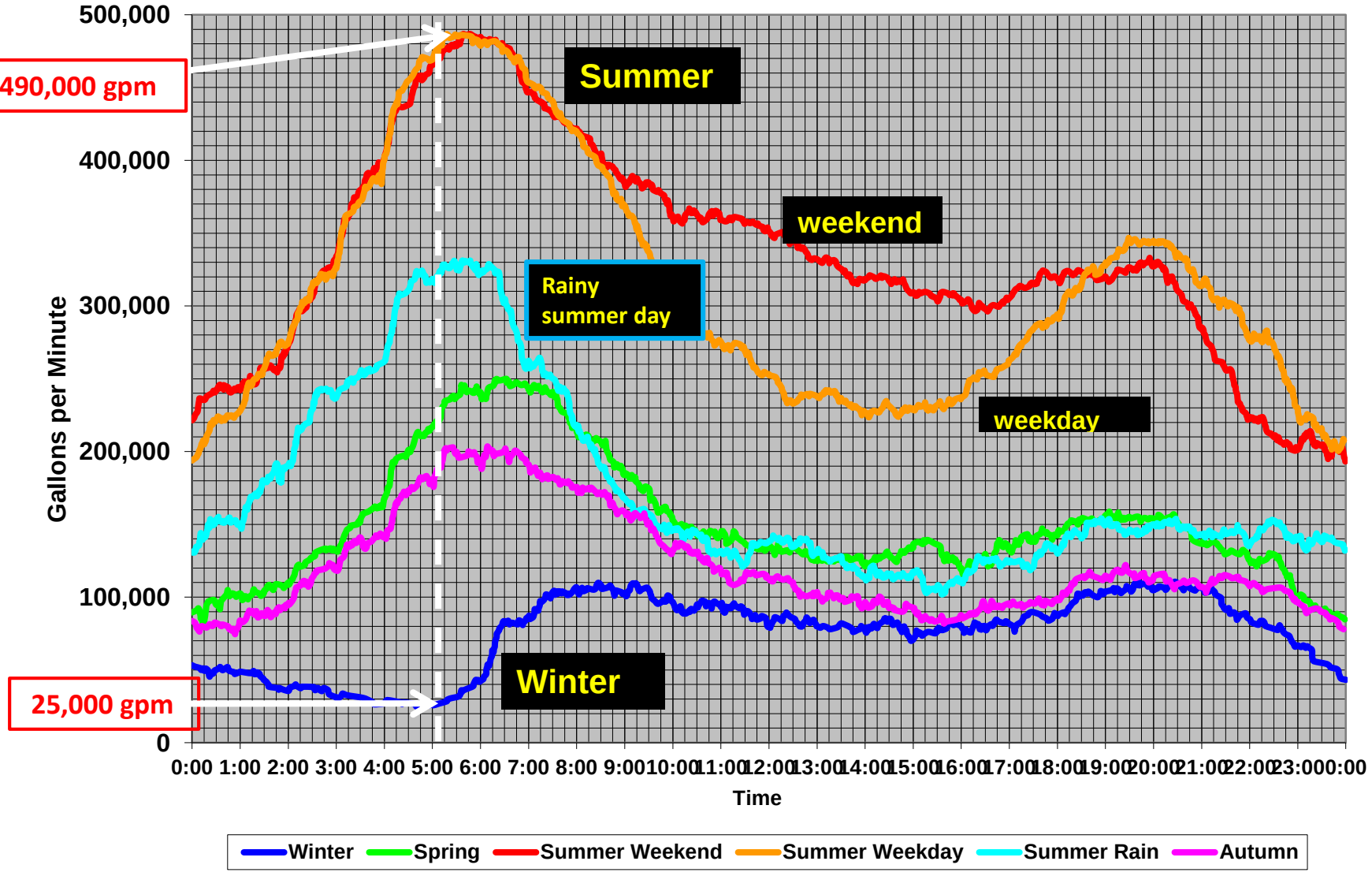
Seasonal Water Use - SCWA

The Irrigation Situation



Average User vs. Water Waster

- Average residential customer uses just under 130,000 gallons annually.
- Largest residential user consumed approximately 22 million gallons in 2016. *(Primarily Irrigation and Geothermal HVAC system)*
- A hospital in the same community used approximately 14.5 million gallons last year.

SCWA Tiered Rate Structure

- SCWA in April created a tiered rate structure to encourage the public to conserve our sole source aquifer that provides all of our drinking water.

- The rate is similar to others around the country and is designed to keep water rates as low as possible for those who don't use excessive water.

- How it works: Customers with meter sizes of one inch or smaller (the vast majority of SCWA customers) will pay the standard water rate of $2.03 per thousand gallons up to 78,540 gallons per quarter.

- Customers who exceed water usage of 78,540 gallons will be charged $2.34 per thousand gallons for every gallon over that threshold.

Water Conservation Tips

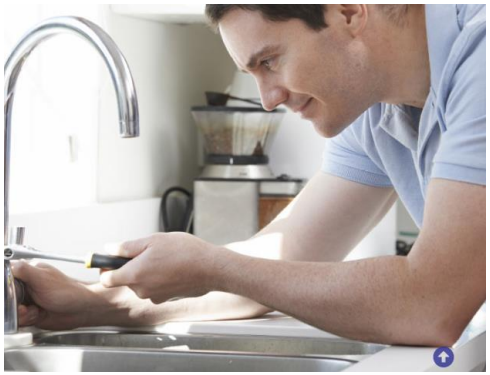
1) Be smart about watering your lawn with smart irrigation controllers and rain sensors.

2) Water less often.

3) Use EPA WaterSense products.

EPA WaterSense

4) Shorten your showers.



5) Detect & fix leaks.

Water Conservation Tips

6) Shut off the tap when brushing teeth.

7) Fully load washing machines & dishwashers before running.

8) Keep you plants moist with mulch.

9) Don’t hose it off if another tool will work.

10) Go to the car wash instead of using the hose.

Water Wise Programs

- The **Water Wise Checkup program** is a free service. One of our water experts will come to your home for a one-on-one consultation and develop a personalized plan to help you save water.

- **SCWA Water Wise Club** offers account credits up to $50 for the purchase of water-saving devices. Participants send in a form along with their receipt.

Sign up or learn more at SCWA.com

Call: (631) 292-6101

Email: WaterWiseCheckup@SCWA.com

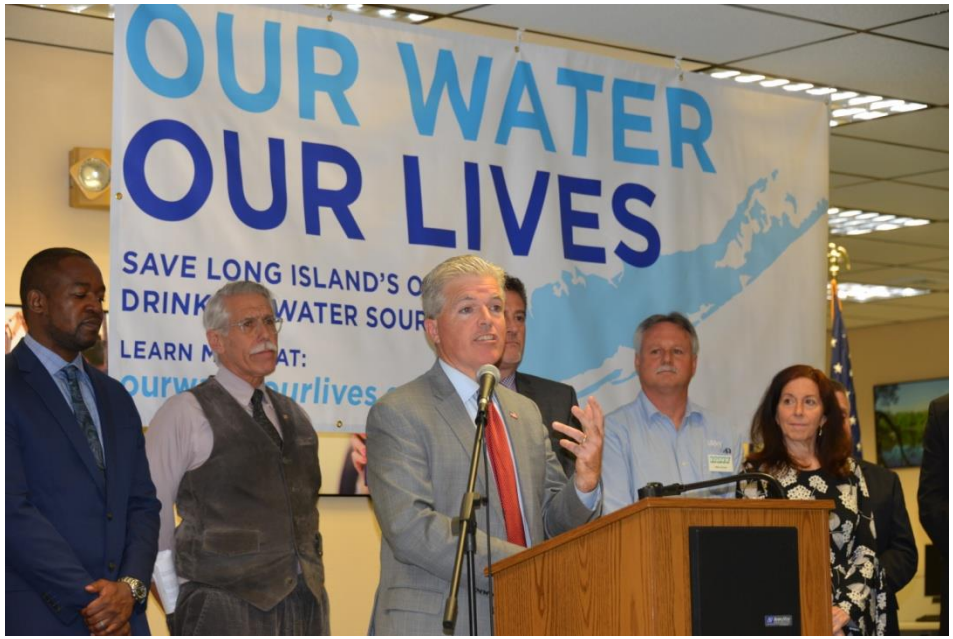
Direct Message us on:

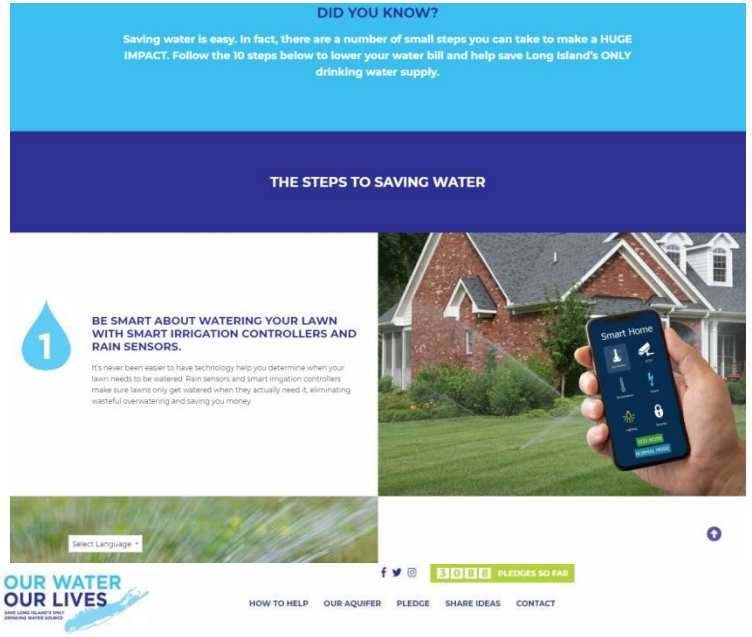
Facebook @SCWAwater

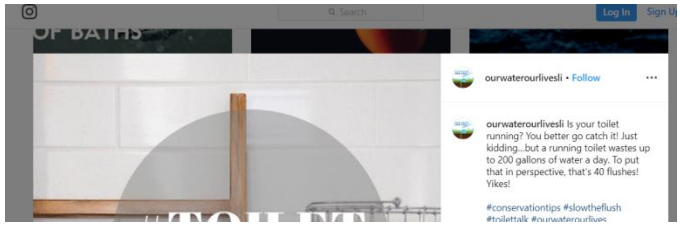
Twitter @SuffolkWater

SUFFOLK COUNTY SCWA WATER AUTHORITY

Our Water Our Lives Campaign







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WaterTalk

Questions?