

Public Presentation:

SCWA Douglas Avenue Well Field

Prepared for the Village of Northport

April 13th, 2021



Tonight's Public Presentation

- ▶ SCWA recognizes the importance of being a good neighbor when it comes to maintaining our properties across the county, which is why we are seeking to keep the Northport community informed about the upcoming work at our Douglas Avenue facility tonight.
- ▶ We know this type of work can be disruptive to the local community, but it is necessary to ensure a **clean, safe drinking water supply** for the surrounding area.
- ▶ This project is being funded by the recently enacted Water Quality Treatment Charge found on your SCWA water bill.
- ▶ SCWA has also received a \$900K grant from the NYS Environmental Facilities Corporation to help pay the anticipated \$3+million dollar cost of this project.

SCWA Representatives With You Tonight

Joseph Pokorny P.E. - Deputy CEO for Operations

Tim Kilcommons P.E. - Chief Engineer and Director of R&D

John Milazzo - General Counsel

Scott Meyerdierks - Lead Civil Engineer

Joe LoRusso - Architectural Designer

Seth Wallach - Community Outreach Coordinator

Notification of Tonight's Public Presentation



Timothy J. Kilcommons, P.E.
Chief Engineer/Director of R&D

SUFFOLK COUNTY WATER AUTHORITY

Mailing Address: P.O. Box 38, Oskatek, NY 11769-0031
Engineering Office: 3525 Sunrise Highway, Great Neck, NY 11739
(813) 543-0351 Fax (813) 859-0613

April 6, 2021

Dear Suffolk County Water Authority Pump Station Neighbor:

As part of our continuing effort to provide the highest quality water to our customers, we are planning to perform a major upgrade to the water treatment facilities at our Douglas Avenue pump station property located near your property. The project involves the removal of the existing granular activated carbon (GAC) system (currently housed in the large yellow, metal building) and replacing it with two new GAC systems along with two new advanced oxidation systems. The new treatment systems will remove 1,4 dioxane, a contaminant recently regulated by New York State.

The logistics of this project are such that we need to keep the existing treatment system in place while we construct the new systems. We are aware of the community's residential nature and for that reason we are planning to house the new AOP/GAC treatment systems in a newly constructed building that we believe will represent an aesthetic improvement to the site. Once the new systems are in service, the existing GAC filter and building will be removed. A site plan showing the location of the new building, along with photo-realistic drawings of that building, are attached for your information.

The new building will be constructed where the current garage/apartment accessory building is located. The apartment and the house at #21 McKinley will be removed to make room to construct, access and maintain the new filter building. Landscaping will be installed to help screen the facilities. We know this type of work can be disruptive to the local community, but it is necessary to ensure a clean, safe drinking water supply for the surrounding area. This project is being funded by the recently enacted Water Quality Treatment Charge found on your SCWA water bill.

The Authority will make a presentation to the Northport Village Board during a special public meeting that will be held virtually on April 13, 2021 at 6 pm. Details regarding this meeting and a link will be posted on the Northport Village website. We hope that you can join us at this meeting where you will have the opportunity to gain a better understanding of the scope of work and to provide us with your feedback. We hope to see you at the meeting.

Sincerely,

Timothy J. Kilcommons, P.E.
Chief Engineer/Director of R&D

www.SCWA.com

<https://northportny.gov/>



PUBLIC NOTICE



As part of our continuing effort to provide the highest quality water to our customers, we are planning to perform a major upgrade to the water treatment facilities at this pump station.

The Suffolk County Water Authority will make a presentation to the Northport Village Board during a special public meeting that will be held virtually on April 13th, 2021 at 6:00 pm. Details regarding this meeting and a link are posted on the Northport Village website (NorthportNY.GOV).

For more detailed information related to this project please visit our website at (www.scwa.com).

Douglas/McKinney Property History

- ▶ SCWA Acquired Douglas Avenue Elevated Tank property 1960 as part of the Northport Waterworks Company.
- ▶ 1967 - Well #1 drilled and placed in service
- ▶ 1980 (approx.) - Elevated Tank demolished
- ▶ 1989 - GAC filtration added for well #1
- ▶ 2015 - SCWA purchases 21 McKinney
- ▶ 2016 - 2018 - Well #2 is constructed and placed in service utilizing part of 21 McKinney property
- ▶ 2016 and 2017 - two unsuccessful attempts to sell remainder of 21 McKinney Property
- ▶ 2020 NYS adopts MCL for Emerging Contaminants 1,4 Dioxane and PFOA/PFOS

Douglas Ave PS as Part of Northport's Water Supply

- ▶ The Douglas Avenue PS produces approximately 19% of water consumed in the Northport Area.
- ▶ The water quality is generally very good with low nitrates, no pesticides and very little iron.
- ▶ VOC contamination is commonly found in Huntington wells and as a result, GAC systems are commonly used throughout the area.
- ▶ The Douglas Avenue PS helps maintain local water pressure in the area and as far away as Eaton's Neck.

1,4-Dioxane, PFOS & PFOA

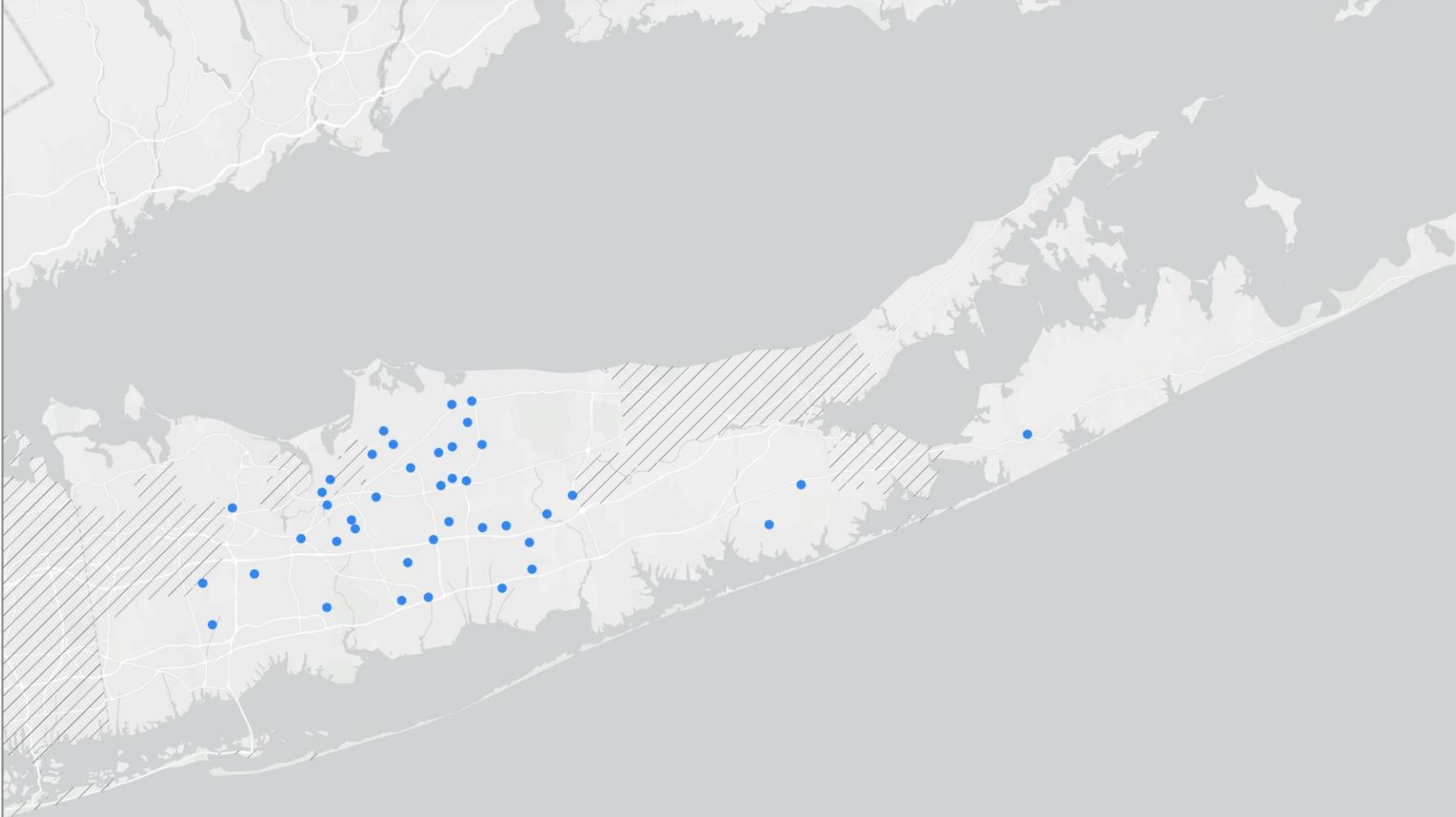
- ▶ 1,4-dioxane is a synthetic chemical historically used as a stabilizer for industrial solvents, predominantly 1,1,1-trichloroethane, which was banned in the 1990s. It is also used in inks and adhesives and is present in trace amounts in consumer products such as detergents, shampoos and cosmetics as a by-product of the manufacturing process.
- ▶ Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) are fluorinated organic chemicals used in treatments to protect carpets, clothing, furniture fabrics, paper packaging for food and non-stick cookware. They are also used in firefighting foams.

Removing 1,4-Dioxane, PFOS & PFOA

- ▶ In August of 2020 New York State set new Maximum Contaminant Levels (MCL) for three emerging contaminants in water: 1,4-Dioxane, PFOA & PFOS.
 - ▶ The new MCL for 1,4-Dioxane is 1 part-per-billion.
 - ▶ The new MCL for PFOS/PFOA is 10 parts-per-trillion.
 - ▶ Both have been detected in water in parts of Suffolk County in trace amounts.
 - ▶ Both wells at Douglas Avenue PS have low levels of 1.4 Dioxane in them. Latest data (Well#1 2.73 ppb, Well #2 1.2 ppb)
- ▶ For reference:
 - ▶ 1 Part-per-billion = 1 second in 32 years
 - ▶ 1 Part-per-trillion = 1 second in 32,000 years

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

April 12, 2021

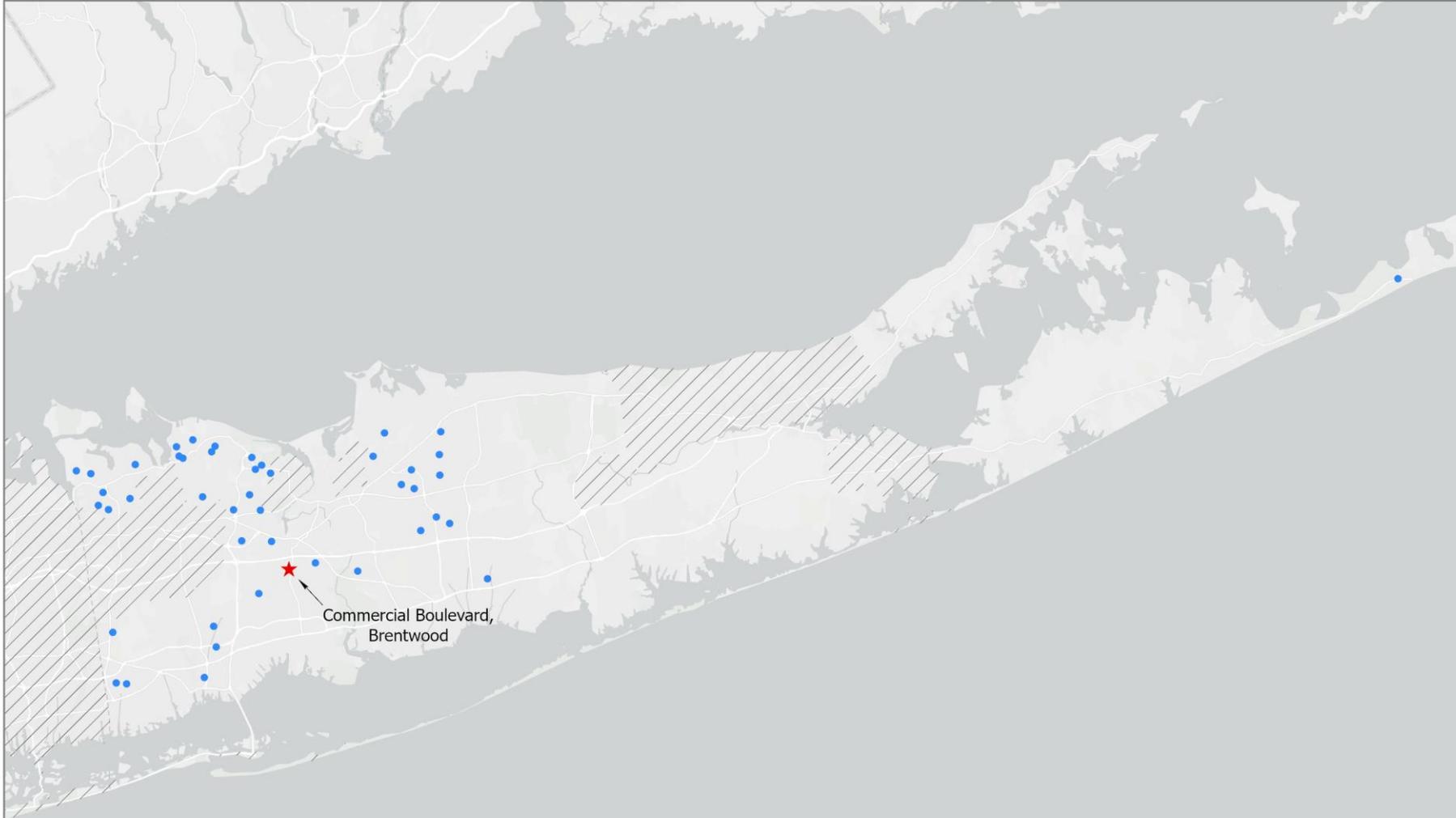


10 Miles

Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

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

April 12, 2021



10 Miles

2020-1 Potential AOP Projects - Water Talk; KRC

Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

Upgrades to the Douglas Avenue Pump Station

Presented by
Tim Kilcommons P.E. - SCWA Chief Engineer and Director of R&D

Douglas Ave PS Upgrades Will Include:

- ▶ Removal of the existing house and cottage at 21 McKinney Avenue.
- ▶ Construction of two new granular activated carbon (GAC) systems along with two new advanced oxidation systems which remove 1,4-Dioxane from drinking water.
- ▶ Installation of a pre engineered building to house systems.
- ▶ Removal of existing (GAC) system and building on site.
- ▶ Installing Landscaping, replacement of fencing and site restoration.

New Granular Activated Carbon (GAC) Systems



Existing Douglas Ave GAC Building



Advanced Oxidation Process (AOP) System to Remove 1,4-Dioxane from Drinking Water

**SCWA COMMERCIAL BLVD. AOP SYSTEM
NYSAWWA Project of the Year**



Rendering of Completed Site



Color Options



Planned Schedule of Work

- ▶ Demolition of house and cottage end of May/beginning of June
- ▶ Site work (grading and placement of concrete slab for GAC systems) immediately following demolition work
- ▶ Delivery of GAC systems (mid to late June) followed by piping/electric; place GAC systems in service by end of summer
- ▶ New AOP/GAC building (Fall/Winter 2021) & demolition of existing GAC building
- ▶ AOP system installation (Spring 2022) and start-up (takes place inside the new building with minimal noise)
- ▶ Site restoration Spring 2022
- ▶ **All efforts will be made to compress the schedule time.**

Questions?



For additional questions related to this project please contact:
Tim Kilcommons at Tim.Kilcommons@SCWA.com