

SUFFOLK COUNTY WATER AUTHORITY

Production Control - Bay Shore, New York

INTER-OFFICE CORRESPONDENCE

DATE: September 27, 2021

TO: Jeffrey Szabo, CEO

FROM: Michael O'Connell, Director of Production Control
Timothy Kilcommons, P.E., Chief Engineer & Dir. of R&D

SUBJECT: Emerging Contaminants Action Plan Monthly Update

The Suffolk County Water Authority has for years proactively addressed emerging contaminants in groundwater such as the perfluorinated compounds PFOA and PFOS and 1,4-dioxane, both through comprehensive testing and the development and implementation of innovative treatment technologies.

The following is the latest monthly update to the Emerging Contaminants Action Plan requested by the SCWA Board to provide the public with up-to-date information about the steps being taken to ensure that SCWA meets or surpasses the rigorous regulations established by New York State to remove these compounds from our groundwater. This update covers the period from August 23, 2021 to date.

PFC's

Since the last update, Construction Maintenance has completed the underground piping for the two new GAC systems at Hallock Ave (Smithtown) and Horseblock Rd (Farmingville). These systems are now undergoing start-up procedures by Production Control to prepare them for service.

These two wells are the last SCWA wells that have PFC levels above the MCL. They are both currently blended to below the MCL. Future GAC installs will be addressing those wells that are over ½ the MCL of 10 ppt. and the purchasing process has begun for the next six sets of GAC vessels.

1,4-dioxane

SCWA submitted final contract plans to NYSDOH for the Smith St East Farmingdale AOP system in late March 2021. The Health Department approved these plans on June 1, 2021. The bid documents for this AOP were published and bids have been received. Engineering is currently reviewing the bids to make an award recommendation.

Design work and contract preparation continues with regards to the mechanical installation, controls, and peroxide delivery systems contracts that will be required to build the AOP systems. Site work continues for future AOP sites and electrical upgrade work where required continues. The Furnish &

Deliver contract for 16 AOP reactors representing the wells at sites awarded WIIA grants had a bid opening date of January 21, 2021. The bid was awarded to Xylem, Inc. and they have executed the contract and a Purchase Order has been issued. Submittal approval and manufacture of these reactors is currently under way. Delivery of the first four reactors is currently projected to be in November 2021. The mechanical and electrical plans for Flower Hill Rd were submitted to NYSDOH in early June for their review and approval. We received comments from both the NYSDOH and the SCDHS. The contracts were put out for bid and the bid opening was on September 8, 2021. A recommendation for award is on the Board's agenda for the September 30 Board Meeting. The next mechanical installation contract is for the AOP's at Hollywood Place and McKay Road. That contract has a bid date of October 13th.

Two contracts were awarded for AOP building additions at 7 locations: Hollywood Pl, McKay Rd, Waterside Dr, Sunken Meadow Park, Broadway, Falcon Dr, and Flower Hill Rd. These additions will house 13 AOP systems. Metal building additions have been completed at Falcon Dr, Flower Hill Rd, Waterside Rd, Hollywood Pl and McKay Rd. The electrical contractor has begun installing lights and heat at Hollywood Pl. Foundation work has been started for the addition at Broadway and building materials have been delivered to Sunken Meadow.

At Douglas Ave (Northport), demolition of the existing structures next door was completed on 06/17/21 and two new GAC systems have been received. Construction Maintenance has begun the yard piping for these new GACs. A contract has been awarded for the construction of a GAC/AOP building at Douglas Ave. CM has completed the installation of piping for two new GAC systems at Lawrence Rd (Kings Park) for future AOP systems at that site.

The AOP pilot work needed to obtain NYSDOH approval for the use of AOP at any of our sites has been completed. Production Control staff utilizing our mini-AOP reactor pilot trailer have completed pilot testing of twenty-nine (29) wells. Analysis of the data obtained to date has revealed no surprises in terms of by-product formation resulting from the AOP process. In June, the Authority requested a waiver from further pilot testing from NYSDOH due to the extensive amount of data already provided and similar results at every site we have piloted. Initial feedback on this request has been positive although no formal approval has been received. Another requirement for AOP system design is Water Quality Characterization. This is necessary for every well receiving AOP treatment. It helps identify compounds besides 1,4 dioxane that may be competing for the hydroxyl radicals created during AOP. SCWA has entered into an agreement with the University of North Carolina at Charlotte to perform this testing. We continue to ship samples from various wells requiring treatment to UNC @ Charlotte for analysis.

The new well Old Dock Rd #2 (Kings Park) has been drilled and the well building is currently under construction. CM has installed the yard piping tie-ins. This well was drilled with the knowledge that it will require an AOP treatment system. It will replace Carlson Ave #5 and #6 (Kings Park), both of which require AOP but are very old wells and are located on a site that does not have enough room for more treatment systems.

Emerging Contaminant Wells Current Status

As of this writing, all wells that have PFOA or PFOS above the MCL are either being treated to remove the contaminants, are being blended to below the MCL or have been removed from service until treatment is installed. Wells that are above ½ of the MCL continue to be blended or have their run time managed to maintain lower levels.

Similar strategies apply to 1,4-dioxane management. We continue to add blending where we can. As water demand increased with the warmer weather, we had to utilize wells that have 1,4-dioxane levels above the MCL. Now that demand is decreasing for winter, we are once again removing the higher 1,4-dioxane wells from service. Wells with levels of 1,4-dioxane over the MCL are also programmed in our SCADA system that they are the last wells on and the first wells off. This approach ensures that the water entering our system has the lowest possible 1,4-dioxane concentrations while at the same time ensures our ability to meet demand for both domestic and emergency use by our customers. We are also scheduling and exchanging carbon on all wells that have exceeded the MCL where we have a carbon system in place. Carbon does remove 1,4-dioxane, not well, but it does for a short period of time. Therefore, with new carbon, we can keep the levels as low as possible. This has and will continue to escalate our carbon and labor expenses.

SCWA applied for a MCL deferral to the NYSDOH. The application was approved on January 7, 2021.

Cc: J. Pokorny
K. Durk
T. Hopkins

Emerging Contaminant Wells Current Status
All Wells > 1/2 MCL

9/27/2021

PFOA / PFOS MCL = 10 ppt

Zone	Station	Well	Recent levels (PFOA/PFOS)	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)
1	Bellmore Ave	1	15/19	I/S	On GAC	4/24/2020	195-20-00-0068	\$ 37,512
1	Church St Hol	1A	11/6.9	I/S	On outdoor GAC - Seasonal	5/7/2019		
1	Church St Hol	2	8.7/4.6	O/S	O/S 11/2/18 - pending additional GAC installation			
1	Foxcroft Ln	1A	5.1/18	I/S	Received DHS approval to treat with resin (ion exchange) in portable GAC system; first approval of resin for PFC's in NY. Outdoors - seasonal	5/30/2019	055-18-00-0019	\$ 165,590
1	Foxcroft Ln	2	8.1/5.0	I/S	Blended inside #1A - Seasonal well, #1A seasonal GAC. Last blend was 4.4/2.7	7/18/2019		
1	Smith St	8	ND/5.3	I/S	Monitor			
1	Station Rd	1A	6.3/11	I/S	On outdoor GAC - Seasonal	3/14/2020	055-19-00-0015	\$ 417,765
1	Station Rd	2A	4.9/2.5	I/S	Runs inside Well #1A when #1A is in service.			
10	Ruth Blvd	3	ND/7.8	I/S	Piped to existing GAC. Monitor		055-19-00-0018	\$ 23,057
11	St. Johnsland Rd	1	4.5/2.8	I/S	Monitor - new to list 06/21 (6.1/2.8)			
12	Blue Point Rd	1	5.4/3.4	I/S	Blended with any other well. Last blend 3.3/ND	10/31/2016		
12	Carrol St	2	4.1/2.5	I/S	Blended - no further action planned	8/18/2016		
12	Hallock Ave	1	ND/20	I/S	Blend with Well #2 and #3 - GAC system and piping complete, PC start-up in progress	5/11/2021		
12	Hallock Ave	2	ND/8.5	I/S			195-21-00-0061	\$ 758,862
12	Hallock Ave	3	ND/7.6	I/S	With rotations, runs every other day			
12	Horseblock Rd	2	5.7/ND	I/S	Monitor - new to list 08/21			
12	Liberty St	2	8.1/5.3	I/S	With rotations, runs every other day - GAC from Douglas to go here over winter			
12	Liberty St	3	5.2/2.9	I/S	With rotations, runs every other day - no further action planned			
12	Lincoln Ave	2	ND/14	I/S	Blended; New GAC vessels delivered. Yard piping completed. Sampling new piping. Well I/S and assigned to GAC "B" 03/19/2021.	3/19/2021	195-21-00-0065	\$ 549,854
12	Morris Ave	1	3.7/3.2	I/S	Monitor - Decreased since Well #4 went on GAC		195-20-00-0059	\$ 576,048
12	Morris Ave	4	4.8/22	I/S	On outdoor GAC - Seasonal	6/28/2020	195-20-00-0054	\$ 118,797
12	Pierson St	1	10/4.3	I/S	Assigned to new GAC "A" system 5/10/21	5/10/2021	195-21-00-0068	\$ 639,167
12	Pierson St	2	13/9.8	I/S	GAC delivered 12/30/20. Piping by CM complete. Initial carbon fill scheduled 5/24/21. Well assigned to GAC 5/26/21	5/26/2021	195-21-00-0068	\$ 639,167
12	Plymouth St	1A	8.2/13.0	I/S	Assigned to new GAC "B" system 4/13/2021	4/13/2021	195-21-00-0062	\$ 634,044
12	Plymouth St	2A	5.9/8.2	I/S	Assigned to new GAC "A" system 4/29/2021	4/29/2021	195-21-00-0062	\$ 634,044
12	Station Rd	3A	5.4/3.5	I/S	Monitor - Level goes down when #1A is in service in summer			
12	Sy Ct	3	12/6.9	I/S	On outdoor GAC - Seasonal	10/28/2020	195-20-00-0056, 195-20-00-0061	\$ 724,517
12	Townline Rd Nes	1A	9/14	I/S	On GAC	2/10/2020	055-19-00-0014	\$ 100,412
12	Wheeler Rd	3	16/13	I/S	Well I/S and assigned to GAC "A" 03/08/21	3/8/2021	195-21-00-0063	\$ 75,433
12	Wheeler Rd	4	ND/ND	I/S	Since Well #3 went on GAC, levels have dropped to Non-Detect. Monitor			
12	Wheeler Rd	5	2.5/6.5	I/S	On GAC - Was 18/32, big drop in level at HOP in March '21	9/6/2019	055-19-00-0017	\$ 15,888
12	William Floyd Pkwy	3A	2.2/5.8	I/S	Monitor - Level has been below 5.0. Can blend if needed.			
15	Bicycle Path	1	6.3/2.7	I/S	Blended for Mn for many years. Monitor. Last blend was 2.6/ND			
15	Boyle Rd PJ	2	8.0/4.3	I/S	Blended for nitrates for many years. Last blend was 4.8/2.3. Next round of GACs	7/31/2007		
15	Boyle Rd South	1	5.5/4.2	I/S	Monitor			

Zone	Station	Well	Recent levels (PFOA/PFOS)	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)
15	Crystal Brook Hollw	4	5.3/7.0	I/S	Monitor - new to list 08/21			
15	Daniel Webster Dr	1	5.5/2.4	I/S	Monitor			
15	Dare Rd	2	5.3/4.7	I/S	No action planned, continue to monitor			
15	Edgewood SJ	1A	13.0/5.9	I/S	New GAC vessels installed in existing building. Assigned to GAC 05/14/21	5/14/2021	195-21-00-0064 055-19-00-0021,	\$ 579,263
15	Fairmount Medford	3	22/33	I/S	On outdoor GAC - Seasonal	5/19/2020	195-20-00-0052	\$ 609,567
15	Flint Ln	1	4.8/2.9	I/S	New GAC will load in Spring. Assigned to new GAC "B" 05/28/21	5/28/2021	195-20-00-0057	\$ 157,860
15	Flint Ln	2	5.4/6.0	I/S	New GAC will load in Spring. Assigned to new GAC "B" 05/15/21	5/15/2021	195-20-00-0063	\$ 1,051,739
15	Hawkins Rd	3	4.4/6.0	I/S	Continue to monitor			
15	Horseblock Rd	1	10/3.5	I/S	Already blended for nitrates. GAC System yard piping complete	5/12/2013	195-21-00-0067	\$ 724,023
15	Oxhead Rd	1A	4.4/100.0	I/S	On outdoor GAC - Seasonal	6/7/2017	055-17-00-0014	\$ 265,494
15	Oxhead Rd	2A	6.4/6.7	O/S	Blended inside #3. Last blend was 4.1/4.7	5/20/2017		
15	Oxhead Rd	4	2.3/5.3	O/S	Blended inside #1A, Last blend was ND/3.3	7/1/2017		
15	Stem Ln	1	6.2/23	I/S	On outdoor GAC - Seasonal	8/6/2020	195-20-00-0058, 195-20-00-0062	\$ 672,080
15	Strathmore Ct	1	4.0/2.2	I/S	With rotations, runs every third day - no further action planned			
15	Strathmore Ct	3	5.7/4.6	I/S	With rotations, runs every third day - no further action planned			
15	Wheat Path	1	5.9/2.6	I/S	With rotations, runs every third day - no further action planned			
20	Gus Guerrero	1	ND/14	I/S	On outdoor GAC - Seasonal	7/27/2016	055-17-00-0016	\$ 182,842
20	Gus Guerrero	2	ND/ND	I/S	Removed from GAC due to decrease in levels 11/2020	7/11/2017		
20	Meetinghouse Rd	12A	8.6/130.0	I/S	On GAC	6/10/2016	055-17-00-0015	\$ 788,844
20	Meetinghouse Rd	14	5.9/220.0	I/S	Same as above	6/10/2016	055-18-00-0015	
20	Meetinghouse Rd	17	260/1,610	I/S	Same as above	6/10/2016		
20	Meetinghouse Rd	19	80/200	I/S	Same as above	6/10/2016		
20	Meetinghouse Rd	22	3.9/100	I/S	On GAC	7/27/2016	055-17-00-0013	\$ 29,528
20	Old Country Rd	1A	5.9/26	I/S	Blended with #3 and #4 and throttled. Last blend was 2.1/6.3. Next round of GAC	7/30/2007 6/10/2021		
20	Old Country Rd	4	10/48	I/S	On outdoor GAC - Seasonal	6/26/2020	055-19-00-0020, 195-20-00-0053	\$ 802,282
23	Bridgehampton Rd	2A	3/36	I/S	On GAC	10/1/2019		
23	Long Springs Rd	1A	9/8	I/S	On outdoor GAC - Seasonal	4/20/2020	055-19-00-0019	\$ 35,490
23	North Magee	3	2/13	O/S				
23	West Prospect	1	7/20	I/S	Loaded carbon in existing empty vessel	3/18/2019		
23	West Prospect	2A	ND/2.8	I/S	Monitor, seasonal well, runs in last call for Fe (High of 5.4 in June 21)			
32	County Rd 31	1	ND/22	I/S	On outdoor GAC - Seasonal	8/19/2020	195-20-00-0055, 195-20-00-0060	\$ 691,008

Total Funds Authorized to date for PFAS related work \$ 12,700,176

Total Funds Authorized to date for Emerging Containment Work \$ 25,540,500

Actions typed in RED have occurred in the past 30 days.

Wells highlighted in green are being treated to remove contaminant

Emerging Contaminant Wells Current Status
All Wells > 1/2 MCL

9/27/2021

1,4 Dioxane MCL = 1.0 ppb

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
1	Albany Ave	6	0.66	O/S	Blended w/ 4A - Last blend 0.26	8/23/2016			
1	Barton Ave	2A	2.05	O/S	Blended w/ any other well. Last blend was 0.78	2/19/2019			
1	Brook Ave	4	0.60	O/S	O/S for Mn				
1	Forty First St	6	0.80	I/S	Blended with Well #5 for operational control. Last blend was 0.26	8/23/2004			
1	Great Neck Rd	1	3.40	O/S	2 well blend was below 1.0. Blended	10/31/2016			
1	Harvest Ln	1A	1.80	O/S	Locked in Call-3. Last blend 0.83	10/31/2017			
5	Hollywood Pl	1	0.74	I/S	Lock in Call-2 to minimize run time. One of two well fields in Zone. Mini AOP pilot complete. Blow-off basin modified, GAC Bldg addition complete. Installing HLV in addition.		195-20-00-0068, 195-21-00-0052	\$ 518,835	1
5	Mill Lane	13A	0.69	I/S	With rotations, runs every third day. New carbon in April '21				
6	Broadway	1A	1.95	I/S	Mini-AOP pilot complete; site work, piping has been relocated. Blended with Well #2 and #3. Last blend was 0.67. GAC Bldg expansion - foundation work in progress.		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	2	1.26	I/S	Mini-AOP pilot complete; site work, piping has been relocated; Well locked in lower call to minimize run time. New carbon 06/06/21. Last GAC Eff was 0.05. GAC Bldg expansion - foundation work in progress		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	3	0.72	I/S	Monitor; mini-AOP pilot complete; site work, piping has been relocated. GAC Bldg expansion - foundation work in progress		195-20-00-0066, 195-21-00-0053	\$ 200,023	2
6	Flowerhill Rd	1	2.67	O/S	Runs blended with two other wells, last on - first off. Mini AOP pilot complete; electric upgrade complete; GAC Bldg expansion - steel being installed. Carbon changed 06/10/21. O/S for winter		195-20-00-0020, 195-21-00-0051	\$ 168,625	1
6	Flowerhill Rd	2	2.59	I/S	New carbon 09/20, Locked in Call 3. 4/21 GAC EFF was Non detect. Mini AOP pilot complete; electric upgrade complete; GAC building expansion - steel installation in progress.		195-20-00-0020, 195-21-00-0051	\$ 168,625	1
6	Flowerhill Rd	3	1.73	I/S	New carbon 10/20, Locked in Call-2; 4/21 GAC Eff was Non detect. Mini AOP pilot complete; electric upgrade complete; GAC building expansion - steel installation in progress.		195-20-00-0020, 195-21-00-0051	\$ 168,625	1
6	Jennings Rd	1	0.57	I/S	With rotations, runs every other day.				
6	Jennings Rd	3	0.72	I/S	With rotations, runs every other day				
6	Mayfair Dr	1	0.47	I/S	With rotations, runs every other day. *GAC Effluent sample. Mini AOP pilot complete				2
6	Mayfair Dr	2	0.89	I/S	With rotations, runs every other day. *GAC Effluent sample. Mini AOP pilot complete				2
6	Woodchck Hillw	1A	1.00*	O/S	Blended with Wells #2 and #3. *GAC Eff sample. Last blend was 0.76	9/25/2020			2
6	Woodchck Hillw	2	0.98	I/S	Blended inside Well #3. Was below 1/2 MCL in May 2021.	8/7/2021			
6	Woodchck Hillw	3	0.59	I/S	With rotations, runs every other day				
7	McKay Rd	1	0.94	I/S	Mini AOP pilot complete; GAC building expansion complete. GAC vessel painting and rehab complete. GAC Eff sample 0.87		195-20-00-0070, 195-21-00-0055	\$ 465,219	1
9	Douglas Ave	1	4.02	I/S	Mini AOP pilot complete - 6/2/21 GAC eff 1.67. Carbon changed 06/30/21		195-22-00-0051, 195-22-00-0053, 195-21-00-0066, 195-22-00-0051,	\$ 1,270,911	1
9	Douglas Ave	2	2.29	I/S	Mini AOP pilot complete. New GAC s for AOP delivered. Piping work started. GAC/AOP building contract awarded.		195-22-00-0053, 195-21-00-0066	\$ 1,270,911	1

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
9	Middleville	1	1.09	I/S	Blended - Mini AOP pilot complete; site work project authorized; new GAC vessels delivered. Last blend was 0.92		195-21-00-0059,	\$ 630,573	1
9	Middleville	2	0.87	I/S	Mini AOP pilot complete		195-21-00-0070	\$ 159,693	1
9	Sunken Meadow	1	1.11	I/S	Piping relocated - Mini AOP pilot complete. Last GAC Eff was 0.84		195-21-00-0059, 195-20-00-0065,	\$ 234,602	2
9	Sunken Meadow	2	0.81	I/S	Monitor; piping relocated - Mini AOP pilot complete		195-21-00-0056, 195-20-00-0065,	\$ 234,602	2
9	Waterside Rd	2	0.93	I/S	Mini AOP pilot complete; blow-off basin complete; GAC Bldg expansion complete. Lock in Call-2. Mini AOP pilot complete; *GAC Effluent sample. Carbon changed on 06/08/21		195-21-00-0056, 195-20-00-0069,	\$ 608,715	1
9	Wayne Ct	1	1.07*	I/S			195-21-00-0054		2
10	Church St NPT	1	0.91	I/S	Nitrate Blend w/ Washington - last blend 0.48; mini AOP pilot complete	7/25/2007			2
10	Church St NPT	2	0.95	I/S	Nitrate Blend w/ Washington - last blend 0.55; mini AOP pilot complete	8/22/2007			2
10	Reservoir Ave	1A	0.78*	I/S	Nitrate Blend w/ Washington - *GAC Effluent Sample; PSE&G service upgrade completed; mini AOP pilot complete.	1/22/2016	195-21-00-0069	\$ 36,327	
10	Reservoir Ave	2	0.64*	I/S	Nitrate Blend w/ Washington - *GAC Effluent Sample; PSE&G service upgrade completed; mini AOP pilot complete.	5/25/2012	195-21-00-0069	\$ 36,327	
10	Ruth Blvd	1	0.66	I/S	With rotations, runs every other day				
10	Ruth Blvd	3	0.61	I/S	With rotations, runs every other day - monitor Now piped to GAC				
10	South Spur	1	1.40	I/S	Blended with Well #3, last blend was 0.72	6/8/2021			
10	South Spur	2	1.38	O/S	Remain O/S - Try to blend if we need more supply				
10	South Spur	3	0.75	I/S	Seasonal GAC - monitor				
11	Carlson Ave	5	2.16	O/S	Remain O/S - Retire & replace w/ Old Dock Rd #2; drilling of Old Dock #2 completed		040-20-0009, 040-20-00-0010	\$ 598,311	NONE
11	Carlson Ave	6	3.11	O/S	Remain O/S - Retire & replace w/ Old Dock Rd #2; drilling of Old Dock #2 completed		040-20-0009, 040-20-00-0010	\$ 598,311	NONE
11	Carlson Ave	7	0.82	I/S	Monitor - Piped and assigned to existing GAC 06/04/21 GAC Eff - 0.74		195-21-00-0074	\$ 27,414	2
11	Cornell Dr	2	0.80	I/S	Rotates Call-1, Call-2 daily, so only runs every other day				
11	Kings Park Rd	2A	0.53	I/S	Rotates Call-1, Call-2 daily, so only runs every other day				
11	Lawrence Rd	1A	0.90	I/S	With rotations, runs every other day - monitor				2
11	Lawrence Rd	3	3.73	O/S	O/S pending AOP. New GACs for AOP delivered and piped. Blended w/ Well #1A and #3 - Monitor - Last blend was 0.8. AOP mini-pilot complete. New GAC delivered & piped. O/S for winter.	9/17/2020			2
11	Lawrence Rd	4	1.27	O/S					1
11	Old Dock Rd	1	0.54*	I/S	Locked in Call-2, Mini AOP Pilot complete, *GAC Eff sample				2
11	Old Dock Rd	2							
11	Wicks Rd	1	0.69	I/S	With rotations, runs every other day - monitor				
12	Commercial Blvd	2	1.13	O/S	Well failed and retired, have permit for Well #2A; drill in Fall '21. GAC piping relocated to allow for building expansion		195-21-00-0060	\$ 45,583	2
12	Commercial Blvd	3	5.37	I/S	AOP completed - Station Treated sample is Negative	3/1/2018	055-14-00-0016	\$ 909,474	IN SERVICE
12	Eastwood Blvd	2A	2.11	O/S	Leave O/S				
12	Eastwood Blvd	3	0.52	I/S	Monitor. On GAC. First time over 1/2 MCL 06/21				
12	Falcon Dr	1	0.63	I/S	Lock in Call-2. Mini AOP Pilot complete, piping relocated; GAC building expansion complete. GAC Vessels rebuilt.		195-20-00-0067, 195-21-00-0057	\$ 217,314	1
12	Falcon Dr	2A	1.44	O/S	Throttled to 500 gpm, Blended w/ #1. , Mini AOP Pilot complete, piping relocated, GAC building expansion complete		195-20-00-0067, 195-21-00-0057	\$ 217,314	1
12	Falcon Dr	2B	1.53	O/S	Blended with Well #1. Mini AOP pilot complete, piping relocated, GAC building expansion complete		195-20-00-0067, 195-21-00-0057	\$ 217,314	1

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
12	Lincoln	2	0.49	I/S	Monitor, throttled to 1,200 gpm and on GAC				
12	Oval Dr	4	0.57	I/S	Monitor, at or below 1/2 MCL				
12	Peconic St	1	2.60	O/S	Blended. Blend is still over 1.0 Leave O/S	8/15/2016			2
12	Peconic St	2	0.89	I/S	Limited run time in winter				2
12	Third Ave	3	0.72	I/S	Blended. Seasonal GAC. Last blend was 0.31. Mini AOP complete	4/1/2019			2
12	Wheeler	6	0.91	I/S	On GAC. Blend with any other well. Last blend was 0.22	4/13/2021			
15	Boyle Rd N	1A	1.21	O/S	Leave O/S				
15	Boyle Rd PJ	1	0.55	I/S	Monitor				
15	Boyle Rd PJ	2	0.45	I/S	Nitrate Blend - monitor	7/31/2007			
15	Boyle Rd PJ	3	0.55	I/S	Nitrate Blend - monitor	7/31/2007			
15	College Rd	3	1.10	I/S	Blended w/ #4 - monitor - Last blend was 0.51	10/27/2016			
15	Daniel Webster	2A	0.50	O/S	Blended - monitor. Last blend was 0.13	8/23/2016			
15	Hawkins Rd	2	0.64	I/S	Rotates Call-1, Call-2 daily, so only runs every other day				
15	Horseblock Rd	1	0.78	I/S	Nitrate Blend - monitor. Last blend was 0.47	5/12/2013			
15	Jayne Blvd	1	0.47	I/S	Nitrate blend - monitor. Last blend was 0.28	6/21/2007			
15	Jayne Blvd	2A	1.02*	I/S	Blend with #5 and #1. Seasonal GAC. *GAC Effluent sample. Last blend 0.76	9/17/2020			2
15	Jayne Blvd	3	0.86	I/S	Blended w/#4 - monitor - Last blend was 0.47	2/19/2019			2
15	Kayron Dr	1A	0.48	I/S	Rotates Call-1, Call-2 daily, so only runs every other day				
15	N Washington	1	0.80	I/S	Short timeclock for winter				
15	Oxhead Rd	2A	0.76	O/S	Blended w/ #3 - monitor - Last blend was 0.60	8/25/2016			
26	Montauk St Blvd	1A	ND	I/S	Blended. Seasonal. Level tends to increase with pumping.	4/1/2016			
60	Gazza Blvd	2	3.62	O/S	Remain O/S. Additional supply to zone from Zone 12 now.				
60	Smith St Ef	1	22.30	O/S	AOP design approved 12/10/20, to be awarded at September 2021 meeting; Mini AOP complete		190-19-00-0004, 195-21-00-0071	\$ 1,349,309	1
	Various				Electrical Service Upgrades for AOP		195-20-00-0072	\$ 562,630	
	Various				Electrical Service Upgrades for AOP		195-21-00-0058	\$ 851,784	
	Bulk Storage, pads						195-22-00-0054	\$ 452,905	
	Various				Mini-AOP by-products pilot testing project		195-20-00-0051	\$ 220,000	
Total Funds Authorized to date for 1,D related work								\$ 12,840,324	

Actions typed in RED have occurred in the past 30 days.

Wells highlighted in green are being treated to remove contaminant