## SUFFOLK COUNTY WATER AUTHORITY

# **Production Control - Bay Shore, New York**

### INTER-OFFICE CORRESPONDENCE

**DATE:** February 23, 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 January 20, 2021 to date.

#### PFC's

Since the last update, the Construction Maintenance department has started the installation of yard piping for several new GAC systems. These include two (2) systems at Plymouth St (Deer Park), one at Edgewood Ave (St. James), and one at Lincoln Ave (Holbrook). CM works on these sites when not addressing water main breaks and all the new systems will be complete before spring. When spring arrives, Production Control will begin the process to load them with carbon and place them in service. Note that placing them in service now would risk freezing the vessels and piping. The Civil Engineering department continues with clearing and concrete pad work for future systems. The GAC vessels delivered to Edgewood Ave (St. James) in December have now been placed inside the existing GAC building.

We intend on having all the new systems in service before the peak demand season of 2021.

#### 1,4-dioxane

SCWA received verbal approval from NYSDOH for the Smith St East Farmingdale AOP system on December 10, 2020. Final revisions are being made to contract piping layouts. Upon completion of

the layout this month, plans and specifications must be submitted for written approval. This contract should be out for bid in the next several weeks.

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 has begun at sites such as Flower Hill Rd in Huntington where the electrical service and transformer were upgraded for the larger electric requirements and SCWA Electricians are now rebuilding the entire control room to modernize equipment and make room for the additional AOP equipment. 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 bids received are currently under review by the Engineering and Legal Departments and a recommendation for award will be ready for the March 2021 Board meeting or earlier.

Two contracts have been 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. Engineering has completed the design review process for both contractors covering all 7 locations. Those building additions have now been released to the manufacturer for fabrication. Anchor bolt drawings have also been provided which will allow the concrete foundation work to commence upon final approval. Concrete designs have been approved for Hollywood, McKay, Waterside, and Flower Hill Rd. Metal building additions have been fabricated and delivered for McKay, Waterside, and Hollywood. Foundation work at Flower Hill will commence on March 1<sup>st</sup>. Foundation work at Hollywood and McKay Rd has begun.

The AOP pilot work needed to obtain NYSDOH approval for the use of AOP at any of our sites continues. Production Control staff utilizing our mini-AOP reactor pilot trailer have completed pilot testing of twenty-three (23) wells. Since the last update, pilot work has been completed on Church St (Northport) #1. Pilot testing on Church St (Northport) #2 is in progress. Analysis of the data obtained to date has revealed no surprises in terms of by-product formation resulting from the AOP process.

Engineering has drilled the new well Old Dock Rd #2 (Kings Park), has installed the casing and set the screen. This well is undergoing water quality testing now and should be complete in the next week or two. 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 have their run time managed to maintain the lower levels.

Similar strategies apply to 1,4-dioxane management. We continue to add blending where we can or have removed wells from service when we have an analytical result that shows an exceedance of the MCL. This is manageable while the seasonal water demand is low. We have recently completed carbon exchanges on a few key 1,4-dioxane wells so that these wells can remain in service on an emergency use only basis. Carbon does remove 1,4-dioxane, not well, but it does for a short period of time. Therefore, with new carbon, a few wells will be available in the event of an emergency. We anticipate that we will have to do the same at several other wells where the levels of 1,4 Dioxane are just under the MCL but the carbon is no longer removing 1,4-dioxane and the GAC effluent level is over the MCL.

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

Cc: J. Pokorny

K. Durk

T. Hopkins

PFOA / PFOS MCL = 10 ppt

						Date Treatment			
			Recent levels	Current		I/S or Blend		Auth	orization(s)
Zone	Station	Well	(PFOA/PFOS)	Status	Action plan (Planning window = 4 months)	Started	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	12/10	O/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				
					Received DHS approval to treat with resin (ion exchange) in portable GAC system; first				
1	Foxcroft Ln	1A	4.7/23	O/S	approval of resin for PFC's in NY. Outdoors - seasonal	5/30/2019	055-18-00-0019	\$	165,590
1	Foxcroft Ln	2	4.9/6.8	O/S	Blended inside #1A - Seasonal well, #1A seasonal GAC	7/18/2019			
1	Station Rd	1A	11/50	O/S	On outdoor GAC - Seasonal	3/14/2020	055-19-00-0015	\$	417,765
10	Ruth Blvd	3	ND/9	I/S	Piped to existing GAC. Currently < 1/2 MCL, monitor		055-19-00-0018	\$	23,057
12	Carrol St	2	4.3/2.4	I/S	Blended - no further action planned	8/18/2016			•
12	Hallock Ave	2	ND/6.8	I/S	·				
12	Hallock Ave	3	ND/9.7	ı/S	With rotations, runs every other day - GAC project authorized		195-21-00-0061	\$	758,862
12	Liberty St	3	6.9/3.5	ı/S	With rotations, runs every other day - no further action planned				,
12	Lincoln Ave	2	ND/11	O/S	Blended; New GAC vessels delivered. Yard piping started by CM	5/21/2020	195-21-00-0065	\$	549,854
12	Morris Ave	1	ND/ND	I/S	Monitor	, ,	195-20-00-0059	\$	576,048
12	Morris Ave	4	4/19	O/S	On outdoor GAC - Seasonal	6/28/2020	195-20-00-0054	\$	118,797
			.,	-,-	With rotations, runs every other day - new GAC vessels delivered. Removed from	., .,		T	
12	Pierson St	1	10/4.3	O/S	service due to increased PFOA level.		195-21-00-0068	\$	639,167
12	Pierson St	2	4.9/3.3	I/S	With rotations, runs every other day - GAC delivered 12/30/20		195-21-00-0068	\$	639,167
		_	, 55	., 5	Blended, Locked in Call-2 - Last blend was 2.8/5.6. New GAC vessels delivered 12/9/20.		133 11 00 0000	Ψ	000,207
12	Plymouth St	1A	8.2/13.0	I/S	Yard piping started by CM.	9/17/2020	195-21-00-0062	\$	634,044
	i iyinidatii de		0.2/15.0	1,5	With rotations, runs every other day - New GAC Vessels delivered. Yard piping started	3, 17, 2020	133 22 00 0002	7	031,011
12	Plymouth St	2A	4.6/9.6	I/S	by CM		195-21-00-0062	\$	634,044
12	r tymouth st	2/1	4.0/ 3.0	1/3			195-20-00-0056,	7	034,044
12	Sy Ct	3	14/6.3	O/S	On outdoor GAC - Seasonal	10/28/2020	195-20-00-0061	\$	724,517
12	Townline Rd Nes	1A	9/14	1/S	On GAC	2/10/2020	055-19-00-0014	\$	100,412
12	TOWTHITE NO IVES	1/1	3/ 14	1/3	Relocated Model 10 from Pierson St installed in existing building. PC in process of final	2/10/2020	033 13 00 0014	7	100,412
12	Wheeler Rd	3	18/32	O/S	piping connections		195-21-00-0063	\$	75,433
12	Wheeler Rd	5	18/32	I/S	On GAC	9/6/2019	055-19-00-0017	\$	15,888
15	Bicycle Path	1	ND/ND	I/S	Blended for Mn for many years. Monitor	3/0/2013	055-19-00-0017	۲	13,888
15	Boyle Rd South	1	4.8/3.4	1/S	Monitor				
15	Dare Rd	2	3.3/3.8	1/S	No action planned, continue to monitor				
13	Date Nu		3.3/3.0	1/3	Blended for Nitrates - New GAC vessels installed in existing building. CM mobilizing to				
15	Edgawood CI	1A	12.0/5.6	I/S	complete yard piping.	10/16/2017	195-21-00-0064	\$	579,263
15	Edgewood SJ	IA	12.0/5.0	1/3	complete yard piping.	10/10/2017	055-19-00-0021,	Ş	579,203
15	Fairmount Madfard	3	22/22	0/5	On outdoor GAC - Seasonal	5/19/2020	195-20-00-0052	۲	600 507
15 15	Fairmount Medford Flint Ln	1	22/33	0/S	New GAC will load in Spring	3/13/2020	195-20-00-0052	\$	609,567
			4.8/2.9	I/S					157,860
15	Flint Ln	2	5.4/6.0	O/S	New GAC will load in Spring		195-20-00-0063	\$	1,051,739
15	Hawkins Rd	3	2.7/5.2	I/S	Continue to monitor	E /12 /2012			
15	Horseblock Rd	1	7.8/2.7	I/S	Already blended for nitrates. GAC installation planned	5/12/2013	055 47 00 004 4	<u> </u>	265 424
15	Oxhead Rd	1A	3.8/110.0	O/S	On outdoor GAC - Seasonal	6/7/2017	055-17-00-0014	\$	265,494

						Date Treatment			
			Recent levels	Current		I/S or Blend		Autho	rization(s)
Zone	Station	Well	(PFOA/PFOS)	Status	Action plan (Planning window = 4 months)	Started	Authorization(s)	Value to Date (\$)	
15	Oxhead Rd	4	ND/4.4	O/S	Blended inside #1A	7/1/2017			
							195-20-00-0058,		
15	Stem Ln	1	6.2/23	O/S	On outdoor GAC - Seasonal	8/6/2020	195-20-00-0062	\$	672,080
15	Strathmore Ct	3	6.3/6.2	I/S	With rotations, runs every third day - no further action planned				
20	Gus Guerrera	1	ND/23.0	O/S	On outdoor GAC - Seasonal	7/27/2016	055-17-00-0016	\$	182,842
20	Gus Guerrera	2	ND/ND	I/S	Removed from GAC due to decrease in levels 11/2020	7/11/2017			
							055-17-00-0015,		
20	Meetinghouse Rd	12A	47.0/150.0	I/S	On GAC	6/10/2016	055-18-00-0015	\$	788,844
20	Meetinghouse Rd	14	27.0/220.0	I/S	Same as above	6/10/2016			
20	Meetinghouse Rd	17	150.0/1,510.0	I/S	Same as above	6/10/2016			
20	Meetinghouse Rd	19	96.0/440.0	I/S	Same as above	6/10/2016			
20	Meetinghouse Rd	22	3.7/94.0	I/S	On GAC	7/27/2016	055-17-00-0013	\$	29,528
20	Old Country Rd	1A	2.1/5.1	Blended	Blended with #3 and throttled	7/30/2007			
							055-19-00-0020,		
20	Old Country Rd	4	10/48	O/S	On outdoor GAC - Seasonal	6/26/2020	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	O/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			
							195-20-00-0055,		
32	County Rd 31	1	ND/22	O/S	On outdoor GAC - Seasonal	8/19/2020	195-20-00-0060	\$	691,008

Total Funds Authorized to date for PFAS related work								
Total Funds Authorized to date for Emerging Containment Work	\$	23,136,397						

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

Wells highlighted in green are being treated to remove contaminant

1,4 Dioxane M

MCL = 1.0 ppb

						Date Treatment		
			Recent levels	Current		I/S or Blend		Authorization(s)
Zone	Station	Well	HOP	Status	Action plan (Planning window = 4 months)	Started	Authorization(s)	Value to Date (\$)
1	Albany Ave	6	0.70	O/S	Blended w/ 4A - Last blend 0.28	8/23/2016		(1)
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	Great Neck Rd	1	3.36	O/S	2 well blend was below 1.0. Blended	10/31/2016		
1	Harvest Ln	1A	1.52	O/S	2021 will be a 2 well blend. Last blend 0.91	10/31/2017		
					Lock in Fire Call to minimize run time. One of two well fields in Zone. Mini AOP pilot		195-20-00-0068,	
5	Hollywood Pl	1	0.81	I/S	complete. Blow-off basin modified, GAC Bldg addition started.		195-21-00-0052	\$ 518,835
					2 well blend was still over 1.0, Stay O/S; mini-AOP pilot complete; site work, piping has been		195-20-00-0066,	
6	Broadway	1A	1.73	O/S	relocated		195-21-00-0053	\$ 200,023
	,				Mini-AOP pilot complete; site work, piping has been relocated; *GAC Effluent sample. Well		195-20-00-0066,	,
6	Broadway	2	1.09*	I/S	locked in lower call to minimize run time, 01/27/21.		195-21-00-0053	\$ 200,023
	,						195-20-00-0066,	,
6	Broadway	3	0.62	I/S	Monitor; mini-AOP pilot complete; site work, piping has been relocated		195-21-00-0053	\$ 200,023
	,				Runs blended with two other wells, last on - first off. Mini AOP pilot complete; site work;			,
					piping has been relocated; building expansion project; PSE&G service upgrade complete,		195-20-00-0020,	
6	Flowerhill Rd	1	2.82	O/S	Control Room elec upgrade commenced and expected complete by April '21		195-21-00-0051	\$ 168,625
-					New carbon 09/20, Locked in Fire Call, Emergency use only. Mini AOP pilot complete; site			,
					work; piping has been relocated; building expansion project; PSE&G service upgrade		195-20-00-0020,	
6	Flowerhill Rd	2	2.44	O/S	complete, Control Room elec upgrade commenced and expected complete by April '21		195-21-00-0051	\$ 168,625
				-,-	New carbon 10/20, Locked in Call-4; mini AOP pilot complete; site work; piping has been			
					relocated; building expansion project; PSE&G service upgrade complete, Control Room elec		195-20-00-0020,	
6	Flowerhill Rd	3	0.82	O/S	upgrade commenced and expected complete by April '21		195-21-00-0051	\$ 168,625
6	Jennings Rd	1	0.57	I/S	With rotations, runs every other day			
6	Jennings Rd	3	0.69	I/S	With rotations, runs every other day			
6	Mayfair Dr	1	0.54*	I/S	With rotations, runs every other day. *GAC Effluent sample			
6	Mayfair Dr	2	0.87*	I/S	With rotations, runs every other day. *GAC Effluent sample			
6	Woodchck Hllw	1A	1.37*	0/S	Blended with Wells #2 and #3. *GAC Eff sample	9/25/2020		
	W O O derick Till W	1/1	1.57	0/3	Steriod With Webs 1/2 and 1/3. Site 211 sample	3/23/2020	195-20-00-0070,	
7	McKay Rd	1	1.68	O/S	Mini AOP pilot complete; GAC building addition started		195-21-00-0055	\$ 465,219
9	Douglas Ave	1	2.73	O/S	Mini AOP pilot complete			ψ .55,225
9	Douglas Ave	2	1.20	0/5	Mini AOP pilot complete			
9	Middleville	1	1.18	0/5	Blended - Mini AOP pilot complete; site work project authorized; new GAC vessels delivered.		195-21-00-0059	\$ 159,693
9	Middleville	2	0.88	I/S	Mini AOP pilot complete		195-21-00-0059	\$ 159,693
	iviidaleviile	_	0.00	1/3	Thin 7.67 pilot complete		195-20-00-0065,	155,055
9	Sunken Meadow	1	0.80	I/S	Level has dropped significantly, monitor, piping relocated - Mini AOP pilot complete		195-21-00-0056	\$ 234,602
	Sunken weadow	_	0.80	1/3	Level has dropped significantly, monitor, piping relocated with Not phot complete		195-20-00-0065,	254,002
9	Sunken Meadow	2	0.72	I/S	Monitor; piping relocated - Mini AOP pilot complete		195-21-00-0056	\$ 234,602
	Sunken Wieddow	_	0.72	1,3	Can change carbon for emergency use - Mini AOP pilot complete; blow-off basin complete;		195-20-00-0069,	254,002
9	Waterside Rd	2	1.08	O/S	GAC Bldg expansion material delivered.		195-21-00-0054	\$ 608,715
9	Wayne Ct	1	0.31*	1/S	Lock in Call-2. New carbon 11/10/20; Mini AOP pilot complete; *GAC Effluent sample		155 21 00 0054	000,713
10	Church St NPT	1	1.20	1/5	Nitrate Blend w/ Washington - last blend 0.49; mini AOP pilot complete	7/25/2007		
10		2	1.09	1/S	Nitrate Blend w/ Washington - last blend 0.59; mini AOP pilot to in progress	8/22/2007		
10	Church St NPT	2	1.09	1/3	Initiate piena w/ washington - last piena 0.55, mini AOP phot in progress	0/22/2007	1	

			Decemble levels	Command		Date Treatment		Authorization(s)	
7000	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	I/S or Blend Started	Authorization(s)	Value to Date (\$	
10	Reservoir Ave	1A	0.78*	I/S	Nitrate Blend w/ Washington - *GAC Effluent Sample; site work project for AOP	1/22/2016	195-21-00-0069		36,327
10	Reservoir Ave	2	0.55*	1/S	Nitrate Blend w/ Washington - *GAC Effluent Sample; site work project for AOP	5/25/2012	195-21-00-0069	-	36,327
10	Ruth Blvd	1	0.66*	0/S	With rotations, runs every other day - *GAC Effluent Sample	3/23/2012	155 21 00 0005	٦	30,327
10	Ruth Blvd	3	0.65	I/S	With rotations, runs every other day - monitor Now piped to GAC				
10	South Spur	1	1.21*	0/S	Blend in 2021. Leave O/S, change carbon if needed. *GAC Effluent sample				
10	South Spur	2	1.38	0/3 O/S	Remain O/S - Try to blend if we need more supply				
10	South Spur	3	0.66	0/s 0/s	Seasonal GAC - monitor				
10	South Spui		0.00	0/3	Remain O/S - Long term, retire and replace w/ Old Dock Rd #2; drilling of Old Dock #2 has		040-20-0009, 040-		
11	Carlson Ave	5	2.16	O/S	commenced		20-00-0010		98,311
11	Carison Ave	,	2.10	0/3	Remain O/S - Long term, retire and replace w/ Old Dock Rd #2; drilling of Old Dock #2 has		040-20-0009, 040-	-	50,511
11	Carlson Ave	6	3.11	O/S	commenced		20-00-0010		98,311
11	Cornell Dr	2	0.80	I/S	Rotates Call-1, Call-2 daily, so only runs every other day		20 00 0010	, ,	70,311
11	Kings Park Rd	2A	0.61	1/S	Rotates Call-1, Call-2 daily, so only runs every other day				
11	Lawrence Rd	1A	0.91	1/S	With rotations, runs every other day - monitor				
11	Lawrence Rd	3	3.73	0/S	O/S pending AOP		195-21-00-0066	\$ 59	94,459
11	Lawrence Rd	4	1.04	O/S	Blended w/ Well #1A and #3 - Monitor - Last blend was 0.81	9/17/2020	195-21-00-0066	-	94,459
11	Old Dock Rd	1	0.97*	O/S	Locked in Call-2, coming out of service, *GAC Eff sample, Mini AOP Pilot complete	3/17/2020	133 21 00 0000	, ,	74,433
11	Wicks Rd	1	0.76	I/S	With rotations, runs every other day - monitor				
- 11	WICKS NO		0.70	1/3	Site work authorized, Well failed and retired, have permit for Well #2A; contract for				
12	Commercial Blvd	2	1.13	O/S	replacement well on street for Feb '21 bid		195-21-00-0060	\$ 4	45,583
12	Commercial Blvd	3	5.37	I/S	AOP completed - Station Treated sample is Negative	3/1/2018	055-14-00-0016		09,474
12	Eastwood Blvd	2A	2.11	O/S	Leave O/S	5/ 2/ 2020	000 11 00 0010	γ σ.	
		_, ,		0,0			105 30 00 0067		
42	F 1		0.76	0 /6	Lock in Call-2. Mini AOP Pilot complete, piping relocated, building expansion awarded, bldg		195-20-00-0067,		47.244
12	Falcon Dr	1	0.76	O/S	design submittals in. GAC Vessels being rebuilt.		195-21-00-0057	\$ 21	17,314
					Throttled to 500 gpm, Blended w/ #1. , Mini AOP Pilot complete, piping relocated, building		195-20-00-0067,		
12	Falcon Dr	2A	1.44	O/S	expansion awarded, bldg design submittals in		195-21-00-0057	\$ 21	17,314
					Leave O/S pending AOP. Mini AOP pilot complete, piping relocated, building expansion		195-20-00-0067,		
12	Falcon Dr	2B	1.53	O/S	awarded, bldg design submittals in		195-21-00-0057	\$ 21	17,314
12	Oval Dr	4	0.57	I/S	Blend removed - Monitor, at or below 1/2 MCL			'	, =
12	Peconic St	1	1.68	O/S	Blended. Blend is still over 1.0 Leave O/S	8/15/2016			
12	Peconic St	2	0.78	I/S	Limited run time in winter	, ,			
12	Third Ave	3	0.87	O/S	Blended. Seasonal GAC. Last blend was 0.31. Mini AOP complete	4/1/2019			
	Boyle Rd N	1A	1.21	O/S	Leave O/S	. ,			
	Boyle Rd PJ	2	0.46	O/S	Nitrate Blend - monitor; O/S for pump failure	7/31/2007			
	Boyle Rd PJ	3	0.49	I/S	Nitrate Blend - monitor	7/31/2007			
	College Rd	3	1.19	I/S	Blended w/ #4 - monitor - Last blend was 0.56	10/27/2016			
	Daniel Webster	2A	0.53	O/S	Blended - monitor. Last blend was 0.23	8/23/2016			
	Hawkins Rd	2	0.60	ı/S	Rotates Call-1, Call-2 daily, so only runs every other day				
	Horseblock Rd	1	0.78	ı/S	Nitrate Blend - monitor. Last blend was 0.43	5/12/2013	195-21-00-0067	\$ 72	24,023
	Jayne Blvd	1	0.47*	I/S	Nitrate blend - monitor. Last blend was 0.30, *GAC Effluent sample	6/21/2007			
	Jayne Blvd	2A	1.02	O/S	Blend with #5 and #1 in 2021. Seasonal GAC.				
15	Jayne Blvd	3	1.10	I/S	Blended w/#4 - monitor - Last blend was 0.49	2/19/2019			
15	Kayron Dr	1A	0.45	I/S	Rotates Call-1, Call-2 daily, so only runs every other day				
	N Washington	1	0.75	I/S	Short timeclock for winter				
15	Oxhead Rd	2A	0.96	O/S	Blended w/ #3 - monitor - Last blend was 0.72	8/25/2016			
	Montauk St Blvd	1A	0.68	O/S	Blended. Last blend was 0.45	4/1/2016			

						Date Treatment			
			Recent levels	Current		I/S or Blend		Aut	horization(s)
Zone	Station	Well	НОР	Status	Action plan (Planning window = 4 months)	Started	Authorization(s)	Valu	e to Date (\$)
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, going out to bid soon; Mini AOP complete		190-19-00-0004	\$	1,249,309
	Various				Electrical Service Upgrades for AOP		195-20-00-0072	\$	562,630
	Various				Electrical Service Upgrades for AOP		195-21-00-0058	\$	851,784
	Various				Mini-AOP by-products pilot testing project		195-20-00-0051	\$	220,000
Total Funds Authorized to date for 1,D related work								\$	11,160,244

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

Wells highlighted in green are being treated to remove contaminant