9 January 2023

Mr. Scott Sokolowski
Remedial Project Manager
Naval Facilities Engineering Systems Command, Mid-Atlantic
9324 Virginia Avenue, Building Z-144
Norfolk, VA 23511-3095

Subject: **December 2022 Monthly Operating Report**
Full Scale Liquid-Phase Granular Activated Carbon Treatment System
Liberty New York Water, Seamans Neck Road Water Plant
NWIRP Bethpage, New York
Contract No. N40085-16-D-2288, Task Order N4008518F5125

Dear Mr. Sokolowski,

The Full Scale Liquid-Phase Granulated Activated Carbon (GAC) Treatment System is located at the Liberty New York Water (LNYW) Seamans Neck Road Water Plant in Levittown, NY. The GAC System was installed at the effluent of the potable water plant and consists of six GAC vessels operating in parallel to remove low levels of trichloroethene (TCE) from Well No. 3S and Well No. 4S. After processing through the GAC units, the water is treated with sodium hypochlorite and sodium tripolyphosphate before distribution. Startup of the GAC Treatment System occurred on 8 January 2015 by CH2MHill. KOMAN Government Solutions, LLC (KGS) began operation and maintenance (O&M) activities in March 2015.

In May 2018, production Well No. 3S was decommissioned and has been replaced with a new production well designated as Well No. 3A. Well No. 4S is normally in operation during the entire month, while well No. 3A is operated infrequently, typically during the periods of higher water demand.

This report documents the routine operation and maintenance of the GAC System performed during the month of December 2022. **Attachment 1** presents the field logs detailing system operating data as recorded during the month. These readings include flow rate and total flows of the overall GAC System and each GAC unit, pressures across the GAC System, effluent chlorine residual and pH values, chemical usage levels of sodium hypochlorite and sodium tripolyphosphate for each chemical tank, and chemical metering pump settings and pressures.

Electricity use is not monitored and recorded using the on-site Leviton Series 2000 Multiple Meter Unit. Summary energy consumption reports are provided separately to the Navy Remedial Project Manager.

A summary of the system operating data recorded in December 2022 is presented below in **Table 1**.

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Table 1 - ***System Operating Data for December 2022***

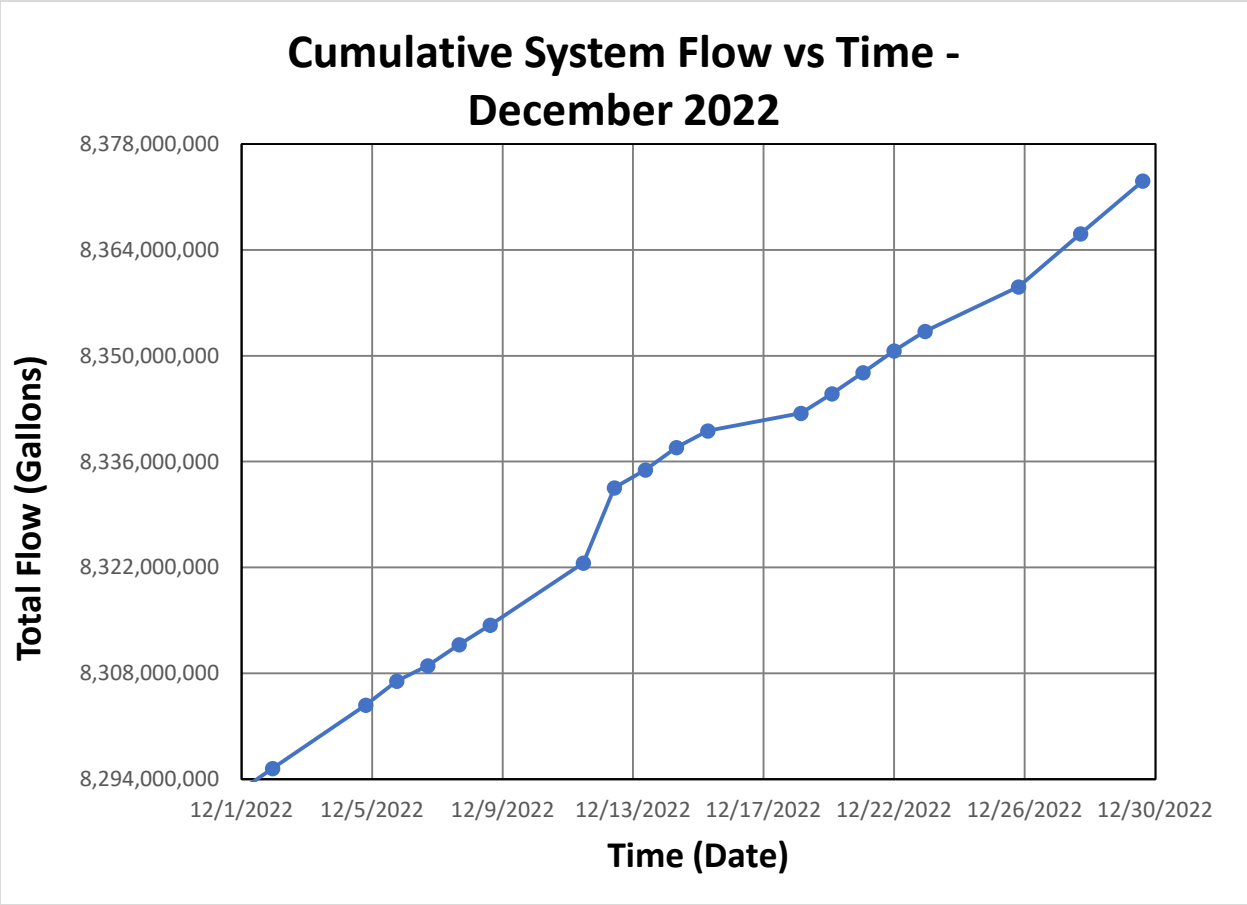
Date	Total Flow	Flow Rate	Influent Pressure	Effluent Pressure	Differential Pressure	Effluent Chlorine Residual	Effluent pH
	(Gallons)	(GPM)	(PSI)	(PSI)	(PSI)	(mg/L)[1]	(SU)[1]
12/1/2022	8,292,594,000	1,850	78	71	6.7	1.66 read 1.71 manual	6.80 read
12/2/2022	8,295,420,000	1,950	74	68	6.6	1.72 read 1.83 manual	7.00 read
12/5/2022	8,303,818,000	1,950	78	68	9.8	1.86 read 1.93 manual	7.15 read
12/6/2022	8,307,002,000	1,900	81	70	9.9	1.78 read 1.84 manual	7.05 read
12/7/2022	8,309,019,000	1,700	58	50	8.0	1.80 read 1.91 manual	6.85 read
12/8/2022	8,311,814,000	1,800	60	50	8.2	1.93 read 2.04 manual	6.95 read
12/9/2022	8,314,387,000	1,850	78	74	4.2	1.60 read 1.71 manual	6.76 read
12/12/2022	8,322,585,000	1,850	72	67	5.7	1.75 read 1.83 manual	6.57 read
12/13/2022	8,332,561,000	1,900	68	64	5.2	1.83 read 1.92 manual	6.67 read
12/14/2022	8,334,915,000	2,050	70	67	4.0	1.47 read 1.52 manual	6.46 read
12/15/2022	8,337,901,000	2,000	74	71	4.0	1.63 read 1.72 manual	6.56 read
12/16/2022	8,340,069,000	2,000	70	66	4.1	1.62 read 1.72 manual	7.05 read
12/19/2022	8,342,413,000	1,850	83	80	3.8	1.65 read 1.74 manual	7.07 read
12/20/2022	8,344,981,000	2,000	75	71	4.1	1.67 read 1.75 manual	--
12/21/2022	8,347,804,000	1,950	78	74	4.0	1.73 read 1.79 manual	7.07 read
12/22/2022	8,350,672,000	2,050	63	60	4.7	1.53 read 1.63 manual	6.51 read
12/23/2022	8,353,232,000	1,850	83	78	4.2	1.73 read -- manual	6.63 read
12/26/2022	8,359,116,000	1,950	79	75	4.6	1.81 read 1.87 manual	6.67 read
12/28/2022	8,366,132,000	2,100	61	55	5.3	1.67 read 1.74 manual	6.65 read
12/30/2022	8,373,148,000	2,100	67	63	5.1	1.74 read 1.81 manual	6.50 read

(1) Effluent pH and chlorine residual readings are recorded by the in-line pH meter and chlorine analyzer. Chlorine is also checked with a manual chlorine residual meter for comparison, while manual pH is only checked occasionally. Both in-line and manual readings are presented, if collected, as noted above.

Figure 1, below, illustrates the volume of water treated by the GAC System since system startup, with the increment for the month of December 2022. Over 83.2 million gallons of water were

treated in December 2022, bringing the total cumulative volume of water treated since startup to over 8.37 billion gallons.

Figure 1 - ***Volume of Water Treated through Full Scale GAC System (December 2022)***



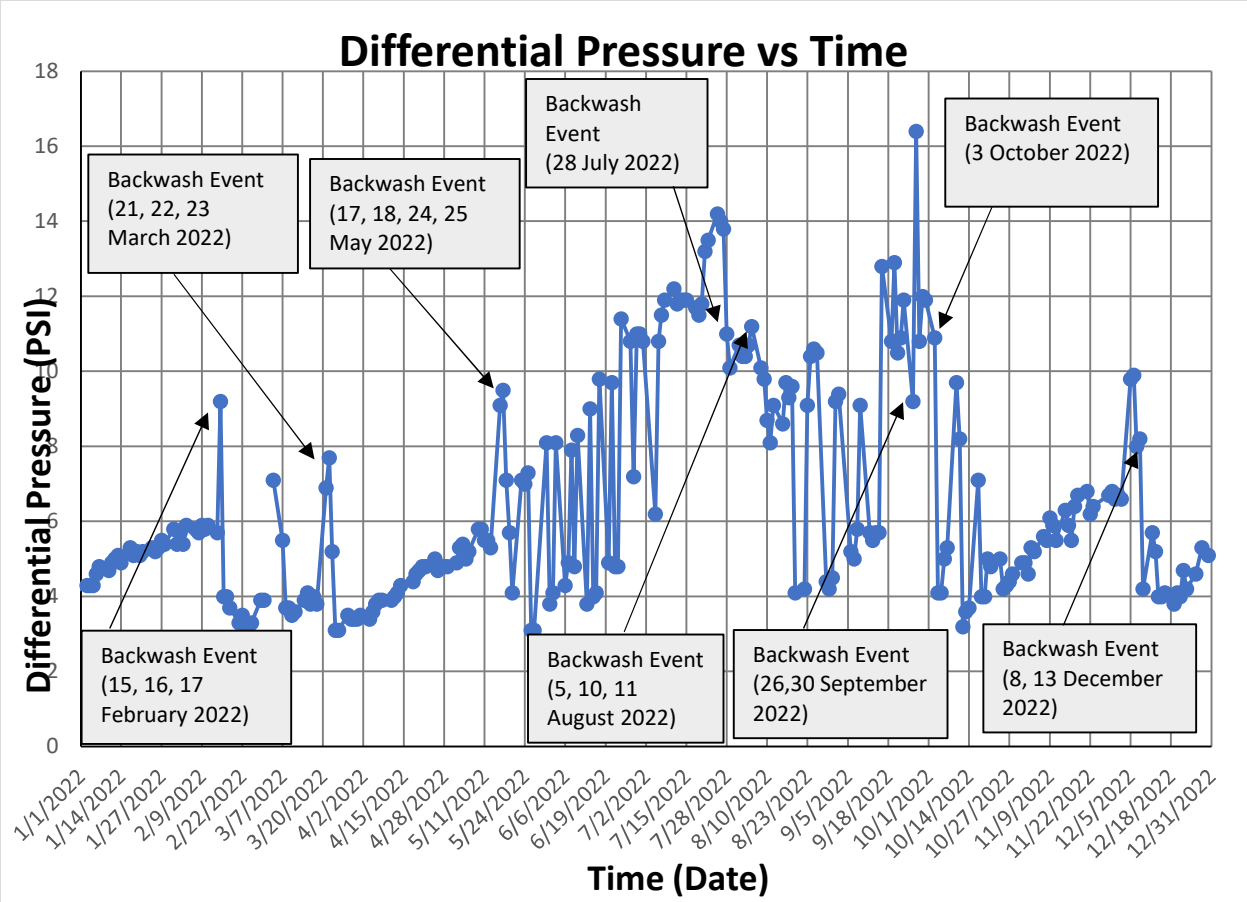
In general, differential pressure increases as the system continues to operate, and decreases after a backwashing event. The increasing trend then continues until the next backwashing event is performed. Also, lower differential pressures are observed during times of low water demand (e.g., typically over the winter months). **Figure 2,** below, depicts the pressure loss across the GAC System and subsequent backwashing dates, from January 2022 through the current reporting period.

Backwashing events during the summer and fall are performed more often because of the higher demand during that time of year. The exchange of carbon in each of the six GAC vessels with virgin coconut shell carbon was completed in August 2020 and the Seamans Neck Road facility is able to operate at full capacity. In support of the 2020 Fourth Quarter microbiological (MIC) sampling conducted in December 2020, it was identified that each vessel required additional backwashing and/or flushing prior to returning to service to address a colored water issue attributable to the remobilization of iron-impacted materials released when flow through the vessels was stopped for a mandatory 12-hour period prior to bacteria sampling, per Nassau

County Department of Health (NCDH) requirements. The additional backwashing/flushing events have been incorporated into the standard process for bacteria sampling.

The facility is operating at full design capacity and pressure loss across the overall GAC System is monitored regularly, and it is expected that backwashing events will occur on a periodic basis as needed. In addition, it is expected that backwashing of each vessel will be conducted following each quarterly bacteria sampling event to address potential colored water issues and to ensure the timely return to service for each vessel.

Figure 2 - S*ystem Differential Pressure vs. Time*



System Maintenance

Routine maintenance of the GAC System during this reporting period consisted of:

- General monitoring of the system flow rates, totalized flows, influent and effluent pressures, differential pressure, chlorine residual, and pH readings.
- Changing paper for the chlorine/pH chart recorder and flow/differential pressure chart recorder on a weekly basis.
- Calibration of the pH meter on a weekly basis.

- Periodic running of Well 3A in place of or concurrently with Well 4S had previously been initiated; Well 3A was operated in place of Well 4S on 06-15 December.

In addition, the following non-routine activities or operation issues occurred during the December 2022 reporting period:

- On 8 December, GACs #500 and #600 were backwashed following the 2022 Fourth Quarter microbiological (MIC) sampling.
- On 13 December, GACs #300 and #400 were backwashed following the 2022 Fourth Quarter microbiological (MIC)sampling.
- On 19 December an alarm on the backup generator identified a failure of the periodic self-testing process.
- On 20 December, GenServe was onsite to change the backup batteries for the generator.

Please contact me at 610-400-0636 or rgregory@komangs.com with any questions or concerns regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

Robert G. Gregory
Project Manager

Cc: C. Shukis - NAVFAC
V. Varricchio - NWIRP Bethpage Facilities Management
R. Kern - LNYW
N. Niola – LNYW
J. Palmer - LNYW
P. Schauble - KGS
R. Hoffmaster – KGS
D. Brayack - Tetra Tech
J. Pelton – NYSDEC
K. Granzen – NYSDEC
M. Travis – NYSDEC

ATTACHMENT 1

O&M LOGS – DECEMBER 2022

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	11.22.2022	11.25.2022	11.28.2022	11.29.2022	11.30.2022	12.1.2022
System Flow Rate	GPM	1875	1950	1950	1900	1750	1850
Total System Flow	Gallons	8351769	8357945	8368224	8371088	8373665	8376466
Well 3 Status	ON OR OFF	OFF	OFF	OFF	OFF	OFF	OFF
Well 4 Status	ON OR OFF	ON	ON	ON	ON	ON	ON
Tank 100 Flow Rate	GPM	225	250	225	225	225	250
Tank 200 Flow Rate	GPM	250	225	250	225	225	250
Tank 300 Flow Rate	GPM	325	350	350	350	300	300
Tank 400 Flow Rate	GPM	325	325	350	300	300	350
Tank 500 Flow Rate	GPM	350	350	350	350	350	350
Tank 600 Flow Rate	GPM	250	300	300	300	250	300
Tank 100 Total Flow	Gallons	45,760,000	46,786,000	47,830,000	48,197,000	48,521,000	48,891,000
Tank 200 Total Flow	Gallons	84,932,000	85,936,000	87,070,000	87,945,000	88,211,000	88,483,000
Tank 300 Total Flow	Gallons	92,040,000	93,465,000	94,894,000	95,938,000	96,193,000	96,310,000
Tank 400 Total Flow	Gallons	76,546,000	78,044,000	79,560,000	80,085,000	80,487,000	81,065,000
Tank 500 Total Flow	Gallons	14,801,000	16,286,000	17,790,000	18,314,000	18,781,000	19,292,000
Tank 600 Total Flow	Gallons	60,014,000	61,281,000	62,564,000	63,007,000	63,189,000	63,806,000
System Influent Pressure	PSI	74	75	73	76	85	78
System Effluent Pressure	PSI	68	67	67	69	79	71
System Differential Pressure	PSI	6.2	6.4	6.7	6.8	6.6	6.7
Chlorine Analyzer: Free Chlorine Residual - Inline	PPM	1.55	1.65	1.71	1.68	1.72	1.66
Effluent Water pH - Inline	Units	7.10	7.0	7.0	7.4	7.15	6.8
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.63	1.71	1.80	1.74	1.83	1.71
Manual pH check (ex: Henna)	Units						

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	11.22.2022	11.25.2022	11.28.2022	11.29.2022	11.30.2022	12.1.2022
Tank 506A Hypochlorite Level	Gallons	141	130	145	105	75	150
Tank 506B Hypochlorite Level	Gallons	143	50	143	130	125	147
Tank 506C Hypochlorite Level	Gallons	150	90	147	147	145	145
Tank 509A Polyphosphate Level	Gallons	79	80	40	100	89	66
Tank 509B Polyphosphate Level	Gallons	160	110	105	85	64	60
Metering Pump 506A: Hypochlorite Output Pressure	PSI						
Metering Pump 506B: Hypochlorite Output Pressure	PSI						
Metering Pump 509A: Phosphate Output Pressure	PSI						
Metering Pump 509B: Phosphate Output Pressure	PSI						
Metering Pump 506A: Stroke/Speed	Units						
Metering Pump 506B: Stroke/Speed	Units						
Metering Pump 509A: Stroke/Speed	Units						
Metering Pump 509B: Stroke/Speed	Units						
Generator Operating Hours	Hours	185.9	185.9	186.4	186.4	186.4	186.4
Main Facility Electric Meter Reading							
Comments (additional tasks performed, maintenance needed, contractors on site, etc.)		cl Delv.		cl Delv.	Eagle Control Replace PH meter		

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	12.02.22	12.05.22	12.06.22	12.07.2022	12.08.2022	12.09.2022
System Flow Rate	GPM	1950	1950	1900	1700	1800	1850
Total System Flow	Gallons	8379292	8387690	8390874	8392891	8395686	8398259
Well 3 Status	ON OR OFF	OFF	OFF	ON	ON	ON	ON
Well 4 Status	ON OR OFF	ON	ON	OFF	OFF	OFF	OFF
Tank 100 Flow Rate	GPM	250	o/c	450	450	450	300
Tank 200 Flow Rate	GPM	250	o/c	400	400	450	300
Tank 300 Flow Rate	GPM	350	450	550	450	500	250
Tank 400 Flow Rate	GPM	350	500	550	450	450	250
Tank 500 Flow Rate	GPM	350	500	o/c	o/c	o/c	400
Tank 600 Flow Rate	GPM	300	400	o/c	o/c	o/c	350
Tank 100 Total Flow	Gallons	49,270,000	49982,000	50,117,000	50,896,000	51,386,000	52,084,000
Tank 200 Total Flow	Gallons	88,680,000	89,106,000	89,327,000	89,936,000	90,411,000	91,077,000
Tank 300 Total Flow	Gallons	96,801,000	98,485,000	98,747,000	99,681,000	00,310,000	00,721,000
Tank 400 Total Flow	Gallons	81,575,000	83,253,000	83,621,000	84,422,000	84,981,000	85,706,000
Tank 500 Total Flow	Gallons	19,798,000	21,569,000	21,873,000	22,114,000	22,114,000	23,404,000
Tank 600 Total Flow	Gallons	64,808,000	65,749,000	66,001,000	66,206,000	66,206,000	66,449,000
System Influent Pressure	PSI	74	78	81	58	60	78
System Effluent Pressure	PSI	68	68	70	50	50	74
System Differential Pressure	PSI	6.6	9.8	9.9	8.0	8.2	4.2
Chlorine Analyzer: Free Chlorine Residual - Inline	PPM	1.72	1.86	1.78	1.80	1.93	1.60
Effluent Water pH - Inline	Units	7.0	7.15	7.05	6.85	6.95	6.76
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.83	1.93	1.84	1.91	2.04	1.71
Manual pH check (ex: Hanna)	Units						

Daily Readings
Granular Activated Carbon Treatment System

Description	Data	12022022	12052022	12062022	12.07.2022	12.08.2022	12.09.22
Tank 500A Hypochlorite Level	Gallons	120	120	145	115	80	55
Tank 500B Hypochlorite Level	Gallons	130	100	147	140	130	130
Tank 500C Hypochlorite Level	Gallons	145	20	150	150	150	150
Tank 500A Polyphosphate Level	Gallons	56	162	138	138	123	162
Tank 500B Polyphosphate Level	Gallons	35	159	160	140	141	121
Metering Pump 505A: Hypochlorite Output Pressure	PSI						
Metering Pump 505B: Hypochlorite Output Pressure	PSI						
Metering Pump 506A: Phosphate Output Pressure	PSI						
Metering Pump 506B: Phosphate Output Pressure	PSI						
Metering Pump 505A: Stroke/Speed	Units						
Metering Pump 505B: Stroke/Speed	Units						
Metering Pump 506A: Stroke/Speed	Units						
Metering Pump 506B: Stroke/Speed	Units						
Generator Operating Hours	Hours	186.8	186.9	186.9	186.8	186.8	187.1
Main Facility Electric Meter Reading							
Comments (additional tasks performed, maintenance needed, contractors on site, etc.)			Normally sampling Bact. GAC's 102 Well 3	Turned off GAC's 506 To Sample 12.07.2022	Sampled GAC's 506 - well 4	Backwashy GAC's 506	GAC's 506 Back in Service

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	12.12.22	12.13.2022	12.14.2022	12.15.2022	12.16.2022	12.19.2022
System Flow Rate	GPM	1850	1900	2050	2000	2000	1850
Total System Flow	Gallons	8406457	8436435	8418787	8421773	8423941	8426285
Well 3 Status	ON OR OFF	ON	ON	ON	ON	OFF	OFF
Well 4 Status	ON OR OFF	OFF	OFF	OFF	OFF	ON	ON
Tank 100 Flow Rate	GPM	350	400	250	250	250	250
Tank 200 Flow Rate	GPM	400	400	250	250	250	250
Tank 300 Flow Rate	GPM	o/c	o/c	350	400	350	350
Tank 400 Flow Rate	GPM	o/c	o/c	400	350	400	350
Tank 500 Flow Rate	GPM	500	500	350	350	350	300
Tank 600 Flow Rate	GPM	450	450	250	250	250	250
Tank 100 Total Flow	Gallons	53 495,000	53,910,000	54,551,000	54,843,000	55,135,000	56,158,000
Tank 200 Total Flow	Gallons	92'342,000	92,949,000	93,319,000	93,628,000	93,945,000	95,022,000
Tank 300 Total Flow	Gallons	01,554,000	01,587,000	01,918,000	02,209,000	02,607,000	04,325,000
Tank 400 Total Flow	Gallons	86,298,000	86,304,000	86,682,000	87,114,000	87,698,000	89,447,000
Tank 500 Total Flow	Gallons	24,321,000	24,988,000	25,818,000	26,329,000	26,741,000	25,309,000
Tank 600 Total Flow	Gallons	67,974,000	68,511,000	69,157,000	69,303,000	69,782,000	71,179,000
System Influent Pressure	PSI	72	68	70	74	70	83
System Effluent Pressure	PSI	67	64	67	71	66	80
System Differential Pressure	PSI	5.7	5.2	4.0	4.0	4.1	3.8
Chlorine Analyzer: Free Chlorine Residual - Inline	PPM	1.75	1.83	1.47	1.63	1.62	1.65
Effluent Water pH - Inline	Units	6.57	6.67	6.46	6.56	7.05	7.07
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.83	1.92	1.52	1.72	1.72	1.74
Manual pH check (ex: Hanna)	Units						

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	12.12.22	12.13.2022	12.14.2022	12.15.2022	12.16.2022	12.19.2022
Tank 606A Hypochlorite Level	Gallons	141	105	141	112	80	151
Tank 606B Hypochlorite Level	Gallons	110	100	143	140	140	20
Tank 606C Hypochlorite Level	Gallons	50	50	150	156	150	155
Tank 606A Polyphosphate Level	Gallons	150	149	160	160	168	77
Tank 606B Polyphosphate Level	Gallons	83	58	80	62	40	140
Metering Pump 608A: Hypochlorite Output Pressure	PSI						
Metering Pump 608B: Hypochlorite Output Pressure	PSI						
Metering Pump 609A: Phosphate Output Pressure	PSI						
Metering Pump 609B: Phosphate Output Pressure	PSI						
Metering Pump 608A: Stroke/Speed	Units						
Metering Pump 608B: Stroke/Speed	Units						
Metering Pump 609A: Stroke/Speed	Units						
Metering Pump 609B: Stroke/Speed	Units						
Generator Operating Hours	Hours	187.1	187.5	187.5	187.5	187.8	187.8
Main Facility Electric Meter Reading							
Comments (additional tasks performed, maintenance needed, contractors on site, etc.)		Sampled GAC 3+4 Bac. Sampled GAC 3+4 INF. EFF Fe	Backwashed GAC's 3+4	CL Delv. Phos. Delv			Alarm on Contactor *

Holiday 12.27.2022

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	12.20.22	12.21.2022	12.22.2022	12.23.2022	12.26.2022	12.28.2022
System Flow Rate	GPM	2000	1950	2050	1850	1950	2100
Total System Flow	Gallons	84285853	84316776	84345441	84371041	84412988	
Well 3 Status	ON OR OFF	OFF	OFF	OFF	OFF	OFF	OFF
Well 4 Status	ON OR OFF	ON	ON	ON	ON	ON	ON
Tank 100 Flow Rate	GPM	250	250	250	225	250	250
Tank 200 Flow Rate	GPM	250	250	250	225	250	250
Tank 300 Flow Rate	GPM	350	350	350	300	350	350
Tank 400 Flow Rate	GPM	400	390	400	350	350	350
Tank 500 Flow Rate	GPM	350	350	350	350	350	350
Tank 600 Flow Rate	GPM	250	250	300	300	300	350
Tank 100 Total Flow	Gallons	56,459,000	56,767,000	57,130,000	57,433,000	58,077,000	58,898,000
Tank 200 Total Flow	Gallons	95,356,000	95,639,000	96,068,000	96,386,000	96,921,000	97,911,000
Tank 300 Total Flow	Gallons	04,795,000	05,111,000	05,796,000	06,245,000	06,803,000	08,703,000
Tank 400 Total Flow	Gallons	90,002,000	90,416,000	91,147,000	91,668,000	92,209,000	93,518,000
Tank 500 Total Flow	Gallons	28,791,000	29,078,000	29,828,000	30,297,000	30,887,000	32,411,000
Tank 600 Total Flow	Gallons	71,572,000	71,792,000	72,417,000	72,790,000	73,311,000	74,487,000
System Influent Pressure	PSI	75	78	63	83	79	61
System Effluent Pressure	PSI	71	74	60	78	75	55
System Differential Pressure	PSI	4.1	4.0	4.7	4.2	4.6	5.3
Chlorine Analyzer: Free Chlorine Residual - Inline	PPM	1.67	1.73	1.53	1.73	1.81	1.67
Effluent Water pH - Inline	Units	—	7.07	6.51	6.63	6.67	6.65
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.95	1.79	1.63		1.87	1.74
Manual pH check (ex: Hanna)	Units						

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	12.20.2022	12.21.22	12.22.22	12.23.2022	12.26.2022	12.28.2022
Tank 878A Hypochlorite Level	Gallons	133	111	153	153	80	153
Tank 878B Hypochlorite Level	Gallons	110	105	155	114	150	151
Tank 878C Hypochlorite Level	Gallons	40	40	156	156	70	155
Tank 879A Polyphosphate Level	Gallons	135	117	148	130	74	110
Tank 879B Polyphosphate Level	Gallons	140	140	140	140	140	140
Metering Pump 880A: Hypochlorite Output Pressure	PSI						
Metering Pump 880B: Hypochlorite Output Pressure	PSI						
Metering Pump 880A: Phosphate Output Pressure	PSI						
Metering Pump 880B: Phosphate Output Pressure	PSI						
Metering Pump 880A: Stroke/Speed	Units						
Metering Pump 880B: Stroke/Speed	Units						
Metering Pump 882A: Stroke/Speed	Units						
Metering Pump 882B: Stroke/Speed	Units						
Generator Operating Hours	Hours	187.8	187.8	187.8	187.8	187.8	187.8
Main Facility Electric Meter Reading							
Comments (additional tasks performed, maintenance needed, contractors on site, etc.)		Phos. Delv. GenServe Change out Bo Hose on generator		CL2 Delv. Phos. Delv.			CL2 Delv. Phos. Delv. Change CL/PH Inline

Daily Readings
Granular Activated Carbon Treatment System

Description	Data	12.30.2025					
System Flow Rate	GPM	2100					
Total System Flow	Gallons	8457020					
Well 3 Status	ON OR OFF	OFF					
Well 4 Status	ON OR OFF	ON					
Tank 100 Flow Rate	GPM	250					
Tank 200 Flow Rate	GPM	250					
Tank 300 Flow Rate	GPM	350					
Tank 400 Flow Rate	GPM	350					
Tank 500 Flow Rate	GPM	350					
Tank 600 Flow Rate	GPM	300					
Tank 100 Total Flow	Gallons	59,860,000					
Tank 200 Total Flow	Gallons	58,891,000					
Tank 300 Total Flow	Gallons	59,829,000					
Tank 400 Total Flow	Gallons	55,586,000					
Tank 500 Total Flow	Gallons	53,951,000					
Tank 600 Total Flow	Gallons	55,728,00					
System Influent Pressure	PSI	67					
System Effluent Pressure	PSI	63					
System Differential Pressure	PSI	5.1					
Chlorine Analyzer: Free Chlorine Residual - Inline	PPM	1.74					
Effluent Water pH - Inline	Units	6.5					
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.81					
Manual pH check (ex: Hanna)	Units						

Daily Readings
Granular Activated Carbon Treatment System

Description	Date	12 30 2024					
Tank [illegible]A Hypochlorite Level	Gallons	90					
Tank [illegible]B Hypochlorite Level	Gallons	150					
Tank [illegible]C Hypochlorite Level	Gallons	70					
Tank [illegible]A Polyphosphate Level	Gallons	135					
Tank [illegible]B Polyphosphate Level	Gallons	140					
Metering Pump [illegible]A: Hypochlorite Output Pressure	PSI						
Metering Pump [illegible]B: Hypochlorite Output Pressure	PSI						
Metering Pump [illegible]A: Phosphate Output Pressure	PSI						
Metering Pump [illegible]B: Phosphate Output Pressure	PSI						
Metering Pump [illegible]A: Stroke/Speed	Units						
Metering Pump [illegible]B: Stroke/Speed	Units						
Metering Pump [illegible]A: Stroke/Speed	Units						
Metering Pump [illegible]B: Stroke/Speed	Units						
Generator Operating Hours	Hours	187.8					
Main Facility Electric Meter Reading							
Comments (additional tasks performed, maintenance needed, contractors on site, etc.)		Chang flow/ph chart					