

6 September 2022

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

Subject: August 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 August 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 no longer monitored and recorded using the Leviton Series 2000 Multiple Meter Unit. Summary energy consumption reports will be provided separately to the Navy representative.

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

Table 1 - System Operating Data for August 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⁾
8/1/2022	7,903,909,000	3,250	76	65	10.7	1.67 read 1.64 manual	6.90 read
8/2/2022	7,906,972,000	3,100	83	73	10.4	1.70 read 1.64 manual	7.00 read
8/3/2022	7,911,739,000	3,250	85	75	10.4	1.83 read 1.80 manual	7.00 read
8/4/2022	7,917,139,000	3,150	82	72	10.7	2.01 read 1.97 manual	6.95 read
8/5/2022	7,919,842,000	2,000	65	53	11.2	1.72 read 1.68 manual	6.95 read
8/8/2022	7,930,639,000	3,200	85	75	10.1	1.83 read 1.80 manual	6.95 read
8/9/2022	7,934,235,000	3,350	76	68	9.8	1.91 read 1.90 manual	6.95 read
8/10/2022	7,937,980,000	2,025	70	63	8.7	1.67 read 1.65 manual	6.95 read
8/11/2022	7,940,732,000	2,100	60	52	8.1	1.66 read 1.65 manual	7.20 read
8/12/2022	7,944,303,000	3,350	75	66	9.1	1.82 read 1.79 manual	7.10 read
8/15/2022	7,956,338,000	3,150	85	76	8.6	1.17 read 1.14 manual	6.80 read
8/16/2022	7,959,445,000	3,300	73	65	9.7	1.64 read 1.85 manual	7.00 read
8/17/2022	7,963,419,000	3,050	84	76	9.3	1.56 read 1.48 manual	7.00 read
8/18/2022	7,967,085,000	3,050	88	79	9.6	1.55 read 1.61 manual	6.90 read
8/19/2022	7,971,129,000	2,050	67	63	4.1	1.77 read 1.59 manual	7.00 read
8/22/2022	7,981,725,000	2,050	66	62	4.2	1.79 read 1.67 manual	6.90 read
8/23/2022	7,985,442,000	3,150	82	74	9.1	1.79 read 1.85 manual	6.90 read
8/24/2022	7,988,887,000	3,300	70	60	10.4	1.73 read 1.89 manual	6.90 read
8/25/2022	7,992,617,000	3,400	73	62	10.6	1.87 read 1.99 manual	6.90 read
8/26/2022	7,997,298,000	3,400	78	67	10.5	1.76 read 1.88 manual	6.90 read
8/29/2022	8,008,082,000	2,050	57	57	4.4	1.70 read 1.83 manual	7.00 read
8/30/2022	8,011,679,000	2,000	79	75	4.2	1.81 read 1.89 manual	7.00 read
8/31/2022	8,014,932,000	2,000	59	55	4.5	1.58 read 1.69 manual	6.90 read

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 August 2022. Over 111 million gallons of water were treated in August 2022, bringing the total cumulative volume of water treated since startup to over 8.01 billion gallons.

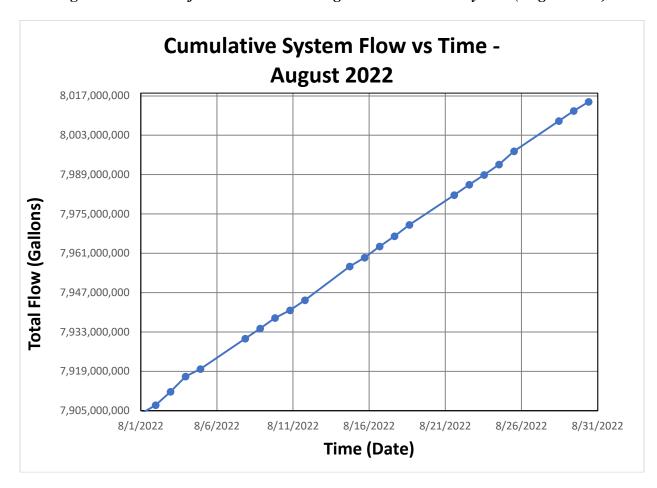


Figure 1 - Volume of Water Treated through Full Scale GAC System (August 2022)

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 September 2021 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 bacteria 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 NCDOH 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.

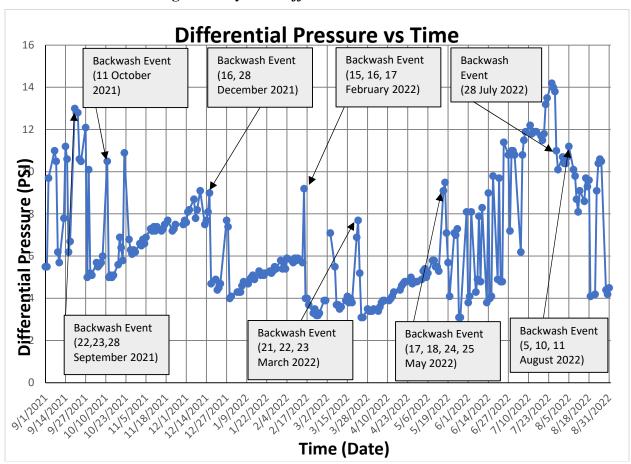


Figure 2 - System Differential Pressure vs. Time

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 ran concurrently with Well 4S on 1 through 4 August, 8 through 9 August, 12 through 18 August, and 23 through 26 August.

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

- On 5 August, GACs #500 and #600 were backwashed as the result of higher than typical build-up of particulate material in the carbon matrix.
- On 10 through 11 August, GACs #300 and #400 were backwashed as the result of higher than typical build-up of particulate material in the carbon matrix.

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

Sincerely,

KOMAN Government Solutions, LLC

Robert G. Gregory

Project Manager

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D. Brayack - Tetra Tech

J. Pelton – NYSDEC

K. Granzen – NYSDEC

M. Travis – NYSDEC

ATTACHMENT 1 O&M LOGS – AUGUST 2022

		Granu		Readings arbon Treatment	t System	*	
Description	Date	7262022				8-1-201	2 8 2 3 0 2 2
System Flow Rate	GPM	3250	3250	1900	3550	3700	3100
Total System Flow	Gallons	1/1022/16	7969163			798778	1 7990844
Well 3 Status	ON OR OFF	ON:	0,0	OFF	02)	0.0	CN
Well 4 Status	ON OR OFF	OW	ON	ON	00	02	000
Tank 100 Flow Rate	GPM	500	500	0/4	650	600	550
Tank 200 Flow Rate	GPM	500	450	0/0	650	600	500
Tank 300 Flow Rate	GP95	600	600	500	600	600	600
Tank 490 Flow Rate	GPM	650	660	500	600	450	550
Tank 508 Flow Rate	GPM	650	650	550	. 650	650	600
Tank 600 Flow Rate	GPM	500	550	500	:550	500	450
Tank 100 Total Flow	Gallons	93 750,000	94266,000	94.823.000	95 050,00	97/196 000	97 748 000
Tank 209 Total Flow	Gallons	33497,000	33 988,000		39 758,000	36/729,000	25 2015
Tank 300 Total Flow	Gallens	24'579,000	, , , ,	25.899.000	26.511 non	28 430 000	The state of the s
Tank 400 Total Flow	Gelions	11/14,000	(, , ,	12324,000	12,920,000	11 301.000	10-
Tank 500 Total Flow	Gellens	40 741,000	41 421,000	112 156	42 813,000	44 876,000	(10)
Tank 660 Total Flow	Gallens	01,240,00	01769,000	52318:000	02852,00	04 454,00	95,409,000 09,868,000
System Influent Pressure	PSI	81	76	75	67	71	83
System Effluent Pressure	PSI	67	64)	64	57	65	73
System Differential Pressure	PSI.	14.0	138	11.0	10.1.	10.7	.10.4
Chlorine Analyzer: Free Chlorine Residual - Inline	PPM	1.94	1/3	1.8%	1.75	1.67	1.70
Effluent Water pH - Infine	Units	6.9	6.9	6.9	70		
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.92	1.09	1.7.1	1.69	0-/	7.0
Manual pH check (ex: Henna)	Units				7.6/	1.64	1.64

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		Gramile	Daily Re Activated Cart		wstem		
Description	Date	7.26.2022	7.27.2022	7.28.2012	-	8-1-2092	6-2 202
Tank 800A Hyposhlorite Lovel	Gallono	132	121	150	140	1417	112
Tank 9009 Hypochilofile Level	Gullens	105	65	145	105	145	130
Tank 880C Hypophicrite Level Tank 986A	Callons	141	141	141	141	140	140
Pohyhoophete Level Tunk 9968	Gellons	139	120	102 141	140	80 121	117
Polaphosphate Level Matering Pump 368A:	Pel					A CONTRACTOR OF THE PROPERTY O	
modification Output Presents Matering Pump 1988: modificatio Output Pressure	PSI						
Motoring Pump 000A: heaphate Output Pressure	281	wallows the second seco					
Metering Pump 9665: hosphate Output Pressure	PSI						
Metering Pump 880A: Stroke/Recod Netering Pump 8898:	Unite						***************************************
Stroke/Speed Statering Pump 800A:	Units						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Stroke/Speed Motoring Pump (9668: Stroke/Speed	Units						
Senerator Operating Hours	Hours						
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	-	Replaced		Backwash		CL Delu	× X
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Comments		Senson	ł	7 Delu	In Serve?		
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		Grane	Daily ular Activated Co	Readings arbon Treatmen	it System	-	
Description	Date	83.202	284202		The same of the sa	2 89202) (, , , ,
System Flow Rate	GPM	3250	3150	2000	7700		2 81020
Total System Flow	Gelione	7995611	8001011		4 851451	3350	202
Well 3 Status	ON OR OFF	ON	00	OFF	00	18018107	20218
Well 4 Status	ON OR OFF	0.0	ON	00	000	0.0	OFF
Tonk 100 Flow Rate	QPM	600	550	500	500		ON
Tank 200 Flow Rate	GPM	606	550	500		550	500
Tank 300 Flow Rate	GPM	650	600	550	500	550	500
Tank 490 Flow Rate	GPM	600	606	500	550	600	10/4
Tank 500 Flow Rate	GPM	650	600	0/4	650	650	0/2
Tank 600 Flow Rate	GPM	500	500	0/2	500	6 SO SOO	550
Tank 100 Total Flow	Gallons	787,000		2000			450
Tank 200 Total Flow	Gations	37 801 000	25,102		01,741,000		02,835,0
Tank 300 Total Flow	Gallens	29.511.000	1 / 6	4,009,000	4 004 000		42,058,0
Tank 400 Total Flow	Galiona	5 9 7 9 .000	10	30,587,000	32 798,000		33,800 0
Tank 500 Total Flow	Gallens <	16071000	16 225	417 (10)	18 781,000	19,301,000	19,728,00
Tank 600 Total Flow	Gallons		05871.000	26372.000	08241.000	50,427,000	51,5070
System Influent Pressure	P81	85	82	65		08,628,000	
System Effluent Pressure	PSI	75	72	53	85 75	76	70
System Differential Proceure	PSI	10.4	10.7	11.2	10.1	68	63
inlorine Analyzer: Free Chlorine Residuel - Inline	bloM	1.83	201	1.72		9-8	· S.7
Effluent Water pH - inline	Units	70	6.95	195	1.83	191	1.67
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.80	1-97	(6./)	- C : C	6.95	6.95
Manual pH check (ex: Hanna)	Units		/ - / /	1.68	1-80	1.90	1.65

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		Granula	Daily Re or Activated Carl		System		
Description	Date	Contraction of the second of t	8.4.2022	-	A Transfer of the second secon	892022	8.10.2026
Task 800A Hypochlorite Level	Gallons	50	145	1.30	150	130	119
Tank 800B Hypochicrite Level	Gallens	105	143	1.35	147	127	70
Tank 880C Hypophlorite Level	Gellons	140	145	145	143	143	130
Tank 906A Pohjphospheta Level	Gellons	45	33	130	140	123	115
Tunk 9008 Polyphosphate Level	Callons	110	105	131	139	137	130
Matering Pump 900A:	PØI						
Metering Pump (1988: hypochlarite Oxigent Pressure	P81						***************************************
Eletering Purup BBA: Phosphate Output Pressure	PBI						
Motoring Pump 9668: Phosphate Output Pressure	PSI						
Metering Pump 888A: Stroke/Bosed	Units						
Metering Pump 8008: Stroke/Spred	Units						
Motoring Pump 100A: Stroke/Speed	Units						
Metering Pump (1918: Stroke/Speed	Units		·				
Generator Operating Hours	House						
Main Facility Electric Meter Ro	poding						
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			ic semple	70/5-1			ONC SU
Comments			4	STK 296		1	333
dditional tasks performed, mai needed, contractors on site,							

		Granu	Daily alar Activated Ca	Readings arbon Treatmen	nt System		
Description	Date	8.11.2023	The same of the sa	-		2 8.17.20	22 8 18 2022
System Flow Rate	GPM	2100	3350	3150	3300	4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	D [0 ac-80
Total System Flow	Gation	The state of the s	10	5 8040a10		3050	3050
Well 3 Status	ON OF	OFF	ow	ON	804331	7 804729	8050957
Well 4 Status	ON OF		00	0.0	0.0	ON	av
Tank 100 Flow Rate	QPM	500	500	400	500		OW
Tank 200 Flow Rate	GPM	500	500	400	1 10/1/10/10/20	500	450
Tank 300 Flow Rate	GPM	0/4	650	600	500	500	500
Tank 400 Flow Rate	GPM	Oll	600	550	6.50	500	530
Tank 500 Flow Rate	GPM:	600	650	The state of the s	600	600	530
Tank 600 Flow Rate	GPM	500	500	500	500	550	600
Tank 100 Total Flow	Gallons	03 360,000	44 500			500	500
Tank 200 Total Flow	Gallons	48540 000	42 984,000	1 / /	, , ,	06, 264,00	07,721,000
Tank 300 Total Flow	Gallens	33874 000	33 965,000	36, 295 000	414 928,000	45, 433,000	46,005,000
Tank 400 Total Flow	Gallens	19,764 000	20 230,000	42	36,880,000	37,636,00	38,330,000
Tank 500 Total Flow	Gellens	52281.000	52971,000	55 420,000		23,651,000	24,297,000
Tank 699 Total Flow	Gallons	1007400	10 604,000	12 448,00)	12911000	13574,000	57,647,000
System Influent Pressure	P81	60			79, 11,000		14,090,000
System Effluent Pressure	PSI	52	66	85	13	84	88
System Differential Pressure	PSI	8.1	91	76 8.6	9.2.	76	79
Chiorine Analyzer: Free Chiorine Residuel - Inline	PPM	1.66	1.82	0.6		9.3	. 5.6
Effluent Water pH - Inline	Units	7.20	7.04	.68	1.64	1.56	155
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.65	179			70	6.9
Menual pH check (ex: Henna)	Unite	7.63	1. 1-1	1.14	1.85	1.48	1,61

		Granule	Daily Re ar Activated Cari	-	System		
Description	Date	8-11-2022	812.2022	8-152022	× 16 2022	8.17,2022	8.172022
Tank 868A Hyposhlorita Level	Gallons	78	85	140	150	120	105
Tank 8008 Hypochlorks Level	Gallens	50	145	128	1418	130	125
Tank 880C Hypophlorite Level	Callons	110	150	15	145	145	145
Tunk 999A Polyphosphete Lovel	Gellons	97	82	95	80	63	130
Tank 8008 Pokahosphate Lovel	Gettons	140	1.3.7	119	117	115	105
Metering Pump 800A: pohlorite Output Pressure	Pel	MODELLA MARKATAN CONTRACTOR AND		arismon de arione antigrafica de energ			MAN AND AND AND AND AND AND AND AND AND A
Motoring Pump 8965: schlorite Output Pressure	PSI						
Notoring Pump 866A: aphate Output Pressure	P81						
Hotoring Pump 9556: subste Culput Pressure	P81						
Setoring Pump 880A: Strokn/Bood	Unite						
lictoring Pump 9008: Stroke/Stood	Unites			And the property of the Control of t			
Stroke/Speed	Units						
fotoring Pump (1912: Stroke/Speed	Unite						
erator Operating Hours	House		181-7	181.7	181.7	181.7	181.7
in Facility Électric Mater Re	ading	*		-			- A - A - A - A - A - A - A - A - A - A
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Comments oned tasks performed, make	terrana (Fron In	Iflo. id2 -				PAC 142 TN
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		washing	eff 2.08				2011
		Laling	EH 3-00				0/7C 3A(1 In)
		195 179 K	Bf4-103 1				
			WF526-148			6	AC SOG Jul
= =		EX	6-116				5-E

		Granu	Daily F lar Activated Ca	teadings rbon Treatment	: System		
Description	Date	9-19-2026	82222	823202	88422	1825202	28262022
System Flow Rate	GPM	2050	2050	3150	3300	3400	3900
Total System Flow	Gations	8055001	8065597	9069314	8072759	8076489	
Well 3 Status	ON OR OFF	OFF	OFF	0.0	00	00	00
Well 4 Status	ON OR OFF	ON	ON	ON	01)	01	ON
Tenk 100 Flow Rate	GPM	250	250	400	500	500	500
Tank 200 Flow Rate	GPM	250	250	460	500	500	(550)
Tank 300 Flow Rate	GPM	400	400	550	650	650	650
Tank 400 Flow Rate	СР И	400	400	550	600	606	650
Tank 500 Flow Rate	GPM	450	400.	650	. 700	700	650
Tank 600 Flow Rate	GPM	400	350	500	500	600	550
Tank 166 Total Flow	Gallons	08 233 coo	09581000	09997000	10,504,000	10987000	114/00 000
Tank 200 Total Flow	Gallons	46,417,000	47764000	18311.000	7		
Tank 300 Total Flow	Gallens	39 045 000	41,096,000	411 776 000	42 448,000	43 150000	43 529 con
Tank 400 Total Flow	Gallons	24,998000	26847000	27 492,000	00		29 209 00
Tank 500 Total Flow	Gellons	58348,000	60,441,000	61,189,000	61,873,000		63 114,000
Tank 660 Total Flow	Gallons	14,610,000	16,225,000	16,813,000	17.330 000	1784800	18284.00
System Influent Pressure	P81	67	66	82	70	173	78
System Effluent Pressure	PSI	63	62	74	60	62	6)
System Differential Pressure	PSI	4.1	4.2	9.1	10,4	166	.165
Chiorine Anulyzor: Free Chiorine Residuel - Inline	PPM	177	1.79	1,79	1, 73	177	1.76
Efficent Water pH - Inline	Units	7, 6	6.9	6.9	6-9	69	6.9
Manual Chlorine Reading (ex: Hach Kit)	PPM	1.59	1.67	185	1.89	199	1.88
Manuel pH oheck (ex: Henna)	Units						
	L	and the same of th					

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		Granula	Daily Ro r Activated Car	endings bon Treatment :	System		
Quaription	Dete	8.19.2022	822.22	9.23.22	82422	8.25.2022	8:363022
Tank 898A Hyposhiothe Level Tank 880B	Gallons	134	145	120	120	150	123
Hypochiorite Level	Gallons	101	146	133	77	151	146
Tank 960C Hypochloriko Level	Callons	90	143	143	143	153	153
Tunk 1984 Pohyboophete Level Tunk 1988	Gallons	109	59	40	25	158	136
Tunk 2008 Polyphosphate Level	Gallons	101	58	84	79	163	160
Matering Pump 989A: Hypochlorite Output Pressure	P-94				AND THE RESIDENCE OF THE PARTY		
Motoring Pump 3068: Hypochlorita Output Pressure	1981						
Blotering Pump 866A: Phosphate Output Pressure	P 8 4				(
Motoring Pump 9665: Phosphate Guiped Pressure	P81						
Metering Pump 800A: Stroke/Speed	Unite						
Stroke/Speed Metering Pump 8608; Stroke/Speed	Units						CONTRACTOR AND
Motoring Pump 988A: Stroke/Speed	Units						
Metering Pump (1965: Streke/Speed	Units						
Generator Operating Hours	Houre	182.1	1821	182.1	182.1	182.5	182.5
Main Facility Bleatic Mater Re-	ading	1		1			
				***************************************		Cl Delu.	
						Phos Delo	
Comments additional testic performed, make							
needed, contractors on site, e	105.)			The state of the s		3 - 1 - 1 - 1	
							12.

		Granul	Daily R lar Activated Ca	leadings rhon Treatment	Suchama	
Description	Date	18.29.2022		731.202		
System Flow Rate	GPM	2050	2000	2000		
Total System Flow	Gations		8095551	8098804		
Well 3 Status	ON OR	OFF	OFF	OFF		
Well 4 Status	ON OR OFF	01)	0.0	0.0		
Tenk 100 Flow Rate	GPM	250	250	250		
Tank 200 Flow Rate	GPM	250	250	850		
Tank 300 Flow Rate	GP##	350	350	350		
Tank 490 Flow Rate	GPM	400	30	350		
Tank 500 Flow Rate	GPM	400	400	400	·.	
Tank 600 Flow Rate	GPM	300	300	:300		
Tank 100 Total Flow	Gallons	12 574 000	13318.000	1357100n		P P P
Tank 200 Total Flow	Gallons	50982 000	51610,000	52 028 con		
Tank 300 Total Flow	Gallens	15981 000	46 725 000	47,288,00		
Tank 400 Total Flow	Gallons	31 009 000	32'005000	32 641,000		
Tank 500 Total Flow	Gellens	65/11/000	66 328 000	67.065 000		
Tank 660 Total Flow	Gallens	19962 m	20 750,000 ·	21 198 m	·	
System Influent Pressure	P81	57	79	59		
System Efficient Pressure	PSI	54	75	55		
ystem Differential Pressure	PSI	4.4	4.2	4.5		
orine Anniyzer: Free Chlorine Residual - Inline	PPM	1.70	181	158		
Effluent Water pH - Inline	Units	70	70	19	**************************************	
Manual Chlorine Reading (ex: Hach Kit)	PPM	1-8-3	1,89	1.6.5		
Menuel pH check (ex: Henne)	Units					
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		Granula	Daily R or Activated Car	eadings bon Treatment	System		
Description	Date	8.29.2022	8392012	8-312022			
Tunk #88A Hypodhlorito Lovel	Gallono	150	138	12)	E. F.		
Tank 1902 Hypochiorite Level	Gulleno	151	1412	80		The second secon	
Tank 899C Hypophiarije Lavel	Gallons	153	106	100			N The second
Timk 998A Polyphospheta Lovel Timk 9988	Gallons	641	41	131			a a company
Tank 1988 Pohphosphate Level	Gallons	141	141	15/1			
Motoring Pump 800A: Hissochlorite Output Pressure	Pel		na manasan manakan ministra manakan ministra manakan ministra mini		AND THE PERSON OF THE PERSON O		
Motoring Pump (1965): Hypochicatio Output Pressure	PSI						
Motoring Pump 866A: Phosphata Output Pressure	P21		4				
Motoring Pump 9888: Phosphate Output Pressure	P8I						
Metering Pump 800A: Stroke/Nooed	Umites	***************************************		**************************************			
Motoring Pump 6005: Stroke/Stood	Units				Andrew Control of the Angelog	TO THE RESIDENCE OF THE PARTY O	
Batering Pump 900A: Stroke/Speed	Unite						
Metering Pump (1969: Stroke/lipsed	Unite						
Generator Operating Hours	House	182.5	182,5	1825			
Main Facility Electric Mater Re-	sding						
der Standard volken i 1959 des sonstenen – der obsissen i Principies, gegen gebore verschieben gebereit.		21 Delu		Phos. Delu			
					10.0 10 10 10 100		
							*
Comments (additional tasks performed, main needed, confractors on sits, c	Senance						
the managed as an entitled to ded attitud of							V
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