COMMITMENT & INTEGRITY
DRIVE RESULTS

1111 Nantasket Ave.
Hull, Massachusetts 02045

T 781.925.0906

WOODARD
&CURRAN

June 12, 2015

Ms. Marie J. McDonald
U.S. Environmental Protection Agency
Water Enforcement, OES4-SMR
5 Post Office Square
Boston, MA 02109-3912

Subject: Hull, MA Water Pollution Control Facility (WPCF) – NPDES Permit No. MA0101231
Discharge Monitoring Reports – May 2015 – Discharge 001-A

Dear Ms. McDonald:

Enclosed please find the completed DMR for the month of May 2015. Please note that the facility operated in complete compliance with all NPDES requirements.

Please note that Woodard & Curran is the new contact operator for the Town of Hull's WPCF and that this change was effective on 5/1/15. Also, the updated staffing plan and schedule is attached for the Hull WPCF.

On the MA DEP State DMR form, influent flow data has not been included due to the inaccuracy of the influent parshall flume and influent pump flow meters. These flow meters are currently being evaluated. The effluent flow will continue to be used as done in the past to calculate plant loadings.

Should you have questions concerning this submittal, please contact the undersigned at 781-925-0906. Thank you for your assistance.

Sincerely,

Aram Varjabedian

Aram Varjabedian – Woodard & Curran
Project Manager

Enc. DMR forms, support documentation

Cc: David Burns, MA DEP (SERO) Lakeville, MA
James Dow – Chief Facility Manager – Town of Hull WPCF
Ryan Joyce – Division of Marine Fisheries

Hull WWTF
Monthly Rain, Temperature and Flow
May, 2015

Date	Rainfall	Minimum Air Temp	Maximum Air Temp	Effluent Flow
	Inches	F	F	MGD
05/01/15	0.00	40	53	1.322
05/02/15	0.00	40	53	1.445
05/03/15	0.00	45	75	1.374
05/04/15	0.00	51	78	1.331
05/05/15	0.03	53	65	1.583
05/06/15	0.00	44	65	1.050
05/07/15	0.00	53	79	1.149
05/08/15	0.00	46	64	1.338
05/09/15	0.00	46	71	1.205
05/10/15	0.00	59	79	1.305
05/11/15	0.00	49	70	1.249
05/12/15	0.16	47	73	1.242
05/13/15	0.00	51	64	1.287
05/14/15	0.00	47	61	1.275
05/15/15	0.00	49	61	1.275
05/16/15	0.00	54	72	1.463
05/17/15	0.00	58	82	1.432
05/18/15	0.00	49	58	1.473
05/19/15	0.17	52	63	1.499
05/20/15	0.00	54	63	1.372
05/21/15	0.00	41	71	1.312
05/22/15	0.00	52	71	1.312
05/23/15	0.00	45	62	1.216
05/24/15	0.00	51	79	1.261
05/25/15	0.00	58	79	1.153
05/26/15	0.00	63	80	1.179
05/27/15	0.00	64	76	1.042
05/28/15	0.00	61	74	1.157
05/29/15	0.00	54	66	0.950
05/30/15	0.02	58	88	1.243
05/31/15	0.00	48	84	1.158
Min	0.00	40	53	0.95
Max	0.17	64	88	1.58
Avg	0.01	51	70	1.28
Sum	0.38			39.65

May 2015

Hingham Flow

	Daily Com	100011 - Hingham Flow KGAL
1 Fri		68.00
2 Sat		66.00
3 Sun		76.00
4 Mon		66.00
5 Tue		61.00
6 Wed		64.00
7 Thu		65.00
8 Fri		63.00
9 Sat		72.00
10 Sun		74.00
11 Mon		63.00
12 Tue		70.00
13 Wed		71.00
14 Thu		66.00
15 Fri		65.00
16 Sat		69.00
17 Sun		68.00
18 Mon		65.00
19 Tue		65.00
20 Wed		61.00
21 Thu		66.00
22 Fri		68.00
23 Sat		74.00
24 Sun		69.00
25 Mon		72.00
26 Tue		70.00
27 Wed		64.00
28 Thu		65.00
29 Fri		65.00
30 Sat		61.00
31 Sun		73.00
MIN		61.00
MAX		76.00
AVG		67.26
SUM		2,085.00
GeoMean		67.14

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name HULL W P C F
Address 1111 NANTASKET AVE
HULL MA 02045

Facility HULL W P C F
Location HULL MA 02045
Attn: JOHN J STRUZZIERY CHRMN COMM

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MA0101231	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	15	05	01	TO	15	05	31

OMB No. 2040-0004

MAJOR
(SUBR E)
F- FINAL
TREATED SANITARY WASTEWATEF

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	48	64	LBS/DY	5	6	6	mg/L	0	1/7	24
	PERMIT REQUIREMENT	768 MO AVG	1,152 WKLY AVG	LBS/DY	30 MO AVG	45 WKLY AVG	50 DAILY MX	mg/L		WEEKLY	COMP 24
BOD, 5-DAY (20 DEG. C) 00310 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	2,880	******	LBS/DY	270	******	******	mg/L	0	1/7	24
	PERMIT REQUIREMENT	REPORT MO AVG	******	LBS/DY	REPORT MO AVG	******	******	mg/L		WEEKLY	COMP 24
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	6.90	******	7.20	SU	0	~~1/7~~ 01/01	GR~~4~~
	PERMIT REQUIREMENT	******	******	****	6.5 MINIMUM	******	8.5 MAXIMUM	SU		WEEKLY	GRAB-4
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	176	235	LBS/DY	17	22	22	mg/L	0	1/7	24
	PERMIT REQUIREMENT	768 MO AVG	1,152 WKLY AVG	LBS/DY	30 MO AVG	45 WKLY AVG	50 DAILY MX	mg/L		WEEKLY	COMP 24
SOLIDS, TOTAL SUSPENDED 00530 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	4,099	******	LBS/DY	384	******	******	mg/L	0	1/7	24
	PERMIT REQUIREMENT	REPORT MO AVG	******	LBS/DY	REPORT MO AVG	******	******	mg/L		WEEKLY	COMP 24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.66	~~7.400~~ 1.58	MGD	******	******	******	****	0	99/99	RC
	PERMIT REQUIREMENT	3.07 12 MO AVG	DAILY MX	MGD	******	******	******	****		CONTINUOUS	RCORDR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 0 0 See Comments	SAMPLE MEASUREMENT	******	******	****	1.28	******	******	MGD	0	~~1/7~~ 99/99	~~GR~~ RC
	PERMIT REQUIREMENT	******	******	****	REQ MO AVG	******	******	MGD		~~WEEKLY~~ CONTIN	~~GRAB~~ RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
~~Teresa O'Callaghan~~ James Dow, Chief Facility Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		781	925-1207	15	06	11
TYPED OR PRINTED		SIGNATURE OF PRICIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPANATION OF ANY VIOLATIONS (Reference all attachments here)
REPORT MAXIMUM AND MINIMUM DAILY FLOW RATES AND TOTAL FLOW FOR EACH OPERATING DAY WITH DMR EACH MONTH
WET DATA ON DMR 001B

ARAM VARJABEDIAN
Woodard + Curran

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name HULL W P C F
Address 1111 NANTASKET AVE
HULL MA 02045

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004

MAJOR
(SUBR E)
F- FINAL
TREATED SANITARY WASTEWATER

MA0101231	001 A
PERMIT NUMBER	DISCHARGE NUMBER

Facility HULL W P C F
Location HULL MA 02045
Attn: JOHN J STRUZZIERY CHRMN COM

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	15	05	01	TO	15	05	31

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Chlorine, Total Residual	SAMPLE MEASUREMENT	******	******	******	0.17	******	0.68	mg/L	0	03/01	GR
50060 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	******	******	******	0.7 MO AVG	******	1 DAILY MAX	mg/L		THREE PER DAY	GRAB
ENTEROCOCCI	SAMPLE MEASUREMENT	******	******	******	<10	******	<10	CFU/100 ml	0	1/7	GR
61211 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	******	******	******	35 MO AVG	******	276 DAILY MAX	CFU/100 ml		WEEKLY	GRAB
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	******	******	******	<10	******	<10	#/100 ml	0	1/7	GR
74055 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	88 MO GEO	******	260 DAILY MX	#/100 ml		WEEKLY	GRAB
BOD, 5-DAY PERCENT REMOVAL	SAMPLE MEASUREMENT	******	******	******	98	******	******	%	0	1/30	CA
81010 K 0 0 PERCENTREMOVAL	PERMIT REQUIREMENT	******	******	******	85 MO AVG	******	******	PER-CENT		ONCE/ MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL	SAMPLE MEASUREMENT	******	******	******	96	******	******	%	0	1/30	CA
81011 K 0 0 PERCENTREMOVAL	PERMIT REQUIREMENT	******	******	******	85 MO AVG	******	******	PER-CENT		ONCE/ MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ARAM VARJABEDIAN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

~~Teresa O'Callaghan~~ Woodard & Curran
James Dow, Chief Facility Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRICIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
781	925-1207	15	06	11
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPANATION OF ANY VIOLATIONS (Reference all attachments here)

REPORT MAXIMUM AND MINIMUM DAILY FLOW RATES AND TOTAL FLOW FOR EACH OPERATING DAY WITH DMR EACH MO

WET DATA ON DMR 001B

Hull Wastewater Treatment Plant Operations Data

May, 2015

		2 - FINE BAR RACK ON/OFF ON/OFF	3 - GRIT CHAMBER ON/OFF ON/OFF	4 - GRIT CLASSIFIER ON/OFF ON/OFF	5 - PRI CLAR #1 ON/OFF ON/OFF	6 - PRI CLAR #2 ON/OFF ON/OFF	7 - AT #1 ON/OFF ON/OFF	8 - AT #2 ON/OFF ON/OFF	9 - AT #3 ON/OFF ON/OFF	10 - AT #4 ON/OFF ON/OFF	11 - SEC CLAR #1 ON/OFF ON/OFF	12 - SEC CLAR #2 ON/OFF ON/OFF	13 - CL2 BASIN #1 ON/OFF ON/OFF	14 - CL2 BASIN #2 ON/OFF ON/OFF	15 - GRAVITY THICK #1 ON/OFF ON/OFF
Fri	01		On	On	On	On	On	Off	On	Off	On	On	On	On	On
Sat	02		On	On	On	On	On	Off	On	Off	On	On	On	On	On
Sun	03		On	On	On	On	On	Off	On	Off	On	On	On	On	On
Mon	04		On	On	On	On	On	Off	On	Off	On	On	On	On	On
Tue	05		On	On	On	On	On	Off	On	Off	On	On	On	On	On
Wed	06		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Thu	07		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Fri	08		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Sat	09		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Sun	10		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Mon	11		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Tue	12		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Wed	13		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Thu	14		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Fri	15		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Sat	16		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Sun	17		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Mon	18		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Tue	19		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Wed	20		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Thu	21		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Fri	22		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Sat	23		On	On	Off	On	On	Off	On	Off	On	On	On	On	On
Sun	24		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Mon	25		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Tue	26		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Wed	27		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Thu	28		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Fri	29		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Sat	30		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
Sun	31		On	On	Off	On	On	Off	On	Off	On	Off	On	On	On
MIN		-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX		-	-	-	-	-	-	-	-	-	-	-	-	-	-
AVG		-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUM		-	-	-	-	-	-	-	-	-	-	-	-	-	-

		16 - GRAVITY THICK #2 ON/OFF ON/OFF	17 - SLUDGE TANK #1 ON/OFF ON/OFF	18 - SLUDGE TANK #2 ON/OFF ON/OFF	19 - RST ON/OFF ON/OFF	20 - RAINFALL inches	25 - MIN AIR TEMP DEG F	24 - MAX AIR TEMP DEG F	26 - LBS GRIT REMOVED LBS	27 - CUFT SCREENINGS CUFT	30 - INF TSS (Report) MG/L	32 - INF BOD (Report) MG/L	34 - INF FLOW MGD	40 - INFLUENT Q MINIMUM MGD	41 - INFLUENT Q MAXIMUM MGD
Fri	01	Off	On	On	Off	0.00	40	53							
Sat	02	Off	On	On	On	0.00	40	53							
Sun	03	Off	On	On	Off	0.00	45	75							
Mon	04	Off	On	On	On	0.00	51	78							
Tue	05	Off	On	On	Off	0.03	53	65							
Wed	06	Off	On	On	On	0.00	44	65							
Thu	07	Off	On	On	On	0.00	53	79			427	430			
Fri	08	Off	On	On	On	0.00	46	64							
Sat	09	Off	On	On	On	0.00	46	71							
Sun	10	Off	On	On	Off	0.00	59	79							
Mon	11	Off	On	On	On	0.00	49	70							
Tue	12	Off	On	On	On	0.16	47	73							
Wed	13	Off	On	On	On	0.00	51	64							
Thu	14	Off	On	On	On	0.00	47	61			312	180			
Fri	15	Off	On	On	On	0.00	49	61							
Sat	16	Off	On	On	On	0.00	54	72							
Sun	17	Off	On	On	On	0.00	58	82							
Mon	18	Off	On	On	On	0.00	49	58							
Tue	19	Off	On	On	On	0.17	52	63							
Wed	20	Off	On	On	On	0.00	54	63							
Thu	21	Off	On	On	On	0.00	41	71			272	180			
Fri	22	Off	On	On	On	0.00	52	71							
Sat	23	Off	On	On	On	0.00	45	62							
Sun	24	Off	On	On	On	0.00	51	79							
Mon	25	Off	On	On	On	0.00	58	79							
Tue	26	Off	On	On	On	0.00	63	80							
Wed	27	Off	On	On	On	0.00	64	76							
Thu	28	Off	On	On	On	0.00	61	74			526	290			
Fri	29	Off	On	On	On	0.00	54	66							
Sat	30	Off	On	On	On	0.02	58	88							
Sun	31	Off	On	On	On	0.00	48	84							
MIN		-	-	-	-	0.00	40	53			272	180			
MAX		-	-	-	-	0.17	64	88			526	430			
AVG		-	-	-	-	0.01	51	70			384	270			
SUM		-	-	-	-	0.38	1,582	2,179			1,537	1,080			

		44 - PRI TSS MG/L	46 - PRI BOD MG/L	62 - PRI #1 BLANKET FT	63 - PRI #2 BLANKET FT	77 - MLS SVI MG/L	78 - MLSS 5 MIN SET MIN	80 - MLSS 30 MIN SET 30 MIN	81 - MLSS 60 MIN SET MIN	83 - MLSS MG/L	84 - RAS TSS MG/L	86 - RAS FLOW MGD	96 - SEC #1 BLANKET FT	97 - SEC #2 BLANKET FT	101 - WAS TSS THCK MG/L
Fri	01			1.5	1.5	269	1,000	1,000	1,000	3,710	5,348	1.5860	4.0	4.0	5,250
Sat	02			1.0	0.5	314	1,000	980	980	3,116	4,700	1.5840	5.0	5.0	14,820
Sun	03			2.0	1.5	147	1,000	1,000	1,000	6,796	4,392	1.5810	5.0	6.0	6,568
Mon	04			1.5	1.5	348	1,000	830	770	2,379	4,290	1.5810	8.0	5.0	9,340
Tue	05			1.5	1.5	330	1,000	960	840	2,904	4,752	1.5820	9.0	5.0	8,308
Wed	06				0.6	227	980	980	980	4,306	3,958	1.5840	5.0	4.0	8,892
Thu	07	53	86		1.0	352	1,000	1,000	900	2,844	4,304	1.5840	3.5	6.0	8,568
Fri	08				1.0	296	980	980	980	3,303	4,016	1.5870	3.0	6.0	8,710
Sat	09				1.0	335	990	730	540	2,179	4,470	1.5850	4.0	9.0	7,002
Sun	10				1.0	283	920	550	410	1,939	5,130	1.5880	3.0	7.0	9,985
Mon	11				1.0	258	950	510	450	1,973	5,100	1.5860	6.0	5.0	10,126
Tue	12				2.0	188	1,000	1,000	1,000	5,324	4,752	1.5870	10.0	7.0	9,476
Wed	13				2.0	226	1,000	1,000	1,000	4,420	4,252	1.7390	12.0	3.0	7,180
Thu	14	76	74		1.5	323	1,000	860	680	2,661	4,816	1.8270	4.0	8.0	9,244
Fri	15				1.0	261	1,000	1,000	990	3,834	4,126	1.7900	4.0	8.0	6,384
Sat	16				1.5	271	1,000	950	810	3,496	4,824	1.7780	3.0	8.0	8,696
Sun	17				2.0	266	950	700	500	2,625	4,202		4.0	2.0	11,006
Mon	18				1.0	230	950	650	500	2,814	4,840	1.7710	3.0	2.0	8,462
Tue	19				1.0	207	900	530	400	2,562	4,076	1.7830	3.0	4.5	8,216
Wed	20				1.0	230	980	600	450	2,604	4,764	1.7810	2.0	3.0	8,956
Thu	21	67	64		1.0	232	900	500	400	2,149	5,028	1.7500	2.5	4.0	10,056
Fri	22				1.0	231	900	540	430	2,336	4,384	1.7290	3.0	3.0	9,212
Sat	23				0.5	266	980	600	490	2,255	4,288	1.6560	3.0	3.0	9,726
Sun	24				1.0	237	980	590	420	2,492	4,476	1.5580	4.0	3.0	4,236
Mon	25				1.0	279	1,000	860	750	3,081	4,360	1.1370	3.0	1.0	
Tue	26				1.0	222	870	450	340	2,060	1,832	1.1360	4.0	1.5	14,564
Wed	27				1.5	267	960	620	470	2,319	4,896	1.1380	4.0		
Thu	28	81	140		1.0	197	900	470	380	2,382	4,876	1.1300	4.0		8,168
Fri	29				1.0	220	950	530	400	2,406	5,052	1.1330	4.0		10,948
Sat	30				1.0	245	1,000	890	700	3,627	4,598	1.1370	4.0		18,380
Sun	31				1.5	275	980	840	680	3,046	5,240	1.1400	4.0		12,374
MIN		53	64	1.0	1	147	870	450	340	1,939	1,832	1.1300	2.0	1.0	4,236
MAX		81	140	2.0	2	352	1,000	1,000	1,000	6,796	5,348	1.8270	12.0	9.0	18,380
AVG		69	91	1.5	1	259	968	765	666	3,030	4,521	1.5376	4.5	4.7	9,409
SUM		277	364	7.5	37	8,032	30,020	23,700	20,640	93,942	140,142	46.1280	140.0	123.0	272,853

		103 - WAS FLOW GALLONS THCK GAL	104 - EFF TSS (Report) MG/L	106 - EFF BOD (Report) MG/L	108 - EFF FECAL #/100 ML	109 - MAX DAILY FLOW MGD	110 - MIN DAILY FLOW MGD	111 - EFF FLOW MGD	113 - EFF #1 PH SU	124 - CL2 RES #1 MG/L	126 - CL2 RES #2 MG/L	128 - CL2 RES #3 MG/L	141 - THICKENED SLUDGE % TS	144 - THICKENER #1 BLANKET FT	145 - THICKENER #2 BLANKET FT
Fri	01	19,000				3.100	0.000	1.322	7.10	1.26	0.00	0.00	3.8	1.0	
Sat	02	3,000				3.000	0.000	1.445	7.00	0.00	0.00	0.00		1.5	
Sun	03	12,000				3.000	0.000	1.374	7.00	0.06	0.08	0.11		0.5	
Mon	04	15,000				3.000	0.000	1.331	7.00	0.16	0.05	0.07	4.3	0.5	
Tue	05	18,000				3.000	0.000	1.583	7.10	0.35	0.69	0.07		0.5	
Wed	06	21,000				3.000	0.000	1.050	7.10	0.87	0.92	0.18	4.4	5.0	
Thu	07	20,000	15.0	6.0	10	3.200	0.000	1.149	7.00	0.05	0.08	0.11	4.9	1.0	
Fri	08	19,000				4.900	0.000	1.338	7.10	0.12	0.00	0.02	5.4	3.0	
Sat	09	17,000				3.100	0.000	1.205	7.00	0.05	0.04	0.01		4.0	
Sun	10	8,000				3.000	0.000	1.305	7.00	0.01	0.01	0.04		5.0	
Mon	11	3,000				3.000	0.000	1.249	7.00	0.09	0.14	0.08	4.9		
Tue	12	6,000				3.100	0.000	1.242	7.10	0.04	0.03	0.01	5.2	5.0	
Wed	13	18,000				4.800	0.000	1.287	7.20	0.04	0.04	0.18	4.7	4.5	
Thu	14	21,000	22.0	6.0	10	3.100	0.000	1.275	7.10	0.05	0.38	0.09	5.1	1.0	
Fri	15	21,000				3.000	0.000	1.275	7.10	0.03	0.08	0.12		1.0	
Sat	16	21,000				4.800	0.000	1.463	7.00	0.02	0.92	0.67	4.0	5.0	
Sun	17	21,000				3.100	0.000	1.432	7.10	0.15	0.06	0.05		2.0	
Mon	18	21,000				3.100	0.000	1.473	7.10	0.07	0.07	0.07	5.4	2.0	
Tue	19	19,000				3.100	0.000	1.499	7.20	0.01	0.05	0.71		6.0	
Wed	20	21,000				2.900	0.000	1.372	7.20	0.75	0.62	0.68	5.3	1.0	
Thu	21	21,000	16.0	3.0	10	3.100	0.000	1.312	7.20	0.02	0.03	0.05		1.0	
Fri	22	21,000				3.100	0.000	1.312	7.10	0.04	0.97	0.06	5.3	5.0	
Sat	23	24,000				3.100	0.000	1.216	7.20	0.52	0.26	0.18		5.5	
Sun	24	27,000				3.100	0.000	1.261	7.10	0.14	0.17	0.10	6.0	4.5	
Mon	25	7,000				3.100	0.000	1.153	6.90	0.02	0.26	0.09		6.0	
Tue	26	61,000				1.500	0.000	1.179	7.00	0.02	0.03	0.05	4.2	6.0	
Wed	27	80,000				1.500	0.000	1.042	7.00	0.02	0.05	0.25	5.7	5.0	
Thu	28	63,000	13.0	3.0	10	2.100	0.000	1.157	7.10	0.07	0.09	0.04	5.1	3.0	
Fri	29	29,000				2.100	0.000	0.950	7.20	0.14	0.05	0.04		1.0	
Sat	30	25,000				2.100	0.000	1.243	6.90	0.02	0.04	0.08	5.7	7.0	
Sun	31	26,000				7.400	0.700	1.158	7.00	0.01	0.03	0.01		3.5	
MIN		3,000	13.0	3.0	10	1.500	0.000	0.950	6.90	0.00	0.00	0.00	4	1	
MAX		80,000	22.0	6.0	10	7.400	0.700	1.583	7.20	1.26	0.97	0.71	6	7	
AVG		22,839	16.5	4.5	10	3.177	0.023	1.279	7.07	0.17	0.20	0.14	5	3	
SUM		708,000	66.0	18.0	40	98.500	0.700	39.652	219.20	5.20	6.24	4.22	89	97	

		151 - LEACHATE TSS MG/L	152 - LEACHATE BOD MG/L	153 - LEACHATE COD MG/L	9270 - LEACHATE gal	9285 - Groundwater Underdrain gal	252 - Potable H2O Calc. GPD	171 - FEED SLUDGE GALS GALS	236 - THICKENED SLDG LBS/DAY	158 - HT #1 LEVEL FT	159 - HT #2 LEVEL FT	112 - EFF TEMP DEG C	255 - Enterococci No/100ml	234 - Toxicity %	164 - GALS HEATING OIL Inches
Fri	01							9,000	2,908	8.0	11.0	12.3			43
Sat	02									6.0	11.0	12.2			43
Sun	03									10.0	11.0	12.0			43
Mon	04							9,000	3,289	7.0	11.0	12.9			43
Tue	05									8.0	11.0	13.0			43
Wed	06							9,000	3,302	8.0	11.0	13.3			43
Thu	07							9,000	3,658	9.0	11.0	13.8	<10		43
Fri	08							9,000	4,103	9.0	11.0	14.4			43
Sat	09									8.0	0.0	12.9			43
Sun	10									9.0	9.0	15.1			43
Mon	11							18,000	7,418	7.0	5.0	16.6			43
Tue	12							9,000	3,884			13.7			43
Wed	13							9,000	3,557	8.0	11.0	14.0			43
Thu	14							9,000	3,866	8.0	11.0	13.1	<10		43
Fri	15									9.0	11.0	13.7			43
Sat	16							9,000	3,002	9.0	11.0	14.6			43
Sun	17									9.0	11.0	15.1			43
Mon	18							9,000	4,074	10.0	11.0	14.2			43
Tue	19									9.0	11.0	13.9			43
Wed	20							9,000	4,005	9.0	11.0	14.3			43
Thu	21									9.0	10.0	14.8	<10		43
Fri	22							9,000	4,024	8.0	0.0	14.6			43
Sat	23									10.0	0.0	13.7			43
Sun	24							8,500	4,254	12.0	0.0	15.9			43
Mon	25									11.0	11.0	16.4			43
Tue	26							9,000	3,206	9.0	11.0	16.8			43
Wed	27							9,000	4,263	10.0	11.0	17.0			43
Thu	28							9,000	3,846	6.0	11.0	17.8	<10		43
Fri	29									7.0	11.0	17.5			43
Sat	30							9,000	4,278	8.0	11.0	17.4			43
Sun	31									8.0	11.0	18.4			43
MIN								8,500	2,908	6	0	12	<10		43
MAX								18,000	7,418	12	11	18	<10		43
AVG								9,472	3,941	9	9	15	<10		43
SUM								170,500	70,937	258	277	455	<40		1,333

May 2015 Chlorine Residuals

	Daily Com	128 - CL2 RES #1 MG/L	130 - CL2 RES #2 MG/L	132 - CL2 RES #3 MG/L	134 - CL2 RES #4 mg/L	138 - MAX CL2 RES MG/L
1 Fri		1.26	0.00	0.00		0.42
2 Sat		0.00	0.00	0.00		0.00
3 Sun		0.06	0.08	0.11		0.08
4 Mon		0.16	0.05	0.07		0.09
5 Tue		0.35	0.69	0.07		0.37
6 Wed		0.87	0.92	0.18		0.66
7 Thu		0.05	0.08	0.11		0.08
8 Fri		0.12	0.00	0.02		0.05
9 Sat		0.05	0.04	0.01		0.03
10 Sun		0.01	0.01	0.04		0.02
11 Mon		0.09	0.14	0.08		0.10
12 Tue		0.04	0.03	0.01		0.03
13 Wed		0.04	0.04	0.18		0.09
14 Thu		0.05	0.38	0.09		0.17
15 Fri		0.03	0.08	0.12		0.08
16 Sat		0.02	0.92	0.67		0.54
17 Sun		0.15	0.06	0.05		0.09
18 Mon		0.07	0.07	0.07		0.07
19 Tue		0.01	0.05	0.71		0.26
20 Wed		0.75	0.62	0.68		0.68
21 Thu		0.02	0.03	0.05		0.03
22 Fri		0.04	0.97	0.06		0.36
23 Sat		0.52	0.26	0.18		0.32
24 Sun		0.14	0.17	0.10		0.14
25 Mon		0.02	0.26	0.09		0.12
26 Tue		0.02	0.03	0.05		0.03
27 Wed		0.02	0.05	0.25		0.11
28 Thu		0.07	0.09	0.04		0.07
29 Fri		0.14	0.05	0.04		0.08
30 Sat		0.02	0.04	0.08		0.05
31 Sun		0.01	0.03	0.01		0.02
MIN		0.00	0.00	0.00	-	0.00
MAX		1.26	0.97	0.71	-	0.68
AVG		0.17	0.20	0.14	-	0.17
SUM		5.20	6.24	4.22	-	5.22
GeoMean		0.07	0.13	0.09	-	0.11

May 2015

Hydrogen Sulfide Data

		Hydrogen Sulfide Weather Data			Hydrogen Sulfide Inside Plant Data								
	03 Hydorgen Sulfide Log	400011 - Wind Direction Direction	400012 - Outside Temp Deg F	400013 - Outside Condition Condition	400021 - Front Door ppm	400022 - Head Works ppm	400023 - Primary Tank No. 1 ppm	400024 - Primary Tank No. 2 ppm	400025 - Gravity Thickener ppm	400026 - Aeration Tanks ppm	400027 - Rotory Sludge Thickener Room ppm	400028 - Scrubber In ppm	400029 - Roof Exhaust Scrubber Out ppm
1 Fri		ene-9	44	cloudy	0.000	1.900		0.190	4.100	0.000		0.820	0.000
2 Sat		ese-2	39	cloudy	0.000	0.370		0.180	1.040	0.000	0.001	0.440	0.000
3 Sun		s-6	44	cloudy	0.000	7.200		0.005	7.700	0.010	0.000	2.700	0.001
4 Mon		ssw-10	51	sun	0.190	1.800		1.170	0.180	0.007	0.000	2.100	0.002
5 Tue		wsw-14	63	cloudy	0.000	1.300		0.440	18.000	0.050	0.000	2.300	0.003
6 Wed		nne-5	57	cloudy	0.010	8.100		1.800	40.000	0.006	0.002	12.000	0.068
7 Thu		wsw-7	55	sun	0.004	42.000		1.200	35.000	0.006	0.002	8.800	0.034
8 Fri		sw-2	58	sun	0.002	9.200		4.100	22.000	0.009	0.003	12.000	2.000
9 Sat		n-3	46	cloudy	0.005	3.100		1.600	25.000	0.006	0.004	9.000	1.070
10 Sun		ssw-8	60	cloudy	0.000	4.100		4.100	30.000	0.009		7.100	0.230
11 Mon		sw-9	63	cloudy	0.004	8.200		4.500	44.000	0.001	0.007	11.000	1.800
12 Tue		ese-4	50	cloudy	0.001	4.000		30.000	23.000	0.020	0.005	14.000	2.700
13 Wed		wnw-17	61	cloudy	0.001	1.600		7.100	6.100	0.036	0.005	4.900	0.072
14 Thu		e-11	51	cloudy	0.003	9.100		6.800	27.000	0.009	0.007	6.100	0.075
15 Fri		e-9	69	cloudy	0.003	9.600		0.760	16.000	0.009	0.005	7.500	0.160
16 Sat		ssw-10	56	cloudy	0.000	5.200		0.006	23.000	0.002	0.007	11.000	0.870
17 Sun		ssw-4	56	cloudy	0.005	25.000		1.300	19.000	0.006	0.022	11.000	3.000
18 Mon		ene-9	53	cloudy	0.004	5.700		3.400		0.002		15.000	5.200
19 Tue		ssw-12	53	Cloudy	0.000	6.900		2.000	21.000	0.002	0.002	15.000	4.100
20 Wed		wnw-11	55	fair	0.003	5.400		14.000	28.000	0.013		22.000	1.400
21 Thu		w-7	48	cloudy	0.007	5.400		0.790		0.011		13.000	0.160
22 Fri		sw-7	52	cloudy	0.008	66.000		2.000	39.000	0.006		10.200	0.190
23 Sat		nw-13	45	sun	0.008	12.000		0.200	39.000	0.010		7.400	0.099
24 Sun		Sw-12	54	Cloudy	0.009	1.100		7.000	9.400	0.011	0.011	3.100	0.009
25 Mon		ssw-9	56	cloudy	0.003	17.000		3.000	23.000	0.120		11.000	0.058
26 Tue		ssw-17	62	cloudy	0.001	7.900		3.800	0.520	0.004		0.850	0.002
27 Wed		sw-13	62	cloudy	0.001	3.500		4.700	35.000	0.007		9.700	0.045
28 Thu		ssw-10	62	Cloudy.	0.002	2.200		2.800	3.900	0.005	0.005	2.200	0.004
29 Fri		Nnw-5	60	Sunny	0.002	2.300		2.300	1.700	0.010	0.002	0.920	0.004
30 Sat		s-8	59	cloudy	0.000	1.300		0.000	0.069	0.001		0.260	0.003
31 Sun		ssw-11	67	cloudy	0.001	4.300		6.400	3.700	0.000		5.200	0.043
MIN		-	39	-	0.000	0.370	-	0.000	0.069	0.000	0.000	0.260	0.000
MAX		-	69	-	0.190	66.000	-	30.000	44.000	0.120	0.022	22.000	5.200
AVG		-	55	-	0.009	9.122	-	3.795	18.807	0.013	0.005	7.696	0.755
SUM		-	1,711	-	0.277	282.770	-	117.641	545.409	0.388	0.090	238.590	23.402
GeoMean		-	55	-	0.015	4.964	-	1.446	9.408	0.012	0.010	5.040	0.106

Hydrogen Sulfide Data

			Hydrogen Sulfide Outside Plant Data						
	03 Hydorgen Sulfide Log	400030 - % Removal %	400031 - Cemetery Flag Pole ppm	400032 - Garage At Cemetery ppm	400033 - Duck Lane ppm	400034 - Duck Lane And Nantasket Ave ppm	400035 - Seawall Across From Plant ppm	400036 - Fire Hydrant Across Inland Bay Side ppm	400037 - Front Of Aeration Bayside ppm
1 Fri		100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2 Sat		100.0	0.002	0.001	0.000	0.000	0.000	0.000	0.001
3 Sun		100.0	0.009	0.004	0.004	0.002	0.002	0.004	0.002
4 Mon		99.9	0.008	0.011	0.015	0.014	0.016	0.015	0.014
5 Tue		99.9	0.000	0.002	0.000	0.001	0.004	0.008	0.000
6 Wed		99.4	0.012	0.008	0.009	0.011	0.013	0.026	0.006
7 Thu		99.6	0.004	0.005	0.006	0.007	0.005	0.007	0.005
8 Fri		83.3	0.002	0.002	0.002	0.001	0.002	0.002	0.002
9 Sat		88.1	0.001	0.002	0.001	0.001	0.001	0.002	0.001
10 Sun		96.8	0.000	0.000	0.000	0.000	0.002	0.016	0.000
11 Mon		83.6	0.005	0.004	0.006	0.007	0.015	0.023	0.005
12 Tue		80.7	0.000	0.000	0.000	0.000	0.001	0.002	0.004
13 Wed		98.5	0.002	0.001	0.002	0.001	0.002	0.002	0.002
14 Thu		98.8	0.004	0.003	0.003	0.003	0.004	0.004	0.004
15 Fri		97.9	0.008	0.007	0.005	0.008	0.005	0.005	0.005
16 Sat		92.1	0.000	0.001	0.001	0.001	0.001	0.002	0.001
17 Sun		72.7	0.002	0.005	0.001	0.002	0.002	0.003	0.004
18 Mon		65.3	0.011	0.007	0.008	0.010	0.013	0.150	0.006
19 Tue		72.7	0.001	0.000	0.000	0.000	0.002	0.001	0.001
20 Wed		93.6	0.004	0.002	0.003	0.004	0.005	0.007	0.004
21 Thu		98.8	0.005	0.007	0.008	0.011	0.013	0.130	0.006
22 Fri		98.1	0.010	0.010	0.011	0.012	0.012	0.140	0.011
23 Sat		98.7	0.005	0.005	0.006	0.005	0.006	0.007	0.007
24 Sun		99.7	0.005	0.007	0.007	0.007	0.007	0.008	0.008
25 Mon		99.5	0.002	0.002	0.001	0.001	0.002	0.001	0.002
26 Tue		99.8	0.003	0.003	0.004	0.001	0.001	0.002	0.002
27 Wed		99.5	0.005	0.004	0.004	0.004	0.004	0.004	0.007
28 Thu		99.8	0.004	0.003	0.003	0.003	0.003	0.004	0.004
29 Fri		99.6	0.002	0.001	0.001	0.003	0.003	0.003	0.003
30 Sat		98.8	0.003	0.002	0.002	0.001	0.001	0.002	0.003
31 Sun		99.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN		65.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX		100.0	0.012	0.011	0.015	0.014	0.016	0.150	0.014
AVG		94.0	0.004	0.004	0.004	0.004	0.005	0.019	0.004
SUM		2,914.4	0.119	0.109	0.113	0.121	0.147	0.580	0.120
GeoMean		93.5	0.011	0.008	0.012	0.010	0.006	0.010	0.007