



Gelman Sciences, Inc. d/b/a  
Pall Life Sciences  
642 South Wagner Road  
Ann Arbor, MI 48103  
734.436.4025 phone  
734.436.4040 fax

March 11, 2019

Claire Dijak  
Surface Water Quality Division  
Michigan Department of Environmental Quality  
301 East Louis Glick Highway  
Jackson, Michigan 49201

**Re: Monitoring Report # 262  
February 1 – February 28, 2019**

Dear Ms. Dijak:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of February 1 through February 28, 2019.

Should you have any questions or concerns regarding this report, please contact me at 386-562-0176.

Sincerely,

A handwritten signature in black ink, appearing to read "L. Gelb", followed by a long horizontal line extending to the right.

Lawrence J. Gelb  
Sr. Director Global EHS

cc: Dan Hamel, MDEQ  
Supervisor, Scio Twp.  
City of Ann Arbor

**EXTRACTION DATA**

- TABLE #1 - UNIT "D2" UPGRADIENT EXTRACTION DATA**
- TABLE #2 - UNIT "D2" DOWNGRADIENT EXTRACTION DATA**
- TABLE #3 - CORE AREA EXTRACTION DATA**
- TABLE #4 - MARSHY AREA EXTRACTION DATA**
- TABLE #5 - SOUTHWEST AREA EXTRACTION DATA**
- TABLE #6 - UNIT "E" EXTRACTION DATA**
- TABLE #7 - LITTLE LAKE AREA SYSTEM DATA**
- TABLE #8 - INDIVIDUAL PURGE WELL CONCENTRATIONS**
- TABLE #9 - RED POND DATA**
- TABLE #10 - RED POND CONCENTRATIONS**

**OZONE OPERATION DATA**

- TABLE #11 - OZONE OPERATION REPORT**

**DISCHARGE DATA**

- TABLE #12 - GREEN POND / DISCHARGE DATA**
- TABLE #13 - DAILY DISCHARGE MONITORING REPORT**

**UNIT D2 UPGRADIENT EXTRACTION DATA**

Month of: Feb-19

Date	TW-21			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
	Fri-2/1/19	93,412	65	24.00	65
Sat-2/2/19	93,497	65	24.00	65	93,497
Sun-2/3/19	93,597	65	24.00	65	93,597
Mon-2/4/19	93,603	65	24.00	65	93,603
Tue-2/5/19	93,548	65	24.00	65	93,548
Wed-2/6/19	29,601	65	7.60	65	29,601
Thu-2/7/19	19,197	30	10.63	30	19,197
Fri-2/8/19	61,795	43	24.00	43	61,795
Sat-2/9/19	71,844	50	24.00	50	71,844
Sun-2/10/19	71,848	50	24.00	50	71,848
Mon-2/11/19	82,695	57	24.00	57	82,695
Tue-2/12/19	86,287	60	24.00	60	86,287
Wed-2/13/19	86,249	60	24.00	60	86,249
Thu-2/14/19	86,304	60	24.00	60	86,304
Fri-2/15/19	86,324	60	24.00	60	86,324
Sat-2/16/19	86,293	60	24.00	60	86,293
Sun-2/17/19	86,291	60	24.00	60	86,291
Mon-2/18/19	86,290	60	24.00	60	86,290
Tue-2/19/19	86,265	60	24.00	60	86,265
Wed-2/20/19	86,297	60	24.00	60	86,297
Thu-2/21/19	62,089	60	17.28	60	62,089
Fri-2/22/19	86,365	60	24.00	60	86,365
Sat-2/23/19	86,356	60	24.00	60	86,356
Sun-2/24/19	86,330	60	24.00	60	86,330
Mon-2/25/19	86,233	60	24.00	60	86,233
Tue-2/26/19	60,820	60	16.93	60	60,820
Wed-2/27/19	86,195	60	24.00	60	86,195
Thu-2/28/19	86,251	60	24.00	60	86,251
<b>TOTALS</b>	<b>2,221,876</b>	<b>59</b>	<b>628.44</b>	<b>59</b>	<b>2,221,876</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>2,221,876 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>28 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>55.11 GPM</b>

02/06/19 - 02/07/19 - TW-21 was shut down for piping upgrade at Porter St. pumping station.  
 02/21/19 - TW-21 was shut down for Red Pumphouse maintenance.  
 02/26/19 - TW-21 was shut down for communications maintenance.

**UNIT D2 DOWNGRADIENT EXTRACTION DATA**

Month of: Feb-19

Date	LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Fri-2/1/19	144,148	100	24.00	100	144,148
Sat-2/2/19	131,437	100	21.86	91	131,437
Sun-2/3/19	144,157	100	24.00	100	144,157
Mon-2/4/19	144,269	100	24.00	100	144,269
Tue-2/5/19	144,204	100	24.00	100	144,204
Wed-2/6/19	51,590	100	8.60	36	51,590
Thu-2/7/19	-	-	-	0	-
Fri-2/8/19	88,869	100	14.78	62	88,869
Sat-2/9/19	144,212	100	24.00	100	144,212
Sun-2/10/19	144,266	100	24.00	100	144,266
Mon-2/11/19	144,232	100	24.00	100	144,232
Tue-2/12/19	144,215	100	24.00	100	144,215
Wed-2/13/19	144,245	100	24.00	100	144,245
Thu-2/14/19	136,716	100	22.76	95	136,716
Fri-2/15/19	144,196	100	24.00	100	144,196
Sat-2/16/19	144,274	100	24.00	100	144,274
Sun-2/17/19	144,262	100	24.00	100	144,262
Mon-2/18/19	141,197	100	23.50	98	141,197
Tue-2/19/19	144,195	100	24.00	100	144,195
Wed-2/20/19	144,180	100	24.00	100	144,180
Thu-2/21/19	103,742	100	17.26	72	103,742
Fri-2/22/19	144,277	100	24.00	100	144,277
Sat-2/23/19	144,177	100	24.00	100	144,177
Sun-2/24/19	144,219	100	24.00	100	144,219
Mon-2/25/19	144,223	100	24.00	100	144,223
Tue-2/26/19	101,869	100	16.96	71	101,869
Wed-2/27/19	144,238	100	24.00	100	144,238
Thu-2/28/19	144,224	100	24.00	100	144,224
<b>TOTALS</b>	<b>3,639,833</b>	<b>100</b>	<b>605.72</b>	<b>90</b>	<b>3,639,833</b>

TOTAL VOLUME EXTRACTED :	3,639,833 GALLONS
DAYS IN MONTH :	28 DAYS
MONTHLY AVERAGE FLOW RATE :	90.27 GPM

02/02/19 - LB-4 was shut down briefly due to a power loss in the area.  
 02/06/19 - 02/08/19 - LB-4 was shut down for piping upgrade at Porter St. pumping station.  
 02/14/19 - LB-4 was shut down briefly due to a power loss in the area.  
 02/21/19 - LB-4 was shut down briefly for Red Pumphouse maintenance.  
 02/26/19 - LB-4 was shut down for communications maintenance.

**CORE AREA EXTRACTION DATA**

Month of: **Feb-19**

Core Area Well Extraction							Daily	Daily
Date	TW-2 (Dolph)			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Fri-2/1/19	19,543	14	24.00	43,124	30	24.00	44	62,667
Sat-2/2/19	19,586	14	24.00	43,043	30	24.00	44	62,857
Sun-2/3/19	19,661	14	24.00	42,898	30	24.00	43	62,559
Mon-2/4/19	19,724	14	24.00	43,577	30	24.00	44	63,301
Tue-2/5/19	19,694	14	24.00	43,465	30	24.00	44	63,159
Wed-2/6/19	19,675	14	24.00	43,441	30	24.00	44	63,245
Thu-2/7/19	19,699	14	24.00	43,270	30	24.00	44	63,048
Fri-2/8/19	18,755	13	24.00	43,400	30	24.00	43	62,186
Sat-2/9/19	18,540	13	24.00	43,561	30	24.00	43	62,101
Sun-2/10/19	18,270	13	24.00	43,539	30	24.00	43	61,883
Mon-2/11/19	18,838	13	24.00	43,500	30	24.00	43	62,402
Tue-2/12/19	19,024	13	24.00	43,437	30	24.00	43	62,461
Wed-2/13/19	19,026	13	24.00	43,348	30	24.00	43	62,374
Thu-2/14/19	19,111	13	24.00	43,223	30	24.00	43	62,334
Fri-2/15/19	18,335	13	24.00	43,480	30	24.00	43	61,815
Sat-2/16/19	14,305	10	24.00	43,346	30	24.00	40	57,651
Sun-2/17/19	15,528	11	24.00	43,336	30	24.00	41	58,864
Mon-2/18/19	15,855	11	24.00	43,092	30	24.00	41	58,947
Tue-2/19/19	15,445	11	24.00	42,958	30	24.00	41	58,403
Wed-2/20/19	14,820	11	23.23	40,255	30	22.48	38	55,075
Thu-2/21/19	12,664	12	17.32	23,519	30	13.15	25	36,183
Fri-2/22/19	16,030	11	24.00	43,126	30	24.00	41	59,156
Sat-2/23/19	16,635	12	24.00	43,367	30	24.00	42	60,002
Sun-2/24/19	17,075	12	24.00	43,054	30	24.00	42	60,129
Mon-2/25/19	16,295	11	24.00	43,307	30	24.00	41	59,602
Tue-2/26/19	12,116	12	16.98	30,343	30	16.93	29	42,459
Wed-2/27/19	17,226	12	24.00	43,573	30	24.00	42	60,799
Thu-2/28/19	17,525	12	24.00	43,374	30	24.00	42	60,899
<b>TOTALS</b>	<b>489,000</b>	<b>12</b>	<b>657.53</b>	<b>1,176,956</b>	<b>30</b>	<b>652.57</b>	<b>41</b>	<b>1,666,561</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>1,666,561 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>28 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>41.33 GPM</b>

02/20/19 - TW-20 was shut down briefly for Red Pumphouse maintenance.  
 02/21/19 - Dolph & TW-21 were shut down for Red Pumphouse maintenance.  
 02/26/19 - Dolph & TW-21 were shut down for communications maintenance.

**MARSHY AREA EXTRACTION DATA**

**Month of: Feb-19**

<b>Marshy Well Extraction</b>				<b>Daily Flow</b>	<b>Daily Total</b>
<b>Date</b>	<b>PW-1 Gallons</b>	<b>GPM</b>	<b>Run Hrs.</b>	<b>GPM</b>	<b>Gallons</b>
Fri-2/1/19	2,113	1	24.00	1	2,113
Sat-2/2/19	2,075	1	24.00	1	2,075
Sun-2/3/19	2,067	1	24.00	1	2,067
Mon-2/4/19	1,242	1	14.27	1	1,242
Tue-2/5/19	-	-	-	-	-
Wed-2/6/19	-	-	-	-	-
Thu-2/7/19	1,355	1	16.05	1	1,355
Fri-2/8/19	2,033	1	24.00	1	2,033
Sat-2/9/19	2,024	1	24.00	1	2,024
Sun-2/10/19	2,035	1	24.00	1	2,035
Mon-2/11/19	2,036	1	24.00	1	2,036
Tue-2/12/19	2,041	1	24.00	1	2,041
Wed-2/13/19	2,062	1	24.00	1	2,062
Thu-2/14/19	2,062	1	24.00	1	2,062
Fri-2/15/19	2,062	1	24.00	1	2,062
Sat-2/16/19	2,063	1	24.00	1	2,063
Sun-2/17/19	2,056	1	24.00	1	2,056
Mon-2/18/19	1,941	1	23.32	1	1,941
Tue-2/19/19	1,697	1	24.00	1	1,697
Wed-2/20/19	1,586	1	22.48	1	1,586
Thu-2/21/19	1,120	1	16.28	1	1,120
Fri-2/22/19	1,644	1	24.00	1	1,644
Sat-2/23/19	1,660	1	24.00	1	1,660
Sun-2/24/19	1,670	1	24.00	1	1,670
Mon-2/25/19	1,701	1	24.00	1	1,701
Tue-2/26/19	1,195	1	16.92	1	1,195
Wed-2/27/19	1,718	1	24.00	1	1,718
Thu-2/28/19	1,736	1	24.00	1	1,736
<b>TOTALS</b>	<b>46,994</b>	<b>1</b>	<b>589.32</b>	<b>1</b>	<b>46,994</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>46,994 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>28 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>1.17 GPM</b>

PW-1 was shut down intermittently due to flow fluctuations

**SOUTHWEST AREA EXTRACTION DATA**

**Month of: Feb-19**

<b>SouthWest Well Extraction</b>				<b>Daily</b>	<b>Daily</b>
<b>Date</b>	<b>ACTIVE WELLS</b>			<b>Flow</b>	<b>Total</b>
	<b>Gallons</b>	<b>GPM</b>	<b>Run Hrs.</b>	<b>GPM</b>	<b>Gallons</b>
Fri-2/1/19	41,895	29	24.00	29	41,895
Sat-2/2/19	41,883	29	24.00	29	41,883
Sun-2/3/19	41,808	29	24.00	29	41,808
Mon-2/4/19	41,910	29	24.00	29	41,910
Tue-2/5/19	41,985	29	24.00	29	41,985
Wed-2/6/19	41,936	29	24.00	29	41,936
Thu-2/7/19	41,883	29	24.00	29	41,883
Fri-2/8/19	41,790	29	24.00	29	41,790
Sat-2/9/19	41,773	29	24.00	29	41,773
Sun-2/10/19	41,802	29	24.00	29	41,802
Mon-2/11/19	41,783	29	24.00	29	41,783
Tue-2/12/19	41,750	29	24.00	29	41,750
Wed-2/13/19	41,278	29	24.00	29	41,278
Thu-2/14/19	40,546	28	24.00	28	40,546
Fri-2/15/19	40,449	28	24.00	28	40,449
Sat-2/16/19	40,372	28	24.00	28	40,372
Sun-2/17/19	40,308	28	24.00	28	40,308
Mon-2/18/19	40,225	28	24.00	28	40,225
Tue-2/19/19	40,184	28	24.00	28	40,184
Wed-2/20/19	38,854	27	24.00	27	38,854
Thu-2/21/19	29,479	20	24.00	20	29,479
Fri-2/22/19	40,564	28	24.00	28	40,564
Sat-2/23/19	40,446	28	24.00	28	40,446
Sun-2/24/19	40,318	28	24.00	28	40,318
Mon-2/25/19	40,169	28	24.00	28	40,169
Tue-2/26/19	28,614	20	24.00	20	28,614
Wed-2/27/19	40,499	28	24.00	28	40,499
Thu-2/28/19	40,336	28	24.00	28	40,336
<b>TOTALS</b>	<b>1,124,839</b>	<b>28</b>	<b>672.00</b>	<b>28</b>	<b>1,124,839</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>1,124,839 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>28 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>27.90 GPM</b>

Note: ACTIVE WELLS = TW-28, TW-22

**UNIT "E" EXTRACTION DATA**

Month of: **Feb-19**

Date	TW-18			TW-19			TW-23			Daily Flow GPM	Daily Total Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Fri-2/1/19	219,247	152	24.00	44,932	31	24.00	99,520	69	24.00	253	363,699
Sat-2/2/19	219,181	152	24.00	40,452	31	21.75	90,173	69	21.75	243	349,806
Sun-2/3/19	219,227	152	24.00	44,373	31	24.00	99,406	69	24.00	252	363,006
Mon-2/4/19	219,174	152	24.00	43,612	31	23.68	98,640	69	23.83	251	361,426
Tue-2/5/19	219,231	152	24.00	43,980	31	24.00	99,470	69	24.00	252	362,681
Wed-2/6/19	219,217	152	24.00	11,532	31	6.30	26,115	69	6.30	178	256,864
Thu-2/7/19	219,204	152	24.00	-	-	-	-	-	-	152	219,204
Fri-2/8/19	219,083	152	24.00	31,524	31	17.05	70,760	69	17.08	223	321,367
Sat-2/9/19	219,252	152	24.00	44,467	31	24.00	99,639	69	24.00	252	363,358
Sun-2/10/19	219,232	152	24.00	44,604	31	24.00	99,571	69	24.00	252	363,407
Mon-2/11/19	219,227	152	24.00	44,674	31	24.00	99,567	69	24.00	252	363,468
Tue-2/12/19	219,209	152	24.00	44,717	31	24.00	99,572	69	24.00	252	363,498
Wed-2/13/19	219,007	152	23.98	42,853	31	23.05	95,415	69	23.05	248	357,275
Thu-2/14/19	219,216	152	24.00	44,405	31	23.70	98,321	69	23.68	251	361,942
Fri-2/15/19	219,249	152	24.00	44,949	31	24.00	99,392	69	24.00	252	363,590
Sat-2/16/19	219,236	152	24.00	44,941	31	24.00	99,583	69	24.00	253	363,760
Sun-2/17/19	218,933	152	24.00	44,959	31	24.00	99,631	69	24.00	252	363,523
Mon-2/18/19	219,170	152	24.00	43,342	31	23.40	96,962	69	23.40	250	359,474
Tue-2/19/19	219,062	152	23.97	44,021	31	24.00	99,579	69	24.00	252	362,662
Wed-2/20/19	212,070	152	23.23	42,930	31	23.38	97,019	69	23.40	244	352,019
Thu-2/21/19	157,657	152	17.28	32,699	30	17.87	74,090	69	17.87	184	264,446
Fri-2/22/19	219,153	152	24.00	43,856	30	24.00	99,430	69	24.00	252	362,439
Sat-2/23/19	219,204	152	24.00	44,611	31	23.93	99,163	69	23.93	252	362,978
Sun-2/24/19	219,200	152	24.00	44,771	31	23.95	99,221	69	23.95	252	363,192
Mon-2/25/19	219,231	152	24.00	44,541	31	24.00	99,429	69	24.00	252	363,201
Tue-2/26/19	154,762	152	16.95	31,382	31	16.95	70,318	69	16.95	178	256,462
Wed-2/27/19	219,257	152	24.00	44,407	31	24.00	99,489	69	24.00	252	363,153
Thu-2/28/19	219,302	152	24.00	44,397	31	24.00	99,409	69	24.00	252	363,108
<b>TOTALS</b>	<b>6,004,193</b>	<b>152</b>	<b>657.42</b>	<b>1,121,931</b>	<b>31</b>	<b>605.01</b>	<b>2,508,884</b>	<b>69</b>	<b>605.19</b>	<b>216</b>	<b>9,635,008</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>9,635,008 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>28 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>238.96 GPM</b>

02/02/19 - TW-19 & TW-23 were shut down briefly due to a power loss in the area.  
 02/06/19 - 02/08/19 - TW-19 and TW-23 were shut down for piping upgrade at Porter St. pumping station.  
 02/21/19 - TW-18, TW-19 & TW-23 were shut down for Red Pumping house maintenance.  
 02/26/19 - TW-18, TW-19 & TW-23 were shut down for communications maintenance.



**TABLE #7**

**Little Lake Area System**

MW-53i	
Date	1,4-Dioxane ug/L
11/07/18	42
12/03/18	77
01/14/19	26
02/05/19	37

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
11/12/18	66
12/06/18	88
01/29/19	73
02/06/19	65



**TABLE #8**

**INDIVIDUAL PURGE WELL CONCENTRATIONS**

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
DOLPH-02-04-19-13:14-1	02/04/19	130
TW-20-02-04-19-13:25-1	02/04/19	910
LB-4-02-04-19-13:31-1	02/04/19	440
TW-21-02-04-19-13:50-1	02/04/19	220
TW-18-02-04-19-13:16-1	02/04/19	240
TW-19-02-04-19-13:40-1	02/04/19	450
TW-23-02-04-19-13:30-1	02/04/19	430
PW-1-02-04-19-13:12-1	02/04/19	930
TW-22-02-04-19-13:00-1	02/04/19	470
TW-28-02-04-19-13:02-1	02/04/19	660

**RED POND DATA**

**Month of: Feb-19**

Date	Time	Notes	Red Pond				
			Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Fri-2/1/19	04:00:00		Y	6.8	-	24.00	492
Sat-2/2/19	04:00:00	(1)		6.8	-	24.00	473
Sun-2/3/19	04:00:00	(1)		6.7	-	24.00	491
Mon-2/4/19	04:00:00		Y	6.8	-	24.00	490
Tue-2/5/19	04:00:00		Y	6.9	-	24.00	490
Wed-2/6/19	04:00:00		Y	7.0	-	24.00	308
Thu-2/7/19	04:00:00		Y	3.9	-	23.90	240
Fri-2/8/19	04:00:00		Y	3.8	-	24.00	401
Sat-2/9/19	04:00:00	(1)		3.7	-	24.00	476
Sun-2/10/19	04:00:00	(1)		3.7	-	24.00	476
Mon-2/11/19	04:00:00		Y	3.5	-	24.00	484
Tue-2/12/19	04:00:00		Y	4.0	-	24.00	486
Wed-2/13/19	04:00:00		Y	4.6	-	24.00	482
Thu-2/14/19	04:00:00		Y	5.2	-	24.00	479
Fri-2/15/19	04:00:00		Y	5.2	-	24.00	485
Sat-2/16/19	04:00:00	(1)		5.1	-	24.00	482
Sun-2/17/19	04:00:00	(1)		5.1	-	24.00	483
Mon-2/18/19	04:00:00		Y	5.1	-	24.00	478
Tue-2/19/19	04:00:00		Y	5.0	-	24.00	482
Wed-2/20/19	04:00:00		Y	5.0	-	24.00	471
Thu-2/21/19	04:00:00		Y	10.3	-	24.00	345
Fri-2/22/19	04:00:00		Y	4.7	-	24.00	482
Sat-2/23/19	04:00:00	(1)		4.6	-	24.00	483
Sun-2/24/19	04:00:00	(1)		4.6	-	24.00	483
Mon-2/25/19	04:00:00		Y	4.6	-	24.00	483
Tue-2/26/19	04:00:00		Y	5.0	-	24.00	341
Wed-2/27/19	04:00:00		Y	5.1	-	24.00	484
Thu-2/28/19	04:00:00		Y	5.0	-	24.00	484
<b>TOTALS</b>			-	-	-	<b>672</b>	

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.



## TABLE #10

### RED POND CONCENTRATIONS

Concentrations of 1,4-Dioxane found in the Red Pond

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-02-04-19-14:00-1	2/4/2019	380
Red Pond-02-11-19-10:19-1	2/11/2019	370
Red Pond-02-18-19-08:21-1	2/18/2019	360
Red Pond-02-25-19-08:43-1	2/25/2019	370

Analyte value quantified from a dilution, reporting limit is raised to reflect dilution

**OZONE OPERATION REPORT**

**Month of: Feb-19**

Date	Time	Notes	SYSTEM-1A		SYSTEM-1B		SYSTEM-2A		SYSTEM-2B	
			Flow GPM	Run Hours	Flow GPM	Run Hours	Flow GPM	Run Hours	Flow GPM	Run Hours
2019-02-01	04:00:00		240	24.00	0	0.00	242	24.00	0	0.00
2019-02-02	04:00:00	(1)	239	24.00	0	0.00	241	23.45	0	0.00
2019-02-03	04:00:00	(1)	239	24.00	0	0.00	239	23.83	0	0.00
2019-02-04	04:00:00		240	24.00	0	0.00	239	23.63	0	0.00
2019-02-05	04:00:00		240	24.00	0	0.00	237	23.65	0	0.00
2019-02-06	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-02-07	04:00:00		240	23.92	0	0.00	239	4.02	0	0.00
2019-02-08	04:00:00		240	24.00	0	0.00	0	15.58	0	0.00
2019-02-09	04:00:00	(1)	240	24.00	0	0.00	238	23.22	0	0.00
2019-02-10	04:00:00	(1)	240	24.00	0	0.00	240	23.77	0	0.00
2019-02-11	04:00:00		240	21.62	0	0.00	241	23.75	0	0.00
2019-02-12	04:00:00		240	22.40	0	0.00	241	22.08	0	0.00
2019-02-13	04:00:00		240	21.03	0	0.00	241	20.92	0	0.00
2019-02-14	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-02-15	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-02-16	04:00:00	(1)	240	24.00	0	0.00	240	23.68	0	0.00
2019-02-17	04:00:00	(1)	240	24.00	0	0.00	240	23.73	0	0.00
2019-02-18	04:00:00		240	24.00	0	0.00	239	23.52	0	0.00
2019-02-19	04:00:00		240	24.00	0	0.00	240	23.40	0	0.00
2019-02-20	04:00:00		240	24.00	0	0.00	240	22.97	0	0.00
2019-02-21	04:00:00		0	18.03	0	0.00	1	17.82	0	0.00
2019-02-22	04:00:00		240	24.00	0	0.00	241	24.00	0	0.00
2019-02-23	04:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
2019-02-24	04:00:00	(1)	240	24.00	0	0.00	240	23.72	0	0.00
2019-02-25	04:00:00		240	22.70	0	0.00	240	21.67	0	0.00
2019-02-26	04:00:00		240	16.77	0	0.00	240	16.75	0	0.00
2019-02-27	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-02-28	04:00:00		239	24.00	0	0.00	240	24.00	0	0.00

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

- 02/07/19 - 02/08/19 - System 2A was shut down to control the Pond level.
- 02/11-19 & 02/12/19 & 02/13/19 - Treatment was shut down briefly for maintenance.
- 02/20/19 - System 2A was shut down briefly for maintenance.
- 02/21/19 - Treatment was shut down for Red Pumphouse maintenance.
- 02/25/19 - 02/26/19 - Treatment was shut down for communications maintenance.

**GREEN POND / DISCHARGE DATA**

Month of: **Feb-19**

Date	Time	Notes	Green Pond																	
			Pond		Level	Aeration	Influent	Influent	Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Feet	Hours	Hours	GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours		
Fri-2/1/19	04:00:00		Y	-	-	-	-	-	-	-	497	715,046	24.00	-	-	-	-	-	-	
Sat-2/2/19	04:00:00	(1)		-	-	-	-	-	-	-	490	705,590	24.00	-	-	-	-	-	-	
Sun-2/3/19	04:00:00	(1)		-	-	-	-	-	-	-	495	712,709	24.00	-	-	-	-	-	-	
Mon-2/4/19	04:00:00		Y	-	-	-	-	-	-	-	491	706,882	24.00	-	-	-	-	-	-	
Tue-2/5/19	04:00:00		Y	-	-	-	-	-	-	-	492	708,046	24.00	-	-	-	-	-	-	
Wed-2/6/19	04:00:00		Y	-	-	-	-	-	-	-	497	716,102	24.00	-	-	-	-	-	-	
Thu-2/7/19	04:00:00		Y	-	-	-	-	-	-	-	288	414,062	24.00	-	-	-	-	-	-	
Fri-2/8/19	04:00:00		Y	-	-	-	-	-	-	-	409	588,846	24.00	-	-	-	-	-	-	
Sat-2/9/19	04:00:00	(1)		-	-	-	-	-	-	-	484	697,168	24.00	-	-	-	-	-	-	
Sun-2/10/19	04:00:00	(1)		-	-	-	-	-	-	-	495	712,243	24.00	-	-	-	-	-	-	
Mon-2/11/19	04:00:00		Y	-	-	-	-	-	-	-	467	671,998	24.00	-	-	-	-	-	-	
Tue-2/12/19	04:00:00		Y	-	-	-	-	-	-	-	491	656,631	22.30	-	-	-	-	-	-	
Wed-2/13/19	04:00:00		Y	-	-	-	-	-	-	-	497	624,024	20.93	-	-	-	-	-	-	
Thu-2/14/19	04:00:00		Y	-	-	-	-	-	-	-	498	716,592	24.00	-	-	-	-	-	-	
Fri-2/15/19	04:00:00		Y	-	-	-	-	-	-	-	498	716,672	24.00	-	-	-	-	-	-	
Sat-2/16/19	04:00:00	(1)		-	-	-	-	-	-	-	493	710,523	24.00	-	-	-	-	-	-	
Sun-2/17/19	04:00:00	(1)		-	-	-	-	-	-	-	493	710,628	24.00	-	-	-	-	-	-	
Mon-2/18/19	04:00:00		Y	-	-	-	-	-	-	-	490	704,949	24.00	-	-	-	-	-	-	
Tue-2/19/19	04:00:00		Y	-	-	-	-	-	-	-	487	701,382	24.00	-	-	-	-	-	-	
Wed-2/20/19	04:00:00		Y	-	-	-	-	-	-	-	483	695,387	24.00	-	-	-	-	-	-	
Thu-2/21/19	04:00:00		Y	-	-	-	-	-	-	-	496	532,559	17.90	-	-	-	-	-	-	
Fri-2/22/19	04:00:00		Y	-	-	-	-	-	-	-	498	716,832	24.00	-	-	-	-	-	-	
Sat-2/23/19	04:00:00	(1)		-	-	-	-	-	-	-	498	716,942	24.00	-	-	-	-	-	-	
Sun-2/24/19	04:00:00	(1)		-	-	-	-	-	-	-	493	710,138	24.00	-	-	-	-	-	-	
Mon-2/25/19	04:00:00		Y	-	-	-	-	-	-	-	482	654,809	22.63	-	-	-	-	-	-	
Tue-2/26/19	04:00:00		Y	-	-	-	-	-	-	-	497	494,531	16.60	-	-	-	-	-	-	
Wed-2/27/19	04:00:00		Y	-	-	-	-	-	-	-	497	714,975	24.00	-	-	-	-	-	-	
Thu-2/28/19	04:00:00		Y	-	-	-	-	-	-	-	497	715,228	24.00	-	-	-	-	-	-	
<b>TOTALS</b>												<b>18,841,494</b>	<b>652</b>							

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

**TABLE #13**  
**Daily Discharge Monitoring Report**

	(Daily)	Quarterly	(Effluent - Outfall)	(Influent - Red Pond)	(Effluent - Outfall)	(Effluent - Outfall)	(Weekly)	(2 x Week)	(4 x Week)	(4 x Week)	(5 X Week)	(2 X Week)	
PARAMETER NAME	Flow	Total Barium	Total Barium	1,4-Dioxane	1,4-Dioxane	Hydrogen Peroxide	Hydrogen Peroxide	Outfall Observation	Equipment Inspection	pH (Min. Daily)	pH (Max. Daily)	Bromate	Sodium Bisulfite Dose Rate
PARAMETER CODE	50050	1007	1007	82388	82388	00139	00139	84130	46478	00400	00400	99814	99798
MONITORING PT.	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE CODE	1	1	1	1	G	1	1	1	1	1	1	1	1
UNIT	MGD	ug/l	lbs/day	ug/l	mg/l	ug/l	lbs/day	yes/no	yes/no	S.U.	S.U.	ug/l	mg/l
2/1/2019	0.715	*G	*G					no	no	6.6	6.6		77
2/2/2019	0.706												
2/3/2019	0.713			5.7								7.4	
2/4/2019	0.707			5.5	0.380	<50	<0.16	no	yes	6.6	6.6	7.2	50
2/5/2019	0.708			5.5		<50	<0.16	no	no	6.6	6.6	6.2	40
2/6/2019	0.716			5.4		<50	<0.16	yes	yes	6.6	6.6	6.4	36
2/7/2019	0.414			5.2		<50	<0.16	no	no	6.8	6.8	6.1	40
2/8/2019	0.589					<50	<0.16	no	no	6.7	6.7		50
2/9/2019	0.697												
2/10/2019	0.712			5.4								5.8	
2/11/2019	0.672			5.7	0.370	<50	<0.16	no	yes	6.6	6.6	7	30
2/12/2019	0.657			5.8		<50	<0.16	no	no	6.6	6.6	6.9	50
2/13/2019	0.624			6.5		<50	<0.16	yes	yes	6.7	6.7	6.5	30
2/14/2019	0.717			6.5		<50	<0.16	no	no	7.0	7.0	6	48
2/15/2019	0.717					<50	<0.16	no	no	6.9	6.9		30
2/16/2019	0.711												
2/17/2019	0.711			5.5								6.2	
2/18/2019	0.705			5.5	0.360	<50	<0.16	no	yes	7.2	7.2	8	30
2/19/2019	0.701			5.6		<50	<0.16	no	no	6.8	6.8	<5	36
2/20/2019	0.695			5.6		<50	<0.16	yes	yes	7.1	7.1	5.9	25
2/21/2019	0.533			5.8		<50	<0.16	no	no	7.1	7.1	<5	25
2/22/2019	0.717					<50	<0.16	no	no	6.8	6.8		43
2/23/2019	0.717												
2/24/2019	0.710			5.9								5.4	
2/25/2019	0.655			6	0.370	<50	<0.16	no	yes	7.3	7.3	5.6	50
2/26/2019	0.495			5.5		<50	<0.16	no	no	6.9	6.9	6.3	30
2/27/2019	0.715			4.5		<50	<0.16	yes	yes	6.9	6.9	8	40
2/28/2019	0.715			4.5		<50	<0.16	no	no	6.7	6.7	5.9	34
<b>Discharged (mg)</b>	<b>18.841</b>												
<b>Monthly Avg</b>				<b>5.6</b>								<b>5.8</b>	