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May 13, 2019

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

**Re: Monitoring Report # 264
April 1 – April 30, 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 April 1 through April 30, 2019.

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

Sincerely,

A handwritten signature in cursive script that reads "Lawrence J. Gelb".

Lawrence J. Gelb
Sr. Director Global EHS

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



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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: **Apr-19**

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	HW-S Gallons	GPM	Run Hrs.	TW-9 Gallons	GPM	Run Hrs.	TW-5 Gallons	GPM	Run Hrs.	TW-21 Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-4/1/19	-	-	-	-	-	-	-	-	-	86,341	60	24.00	60	86,341
Tue-4/2/19	-	-	-	-	-	-	-	-	-	86,378	60	24.00	60	86,378
Wed-4/3/19	-	-	-	-	-	-	-	-	-	86,355	60	24.00	60	86,355
Thu-4/4/19	-	-	-	-	-	-	-	-	-	86,320	60	24.00	60	86,320
Fri-4/5/19	-	-	-	-	-	-	-	-	-	86,383	60	24.00	60	86,383
Sat-4/6/19	-	-	-	-	-	-	-	-	-	86,484	60	24.00	60	86,484
Sun-4/7/19	-	-	-	-	-	-	-	-	-	86,456	60	24.00	60	86,456
Mon-4/8/19	-	-	-	-	-	-	-	-	-	86,472	60	24.00	60	86,472
Tue-4/9/19	-	-	-	-	-	-	-	-	-	86,429	60	24.00	60	86,429
Wed-4/10/19	-	-	-	-	-	-	-	-	-	86,381	60	24.00	60	86,381
Thu-4/11/19	-	-	-	-	-	-	-	-	-	86,406	60	24.00	60	86,406
Fri-4/12/19	-	-	-	-	-	-	-	-	-	86,396	60	24.00	60	86,396
Sat-4/13/19	-	-	-	-	-	-	-	-	-	86,372	60	24.00	60	86,372
Sun-4/14/19	-	-	-	-	-	-	-	-	-	86,337	60	24.00	60	86,337
Mon-4/15/19	-	-	-	-	-	-	-	-	-	86,415	60	24.00	60	86,415
Tue-4/16/19	-	-	-	-	-	-	-	-	-	86,438	60	24.00	60	86,438
Wed-4/17/19	-	-	-	-	-	-	-	-	-	81,992	60	22.77	57	81,992
Thu-4/18/19	-	-	-	-	-	-	-	-	-	86,491	60	24.00	60	86,491
Fri-4/19/19	-	-	-	-	-	-	-	-	-	86,384	60	24.00	60	86,384
Sat-4/20/19	-	-	-	-	-	-	-	-	-	86,357	60	24.00	60	86,357
Sun-4/21/19	-	-	-	-	-	-	-	-	-	86,494	60	24.00	60	86,494
Mon-4/22/19	-	-	-	-	-	-	-	-	-	86,494	60	24.00	60	86,494
Tue-4/23/19	-	-	-	-	-	-	-	-	-	86,528	60	24.00	60	86,528
Wed-4/24/19	-	-	-	-	-	-	-	-	-	86,520	60	24.00	60	86,520
Thu-4/25/19	-	-	-	-	-	-	-	-	-	86,472	60	24.00	60	86,472
Fri-4/26/19	-	-	-	-	-	-	-	-	-	86,431	60	24.00	60	86,431
Sat-4/27/19	-	-	-	-	-	-	-	-	-	86,428	60	24.00	60	86,428
Sun-4/28/19	-	-	-	-	-	-	-	-	-	86,451	60	24.00	60	86,451
Mon-4/29/19	-	-	-	-	-	-	-	-	-	86,387	60	24.00	60	86,387
Tue-4/30/19	-	-	-	-	-	-	-	-	-	86,417	60	24.00	60	86,417
TOTALS	-	-	-	-	-	-	-	-	-	2,588,209	60	718.77	60	2,588,209

TOTAL VOLUME EXTRACTED :	2,588,209 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	59.91 GPM

04/17/19 - Extraction was shut down briefly for communication upgrade.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: **Apr-19**

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-4/1/19	-		-	144,161	100	24.00	100	144,161
Tue-4/2/19	-		-	144,188	100	24.00	100	144,188
Wed-4/3/19	-		-	144,224	100	24.00	100	144,224
Thu-4/4/19	-		-	144,208	100	24.00	100	144,208
Fri-4/5/19	-		-	144,223	100	24.00	100	144,223
Sat-4/6/19	-		-	144,185	100	24.00	100	144,185
Sun-4/7/19	-		-	144,233	100	24.00	100	144,233
Mon-4/8/19	-		-	144,194	100	24.00	100	144,194
Tue-4/9/19	-		-	144,263	100	24.00	100	144,263
Wed-4/10/19	-		-	141,380	100	23.53	98	141,380
Thu-4/11/19	-		-	144,252	100	24.00	100	144,252
Fri-4/12/19	-		-	144,244	100	24.00	100	144,244
Sat-4/13/19	-		-	144,219	100	24.00	100	144,219
Sun-4/14/19	-		-	144,295	100	24.00	100	144,295
Mon-4/15/19	-		-	144,177	100	24.00	100	144,177
Tue-4/16/19	-		-	144,156	100	24.00	100	144,156
Wed-4/17/19	-		-	136,326	100	22.70	95	136,326
Thu-4/18/19	-		-	144,165	100	24.00	100	144,165
Fri-4/19/19	-		-	144,169	100	24.00	100	144,169
Sat-4/20/19	-		-	144,198	100	24.00	100	144,198
Sun-4/21/19	-		-	144,192	100	24.00	100	144,192
Mon-4/22/19	-		-	144,183	100	24.00	100	144,183
Tue-4/23/19	-		-	140,810	100	23.45	98	140,810
Wed-4/24/19	-		-	144,195	100	24.00	100	144,195
Thu-4/25/19	-		-	144,171	100	24.00	100	144,171
Fri-4/26/19	-		-	144,201	100	24.00	100	144,201
Sat-4/27/19	-		-	144,221	100	24.00	100	144,221
Sun-4/28/19	-		-	144,239	100	24.00	100	144,239
Mon-4/29/19	-		-	144,266	100	24.00	100	144,266
Tue-4/30/19	-		-	144,229	100	24.00	100	144,229
TOTALS	-		-	4,312,167	100	717.68	100	4,312,167

TOTAL VOLUME EXTRACTED :	4,312,167 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	99.82 GPM

04/17/19 - Extraction was shut down briefly for communication upgrade.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: **Apr-19**

Core Area Well Extraction																			Daily	Daily
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			Flow GPM	Total Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Mon-4/1/19	-	-	-	18,579	13	24.00	-	-	-	-	-	-	-	-	-	42,950	30	24.00	43	61,529
Tue-4/2/19	-	-	-	18,820	13	24.00	-	-	-	-	-	-	-	-	-	43,211	30	24.00	43	62,031
Wed-4/3/19	-	-	-	18,843	13	24.00	-	-	-	-	-	-	-	-	-	43,299	30	24.00	43	62,142
Thu-4/4/19	-	-	-	18,800	13	24.00	-	-	-	-	-	-	-	-	-	42,937	30	24.00	43	61,737
Fri-4/5/19	-	-	-	18,838	13	24.00	-	-	-	-	-	-	-	-	-	42,894	30	24.00	43	61,732
Sat-4/6/19	-	-	-	18,819	13	24.00	-	-	-	-	-	-	-	-	-	43,514	30	24.00	43	62,333
Sun-4/7/19	-	-	-	18,760	13	24.00	-	-	-	-	-	-	-	-	-	43,432	30	24.00	43	62,192
Mon-4/8/19	-	-	-	18,777	13	24.00	-	-	-	-	-	-	-	-	-	43,313	30	24.00	43	62,090
Tue-4/9/19	-	-	-	18,716	13	24.00	-	-	-	-	-	-	-	-	-	43,152	30	24.00	43	61,868
Wed-4/10/19	-	-	-	18,772	13	24.00	-	-	-	-	-	-	-	-	-	43,312	30	24.00	43	62,084
Thu-4/11/19	-	-	-	18,779	13	24.00	-	-	-	-	-	-	-	-	-	43,403	30	24.00	43	62,182
Fri-4/12/19	-	-	-	18,662	13	24.00	-	-	-	-	-	-	-	-	-	43,362	30	24.00	43	62,024
Sat-4/13/19	-	-	-	18,841	13	24.00	-	-	-	-	-	-	-	-	-	43,274	30	24.00	43	62,115
Sun-4/14/19	-	-	-	19,022	13	24.00	-	-	-	-	-	-	-	-	-	42,856	30	24.00	43	61,878
Mon-4/15/19	-	-	-	18,909	13	24.00	-	-	-	-	-	-	-	-	-	43,126	30	24.00	43	62,035
Tue-4/16/19	-	-	-	18,763	13	24.00	-	-	-	-	-	-	-	-	-	43,207	30	24.00	43	61,970
Wed-4/17/19	-	-	-	18,343	13	22.77	-	-	-	-	-	-	-	-	-	40,833	30	22.75	41	59,176
Thu-4/18/19	-	-	-	19,415	14	23.68	-	-	-	-	-	-	-	-	-	43,175	30	24.00	43	62,590
Fri-4/19/19	-	-	-	19,426	14	23.47	-	-	-	-	-	-	-	-	-	42,817	30	24.00	43	62,243
Sat-4/20/19	-	-	-	19,429	14	23.68	-	-	-	-	-	-	-	-	-	43,165	30	24.00	43	62,594
Sun-4/21/19	-	-	-	19,426	13	24.00	-	-	-	-	-	-	-	-	-	43,371	30	24.00	44	62,797
Mon-4/22/19	-	-	-	19,426	13	24.00	-	-	-	-	-	-	-	-	-	43,371	30	24.00	44	62,797
Tue-4/23/19	-	-	-	19,343	13	24.00	-	-	-	-	-	-	-	-	-	43,384	30	24.00	44	62,727
Wed-4/24/19	-	-	-	19,339	13	24.00	-	-	-	-	-	-	-	-	-	43,329	30	24.00	44	62,668
Thu-4/25/19	-	-	-	19,411	13	24.00	-	-	-	-	-	-	-	-	-	42,964	30	24.00	43	62,375
Fri-4/26/19	-	-	-	19,404	13	24.00	-	-	-	-	-	-	-	-	-	43,098	30	24.00	43	62,502
Sat-4/27/19	-	-	-	19,467	14	24.00	-	-	-	-	-	-	-	-	-	43,441	30	24.00	44	62,908
Sun-4/28/19	-	-	-	19,463	14	24.00	-	-	-	-	-	-	-	-	-	43,495	30	24.00	44	62,958
Mon-4/29/19	-	-	-	19,456	14	24.00	-	-	-	-	-	-	-	-	-	43,469	30	24.00	44	62,925
Tue-4/30/19	-	-	-	19,477	14	24.00	-	-	-	-	-	-	-	-	-	43,444	30	24.00	44	62,921
TOTALS	-	-	-	571,525	13	717.60	-	-	-	-	-	-	-	-	-	1,294,598	30	718.75	43	1,866,123

TOTAL VOLUME EXTRACTED :	1,866,123 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	43.20 GPM

04/17/19 - Extraction was shut down briefly for communication upgrade.

MARSHY AREA EXTRACTION DATA

Month of: **Apr-19**

Marshy Well Extraction				Daily	Daily
Date	PW-1 Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-4/1/19	1,632	1	24.00	1	1,632
Tue-4/2/19	1,623	1	24.00	1	1,623
Wed-4/3/19	1,625	1	24.00	1	1,625
Thu-4/4/19	1,633	1	24.00	1	1,633
Fri-4/5/19	1,633	1	24.00	1	1,633
Sat-4/6/19	1,625	1	24.00	1	1,625
Sun-4/7/19	1,620	1	24.00	1	1,620
Mon-4/8/19	1,611	1	24.00	1	1,611
Tue-4/9/19	1,618	1	24.00	1	1,618
Wed-4/10/19	1,620	1	24.00	1	1,620
Thu-4/11/19	1,617	1	24.00	1	1,617
Fri-4/12/19	1,616	1	24.00	1	1,616
Sat-4/13/19	1,617	1	24.00	1	1,617
Sun-4/14/19	1,629	1	24.00	1	1,629
Mon-4/15/19	1,683	1	24.00	1	1,683
Tue-4/16/19	1,677	1	24.00	1	1,677
Wed-4/17/19	1,616	1	22.77	1	1,616
Thu-4/18/19	1,720	1	24.00	1	1,720
Fri-4/19/19	1,743	1	24.00	1	1,743
Sat-4/20/19	1,740	1	24.00	1	1,740
Sun-4/21/19	1,728	1	24.00	1	1,728
Mon-4/22/19	1,728	1	24.00	1	1,728
Tue-4/23/19	1,724	1	24.00	1	1,724
Wed-4/24/19	1,728	1	24.00	1	1,728
Thu-4/25/19	1,720	1	24.00	1	1,720
Fri-4/26/19	1,723	1	24.00	1	1,723
Sat-4/27/19	1,730	1	24.00	1	1,730
Sun-4/28/19	1,733	1	24.00	1	1,733
Mon-4/29/19	1,746	1	24.00	1	1,746
Tue-4/30/19	1,764	1	24.00	1	1,764
TOTALS	50,222	1	718.77	1	50,222

TOTAL VOLUME EXTRACTED :	50,222 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	1.16 GPM

04/17/19 - Extraction was shut down briefly for communication upgrade.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Apr-19**

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-4/1/19	27,779	19	24.00	19	27,779
Tue-4/2/19	39,272	27	24.00	27	39,272
Wed-4/3/19	39,088	27	24.00	27	39,088
Thu-4/4/19	39,022	27	24.00	27	39,022
Fri-4/5/19	39,040	27	24.00	27	39,040
Sat-4/6/19	38,965	27	24.00	27	38,965
Sun-4/7/19	38,935	27	24.00	27	38,935
Mon-4/8/19	38,866	27	24.00	27	38,866
Tue-4/9/19	38,750	27	24.00	27	38,750
Wed-4/10/19	38,696	27	24.00	27	38,696
Thu-4/11/19	38,668	27	24.00	27	38,668
Fri-4/12/19	38,574	27	24.00	27	38,574
Sat-4/13/19	38,484	27	24.00	27	38,484
Sun-4/14/19	38,475	27	24.00	27	38,475
Mon-4/15/19	38,383	27	24.00	27	38,383
Tue-4/16/19	38,406	27	24.00	27	38,406
Wed-4/17/19	36,562	25	24.00	25	36,562
Thu-4/18/19	38,577	27	24.00	27	38,577
Fri-4/19/19	38,344	27	24.00	27	38,344
Sat-4/20/19	38,230	27	24.00	27	38,230
Sun-4/21/19	38,173	27	24.00	27	38,173
Mon-4/22/19	38,173	27	24.00	27	38,173
Tue-4/23/19	38,195	27	24.00	27	38,195
Wed-4/24/19	39,195	27	24.00	27	39,195
Thu-4/25/19	39,195	27	24.00	27	39,195
Fri-4/26/19	39,195	27	24.00	27	39,195
Sat-4/27/19	39,195	27	24.00	27	39,195
Sun-4/28/19	39,195	27	24.00	27	39,195
Mon-4/29/19	39,195	27	24.00	27	39,195
Tue-4/30/19	39,195	27	24.00	27	39,195
TOTALS	1,150,022	27	720.00	27	1,150,022

TOTAL VOLUME EXTRACTED :	1,150,022 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	26.62 GPM

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

04/24/19 - 04/30/19 SW extraction gallons were estimated during communication change

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: **Apr-19**

Date	TW-11			TW-12			TW-17			TW-18			TW-19			TW-23			Daily Flow GPM	Daily Total Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Mon-4/1/19	-	-	-	-	-	-	-	-	219,093	152	24.00	44,366	31	24.00	99,515	69	24.00	252	362,974	
Tue-4/2/19	-	-	-	-	-	-	-	-	219,211	152	24.00	44,319	31	24.00	99,364	69	24.00	252	362,894	
Wed-4/3/19	-	-	-	-	-	-	-	-	219,180	152	24.00	43,631	31	23.77	97,967	69	23.65	251	360,778	
Thu-4/4/19	-	-	-	-	-	-	-	-	219,235	152	24.00	43,873	30	24.00	99,314	69	24.00	252	362,422	
Fri-4/5/19	-	-	-	-	-	-	-	-	219,206	152	24.00	43,853	30	24.00	99,307	69	24.00	252	362,366	
Sat-4/6/19	-	-	-	-	-	-	-	-	219,228	152	24.00	44,026	31	23.95	99,235	69	23.95	252	362,489	
Sun-4/7/19	-	-	-	-	-	-	-	-	219,252	152	24.00	44,195	31	24.00	99,437	69	24.00	252	362,884	
Mon-4/8/19	-	-	-	-	-	-	-	-	219,220	152	24.00	44,107	31	24.00	99,322	69	24.00	252	362,649	
Tue-4/9/19	-	-	-	-	-	-	-	-	219,207	152	24.00	42,990	31	23.42	96,879	69	23.43	249	359,076	
Wed-4/10/19	-	-	-	-	-	-	-	-	219,232	152	24.00	45,534	32	24.00	99,249	69	24.00	253	364,015	
Thu-4/11/19	-	-	-	-	-	-	-	-	219,286	152	24.00	45,521	32	24.00	99,398	69	24.00	253	364,205	
Fri-4/12/19	-	-	-	-	-	-	-	-	219,210	152	24.00	45,479	32	24.00	99,293	69	24.00	253	363,982	
Sat-4/13/19	-	-	-	-	-	-	-	-	219,178	152	24.00	45,456	32	24.00	99,254	69	24.00	253	363,888	
Sun-4/14/19	-	-	-	-	-	-	-	-	219,266	152	24.00	45,496	32	24.00	99,316	69	24.00	253	364,078	
Mon-4/15/19	-	-	-	-	-	-	-	-	219,256	152	24.00	45,478	32	24.00	99,230	69	24.00	253	363,964	
Tue-4/16/19	-	-	-	-	-	-	-	-	219,235	152	24.00	45,449	32	24.00	99,314	69	24.00	253	363,998	
Wed-4/17/19	-	-	-	-	-	-	-	-	207,946	152	22.78	41,994	31	22.70	93,827	69	22.70	239	343,767	
Thu-4/18/19	-	-	-	-	-	-	-	-	218,272	152	24.00	44,024	31	24.00	99,198	69	24.00	251	361,494	
Fri-4/19/19	-	-	-	-	-	-	-	-	218,841	152	23.98	43,945	31	24.00	99,450	69	24.00	252	362,236	
Sat-4/20/19	-	-	-	-	-	-	-	-	219,201	152	24.00	43,973	31	24.00	99,422	69	24.00	252	362,596	
Sun-4/21/19	-	-	-	-	-	-	-	-	218,557	152	24.00	43,883	30	24.00	99,317	69	24.00	251	361,757	
Mon-4/22/19	-	-	-	-	-	-	-	-	218,557	152	24.00	43,883	30	24.00	99,317	69	24.00	251	361,757	
Tue-4/23/19	-	-	-	-	-	-	-	-	219,115	152	24.00	43,711	30	24.00	99,375	69	24.00	252	362,201	
Wed-4/24/19	-	-	-	-	-	-	-	-	219,207	152	23.98	44,670	31	24.00	99,218	69	24.00	252	363,095	
Thu-4/25/19	-	-	-	-	-	-	-	-	219,098	152	24.00	45,548	32	24.00	99,330	69	24.00	253	363,976	
Fri-4/26/19	-	-	-	-	-	-	-	-	219,245	152	24.00	45,563	32	24.00	99,311	69	24.00	253	364,119	
Sat-4/27/19	-	-	-	-	-	-	-	-	219,229	152	24.00	45,575	32	24.00	99,200	69	24.00	253	364,004	
Sun-4/28/19	-	-	-	-	-	-	-	-	219,162	152	24.00	45,557	32	24.00	99,232	69	24.00	253	363,951	
Mon-4/29/19	-	-	-	-	-	-	-	-	219,231	152	24.00	45,570	32	24.00	99,231	69	24.00	253	364,032	
Tue-4/30/19	-	-	-	-	-	-	-	-	219,195	152	24.00	45,334	31	24.00	99,350	69	24.00	253	363,879	
TOTALS	-	-	-	-	-	-	-	-	6,562,351	152	718.75	1,337,003	31	717.84	2,970,172	69	717.73	252	10,869,526	

TOTAL VOLUME EXTRACTED :	10,869,526 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	251.61 GPM

04/17/19 - Extraction was shut down briefly for communication upgrade.

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
01/14/19	26
02/05/19	37
03/11/19	30
04/03/19	50

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
02/06/19	65
03/08/19	61
03/15/19	93
04/03/19	91

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-04-03-19-10:45-1	04/03/19	120
TW-20-04-03-19-09:29-1	04/03/19	940
LB-4-04-03-19-10:03-1	04/03/19	450
TW-21-04-03-19-09:56-1	04/03/19	230
TW-18-04-03-19-09:40-1	04/03/19	250
TW-19-04-03-19-10:24-1	04/03/19	470
TW-23-04-03-19-10:09-1	04/03/19	490
PW-1-04-03-19-09:47-1	04/03/19	880
TW-22-04-03-19-09:20-1	04/03/19	490
TW-28-04-03-19-09:18-1	04/03/19	700

RED POND DATA

Month of: **Apr-19**

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Mon-4/1/19	04:00:00		Y	5.9	-	24.00	475
Tue-4/2/19	04:00:00		Y	5.9	-	24.00	484
Wed-4/3/19	04:00:00		Y	5.8	-	24.00	482
Thu-4/4/19	04:00:00		Y	5.9	-	24.00	483
Fri-4/5/19	04:00:00		Y	5.8	-	24.00	483
Sat-4/6/19	04:00:00	(1)		5.7	-	24.00	483
Sun-4/7/19	04:00:00	(1)		5.6	-	23.90	486
Mon-4/8/19	04:00:00		Y	5.5	-	24.00	483
Tue-4/9/19	04:00:00		Y	5.4	-	24.00	481
Wed-4/10/19	04:00:00		Y	5.3	-	24.00	482
Thu-4/11/19	04:00:00		Y	5.2	-	24.00	484
Fri-4/12/19	04:00:00		Y	5.1	-	24.00	484
Sat-4/13/19	04:00:00	(1)		5.1	-	24.00	484
Sun-4/14/19	04:00:00	(1)		5.2	-	24.00	484
Mon-4/15/19	04:00:00		Y	5.2	-	24.00	484
Tue-4/16/19	04:00:00		Y	5.1	-	24.00	484
Wed-4/17/19	04:00:00		Y	5.0	-	24.00	458
Thu-4/18/19	04:00:00		Y	5.1	-	24.00	483
Fri-4/19/19	04:00:00		Y	5.0	-	24.00	483
Sat-4/20/19	04:00:00	(1)		4.9	-	24.00	483
Sun-4/21/19	04:00:00	(1)		4.9	-	24.00	483
Mon-4/22/19	04:00:00		Y	4.8	-	24.00	483
Tue-4/23/19	04:00:00		Y	4.8	-	24.00	481
Wed-4/24/19	04:00:00		Y	4.6	-	24.00	484
Thu-4/25/19	04:00:00		Y	4.4	-	24.00	485
Fri-4/26/19	04:00:00		Y	4.5	-	24.00	485
Sat-4/27/19	04:00:00	(1)		4.4	-	24.00	485
Sun-4/28/19	04:00:00	(1)		4.3	-	24.00	485
Mon-4/29/19	04:00:00		Y	4.2	-	24.00	485
Tue-4/30/19	04:00:00		Y	4.2	-	24.00	485
TOTALS			-	-	-	720	

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-04-01-19-08:16-1	4/1/2019	370
Red Pond-04-08-19-07:11-1	4/8/2019	380
Red Pond-04-15-19-07:14-1	4/15/2019	390
Red Pond-04-22-19-08:20-1	4/22/2019	370
Red Pond-04-29-19-07:20-1	4/29/2019	380

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

OZONE OPERATION REPORT

Month of: **Apr-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
2019-04-01	04:00:00		240	24.00	0	0.00	240	23.15	0	0.00
2019-04-02	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-03	04:00:00		240	22.47	0	0.00	240	24.00	0	0.00
2019-04-04	04:00:00		241	24.00	0	0.00	240	24.00	0	0.00
2019-04-05	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-06	04:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
2019-04-07	04:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
2019-04-08	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-09	04:00:00		239	24.00	0	0.00	240	24.00	0	0.00
2019-04-10	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-11	04:00:00		239	24.02	0	0.00	240	24.00	0	0.00
2019-04-12	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-13	04:00:00	(1)	240	24.00	0	0.00	241	23.37	0	0.00
2019-04-14	04:00:00	(1)	240	23.35	0	0.00	240	24.00	0	0.00
2019-04-15	04:00:00		240	24.00	0	0.00	241	24.00	0	0.00
2019-04-16	04:00:00		239	24.02	0	0.00	240	24.00	0	0.00
2019-04-17	04:00:00		239	22.22	0	0.00	241	22.22	0	0.00
2019-04-18	04:00:00		239	24.00	0	0.00	239	24.00	0	0.00
2019-04-19	04:00:00		239	24.00	0	0.00	240	24.00	0	0.00
2019-04-20	04:00:00	(1)	240	24.02	0	0.00	240	24.00	0	0.00
2019-04-21	04:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
2019-04-22	04:00:00		239	24.00	0	0.00	241	24.00	0	0.00
2019-04-23	04:00:00		239	24.00	0	0.00	241	24.00	0	0.00
2019-04-24	04:00:00		240	24.02	0	0.00	240	24.00	0	0.00
2019-04-25	04:00:00		240	24.02	0	0.00	241	24.00	0	0.00
2019-04-26	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-27	04:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
2019-04-28	04:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
2019-04-29	04:00:00		240	24.00	0	0.00	240	24.00	0	0.00
2019-04-30	04:00:00		240	23.80	0	0.00	240	8.65	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.

04/03/19 - System-1A was shut down briefly for maintenance.

04/17/19 - Treatment was shut down briefly for communications upgrades

04/30/19 - System-2A was shut down for communication upgrades.

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
4/1/2019	0.698			6.5	0.370	<50	<0.16	no	yes	7.0	7.0	7.5	60
4/2/2019	0.716			6.7		<50	<0.16	no	no	6.7	6.7	5.5	
4/3/2019	0.691			6.9		<50	<0.16	yes	yes	6.7	6.7	<5	
4/4/2019	0.716			7		<50	<0.16	no	no	6.7	6.7	6	65
4/5/2019	0.716					<50	<0.16	no	no	6.8	6.8		
4/6/2019	0.716												
4/7/2019	0.716			6.9								6	
4/8/2019	0.717	190	1.117	6.6	0.380	<50	<0.16	no	yes	6.8	6.8	5.9	50
4/9/2019	0.710			7		<50	<0.16	no	no	6.8	6.8	6.2	
4/10/2019	0.716			6.5		<50	<0.16	yes	yes	6.9	6.9	6.2	
4/11/2019	0.716			7.2		<50	<0.16	no	no	6.9	6.9	6.4	50
4/12/2019	0.716					<50	<0.16	no	no	7.0	7.0		
4/13/2019	0.694												
4/14/2019	0.716			7.1								6.4	
4/15/2019	0.716			7.4	0.390	<50	<0.16	no	yes	6.9	6.9	5.8	24
4/16/2019	0.716			6.6		<50	<0.16	no	no	7.0	7.0	5.9	
4/17/2019	0.661			6.2		<50	<0.16	yes	yes	6.7	6.7	5.7	
4/18/2019	0.716			5.6		<50	<0.16	no	no	6.8	6.8	6.8	63
4/19/2019	0.716					<50	<0.16	no	no	6.7	6.7		
4/20/2019	0.715												
4/21/2019	0.716			4.5								9.4	
4/22/2019	0.717			5.2	0.370	<50	<0.16	no	yes	6.8	6.8	9	60
4/23/2019	0.717			4.2		<50	<0.16	no	no	6.8	6.8	8.6	
4/24/2019	0.717			4.7		<50	<0.16	yes	yes	6.9	6.9	9	
4/25/2019	0.717			4.7		<50	<0.16	no	no	6.9	6.9	8	40
4/26/2019	0.717					<50	<0.16	no	no	6.9	6.9		
4/27/2019	0.717												
4/28/2019	0.717			4.9								7.7	
4/29/2019	0.716			4.8	0.380	<50	<0.16	no	yes	7.0	7.0	8.1	45
4/30/2019	0.496			5.6		<50	<0.16	no	no	7.0	7.0	7.4	
Discharged (mg)	21.140												
Monthly Avg				6.0								6.7	