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FEB 20 2018

DEQ . RRD  
JACKSON DISTRICT OFFICE

February 14, 2018

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

**Re: Monitoring Report # 249  
January 1 – January 31, 2018**

Dear Mr. Surfus:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of January 1 through January 31, 2018.

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 horizontal line.

Lawrence J. Gelb  
Sr. Director Global EHS

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

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**UNIT D2 UPGRADIENT EXTRACTION DATA**

**Month of: Jan-18**

Date	TW-21			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
	Mon-1/1/18	79,051	55	24.00	55
Tue-1/2/18	79,028	55	24.00	55	79,028
Wed-1/3/18	84,123	58	24.00	58	84,123
Thu-1/4/18	91,271	63	24.00	63	91,271
Fri-1/5/18	93,423	65	24.00	65	93,423
Sat-1/6/18	93,448	65	24.00	65	93,448
Sun-1/7/18	93,473	65	24.00	65	93,473
Mon-1/8/18	88,742	62	24.00	62	88,742
Tue-1/9/18	86,435	60	24.00	60	86,435
Wed-1/10/18	81,902	57	24.00	57	81,902
Thu-1/11/18	79,263	55	24.00	55	79,263
Fri-1/12/18	79,181	55	24.00	55	79,181
Sat-1/13/18	79,112	55	24.00	55	79,112
Sun-1/14/18	79,069	55	24.00	55	79,069
Mon-1/15/18	79,116	55	24.00	55	79,116
Tue-1/16/18	79,099	55	24.00	55	79,099
Wed-1/17/18	79,081	55	24.00	55	79,081
Thu-1/18/18	75,586	52	24.00	52	75,586
Fri-1/19/18	71,944	50	24.00	50	71,944
Sat-1/20/18	72,024	50	24.00	50	72,024
Sun-1/21/18	71,970	50	24.00	50	71,970
Mon-1/22/18	80,724	56	24.00	56	80,724
Tue-1/23/18	86,337	60	24.00	60	86,337
Wed-1/24/18	86,316	60	24.00	60	86,316
Thu-1/25/18	86,349	60	24.00	60	86,349
Fri-1/26/18	86,369	60	24.00	60	86,369
Sat-1/27/18	86,482	60	24.00	60	86,482
Sun-1/28/18	72,094	60	20.03	50	72,094
Mon-1/29/18	86,317	60	24.00	60	86,317
Tue-1/30/18	86,325	60	24.00	60	86,325
Wed-1/31/18	86,344	60	24.00	60	86,344
<b>TOTALS</b>	<b>2,559,998</b>	<b>58</b>	<b>740.03</b>	<b>57</b>	<b>2,559,998</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>2,559,998 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>57.35 GPM</b>

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.

**UNIT D2 DOWNGRADIENT EXTRACTION DATA**

**Month of: Jan-18**

Date	LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-1/1/18	140,942	100	23.45	98	140,942
Tue-1/2/18	144,237	100	24.00	100	144,237
Wed-1/3/18	144,262	100	24.00	100	144,262
Thu-1/4/18	144,227	100	24.00	100	144,227
Fri-1/5/18	144,208	100	24.00	100	144,208
Sat-1/6/18	144,247	100	24.00	100	144,247
Sun-1/7/18	144,199	100	24.00	100	144,199
Mon-1/8/18	144,168	100	24.00	100	144,168
Tue-1/9/18	144,228	100	24.00	100	144,228
Wed-1/10/18	144,245	100	24.00	100	144,245
Thu-1/11/18	139,430	100	23.21	97	139,430
Fri-1/12/18	144,207	100	24.00	100	144,207
Sat-1/13/18	144,197	100	24.00	100	144,197
Sun-1/14/18	144,268	100	24.00	100	144,268
Mon-1/15/18	144,194	100	24.00	100	144,194
Tue-1/16/18	144,248	100	24.00	100	144,248
Wed-1/17/18	144,258	100	24.00	100	144,258
Thu-1/18/18	144,266	100	24.00	100	144,266
Fri-1/19/18	144,180	100	24.00	100	144,180
Sat-1/20/18	144,168	100	24.00	100	144,168
Sun-1/21/18	144,170	100	24.00	100	144,170
Mon-1/22/18	144,171	100	24.00	100	144,171
Tue-1/23/18	144,187	100	24.00	100	144,187
Wed-1/24/18	144,203	100	24.00	100	144,203
Thu-1/25/18	144,181	100	24.00	100	144,181
Fri-1/26/18	144,214	100	24.00	100	144,214
Sat-1/27/18	144,214	100	24.00	100	144,214
Sun-1/28/18	120,163	100	20.00	83	120,163
Mon-1/29/18	144,225	100	24.00	100	144,225
Tue-1/30/18	140,875	100	23.45	98	140,875
Wed-1/31/18	144,199	100	24.00	100	144,199
<b>TOTALS</b>	<b>4,435,181</b>	<b>100</b>	<b>738.11</b>	<b>99</b>	<b>4,435,181</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>4,435,181 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>99.35 GPM</b>

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.

**CORE AREA EXTRACTION DATA**

Month of: **Jan-18**

Core Area Well Extraction							Daily	Daily
Date	TW-2 (Dolph)			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-1/1/18	21,169	15	24.00	43,268	30	24.00	45	64,437
Tue-1/2/18	21,249	15	24.00	43,446	30	24.00	45	64,695
Wed-1/3/18	21,327	15	24.00	43,529	30	24.00	45	64,856
Thu-1/4/18	21,496	15	24.00	43,459	30	24.00	45	64,955
Fri-1/5/18	21,529	15	24.00	43,429	30	24.00	45	64,958
Sat-1/6/18	21,597	15	24.00	43,396	30	24.00	45	64,993
Sun-1/7/18	21,683	15	24.00	43,735	30	24.00	45	65,418
Mon-1/8/18	21,845	15	24.00	43,689	30	24.00	46	65,534
Tue-1/9/18	21,443	15	24.00	43,673	30	24.00	45	65,116
Wed-1/10/18	21,648	15	24.00	43,583	30	24.00	45	65,231
Thu-1/11/18	21,823	15	24.00	43,441	30	24.00	45	65,264
Fri-1/12/18	21,492	15	24.00	43,209	30	24.00	45	64,701
Sat-1/13/18	21,169	15	24.00	43,094	30	24.00	45	64,263
Sun-1/14/18	21,299	15	24.00	43,192	30	24.00	45	64,491
Mon-1/15/18	21,464	15	24.00	43,058	30	23.98	45	64,522
Tue-1/16/18	21,703	15	24.00	43,212	30	24.00	45	64,915
Wed-1/17/18	21,626	15	24.00	43,253	30	24.00	45	64,879
Thu-1/18/18	18,437	14	22.72	43,254	30	24.00	43	61,691
Fri-1/19/18	14,002	10	22.42	43,337	30	24.00	40	57,339
Sat-1/20/18	14,622	10	24.00	43,410	30	24.00	40	58,032
Sun-1/21/18	14,892	10	24.00	43,691	30	24.00	41	58,583
Mon-1/22/18	14,975	10	24.00	43,485	30	24.00	41	58,460
Tue-1/23/18	19,103	13	24.00	43,095	30	24.00	43	62,198
Wed-1/24/18	21,853	15	24.00	43,124	30	24.00	45	64,977
Thu-1/25/18	21,934	15	24.00	43,195	30	24.00	45	65,129
Fri-1/26/18	22,087	15	24.00	43,301	30	24.00	45	65,388
Sat-1/27/18	22,358	16	24.00	43,075	30	24.00	45	65,433
Sun-1/28/18	18,718	15	20.18	35,927	30	20.02	38	54,645
Mon-1/29/18	22,513	16	24.00	43,255	30	24.00	46	65,768
Tue-1/30/18	24,831	17	24.00	43,148	30	24.00	47	67,979
Wed-1/31/18	29,990	21	24.00	43,154	30	24.00	51	73,144
<b>TOTALS</b>	<b>645,877</b>	<b>15</b>	<b>737.32</b>	<b>1,336,117</b>	<b>30</b>	<b>740.00</b>	<b>44</b>	<b>1,981,994</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>1,981,994 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>44.40 GPM</b>

01/18/18 - 01/19/18 - Dolph was shut down briefly for maintenance.

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.

**MARSHY AREA EXTRACTION DATA**

**Month of: Jan-18**

<b>Marshy Well Extraction</b>				<b>Daily</b>	<b>Daily</b>
<b>Date</b>	<b>PW-1</b>	<b>GPM</b>	<b>Run Hrs.</b>	<b>Flow</b>	<b>Total</b>
	<b>Gallons</b>			<b>GPM</b>	<b>Gallons</b>
Mon-1/1/18	4,216	3	24.00	3	4,216
Tue-1/2/18	4,236	3	24.00	3	4,236
Wed-1/3/18	4,252	3	24.00	3	4,252
Thu-1/4/18	4,252	3	24.00	3	4,252
Fri-1/5/18	4,275	3	24.00	3	4,275
Sat-1/6/18	4,290	3	24.00	3	4,290
Sun-1/7/18	4,294	3	24.00	3	4,294
Mon-1/8/18	4,269	3	24.00	3	4,269
Tue-1/9/18	4,272	3	24.00	3	4,272
Wed-1/10/18	4,275	3	24.00	3	4,275
Thu-1/11/18	4,277	3	24.00	3	4,277
Fri-1/12/18	4,335	3	24.00	3	4,335
Sat-1/13/18	4,392	3	24.00	3	4,392
Sun-1/14/18	4,388	3	24.00	3	4,388
Mon-1/15/18	4,351	3	24.00	3	4,351
Tue-1/16/18	4,340	3	24.00	3	4,340
Wed-1/17/18	4,347	3	24.00	3	4,347
Thu-1/18/18	4,345	3	24.00	3	4,345
Fri-1/19/18	4,325	3	24.00	3	4,325
Sat-1/20/18	4,299	3	24.00	3	4,299
Sun-1/21/18	4,272	3	24.00	3	4,272
Mon-1/22/18	4,267	3	24.00	3	4,267
Tue-1/23/18	4,260	3	24.00	3	4,260
Wed-1/24/18	4,268	3	24.00	3	4,268
Thu-1/25/18	4,249	3	24.00	3	4,249
Fri-1/26/18	4,226	3	24.00	3	4,226
Sat-1/27/18	4,163	3	24.00	3	4,163
Sun-1/28/18	3,461	3	20.28	2	3,461
Mon-1/29/18	4,070	3	24.00	3	4,070
Tue-1/30/18	3,993	3	24.00	3	3,993
Wed-1/31/18	3,933	3	24.00	3	3,933
<b>TOTALS</b>	<b>131,192</b>	<b>3</b>	<b>740.28</b>	<b>3</b>	<b>131,192</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>131,192 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>2.94 GPM</b>

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.

**SOUTHWEST AREA EXTRACTION DATA**

**Month of: Jan-18**

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-1/1/18	29,815	21	24.00	21	29,815
Tue-1/2/18	29,839	21	24.00	21	29,839
Wed-1/3/18	29,846	21	24.00	21	29,846
Thu-1/4/18	29,750	21	24.00	21	29,750
Fri-1/5/18	30,625	21	24.00	21	30,625
Sat-1/6/18	30,584	21	24.00	21	30,584
Sun-1/7/18	30,594	21	24.00	21	30,594
Mon-1/8/18	30,581	21	24.00	21	30,581
Tue-1/9/18	30,539	21	24.00	21	30,539
Wed-1/10/18	30,523	21	24.00	21	30,523
Thu-1/11/18	30,492	21	24.00	21	30,492
Fri-1/12/18	30,441	21	24.00	21	30,441
Sat-1/13/18	30,400	21	24.00	21	30,400
Sun-1/14/18	30,410	21	24.00	21	30,410
Mon-1/15/18	30,409	21	24.00	21	30,409
Tue-1/16/18	30,353	21	24.00	21	30,353
Wed-1/17/18	30,339	21	24.00	21	30,339
Thu-1/18/18	30,331	21	24.00	21	30,331
Fri-1/19/18	30,411	21	24.00	21	30,411
Sat-1/20/18	30,435	21	24.00	21	30,435
Sun-1/21/18	30,419	21	24.00	21	30,419
Mon-1/22/18	30,438	21	24.00	21	30,438
Tue-1/23/18	30,378	21	24.00	21	30,378
Wed-1/24/18	30,094	21	24.00	21	30,094
Thu-1/25/18	29,937	21	24.00	21	29,937
Fri-1/26/18	29,849	21	24.00	21	29,849
Sat-1/27/18	29,644	21	24.00	21	29,644
Sun-1/28/18	29,285	24	20.30	20	29,285
Mon-1/29/18	29,127	20	24.00	20	29,127
Tue-1/30/18	28,872	20	24.00	20	28,872
Wed-1/31/18	28,853	20	24.00	20	28,853
<b>TOTALS</b>	<b>933,613</b>	<b>21</b>	<b>740.30</b>	<b>21</b>	<b>933,613</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>933,613 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>20.91 GPM</b>

Note: ACTIVE WELLS = TW-8, TW-22

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.

**UNIT "E" EXTRACTION DATA**

**Month of: Jan-18**

Date	TW-18			TW-19			TW-23			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-1/1/18	219,765	153	24.00	44,381	31	23.70	98,246	69	23.70	252	362,392
Tue-1/2/18	222,013	154	24.00	44,486	31	24.00	99,486	69	24.00	254	365,985
Wed-1/3/18	231,798	161	24.00	44,509	31	24.00	99,523	69	24.00	261	375,830
Thu-1/4/18	234,369	163	24.00	44,487	31	24.00	99,407	69	24.00	263	378,263
Fri-1/5/18	234,401	163	24.00	44,495	31	24.00	99,601	69	24.00	263	378,497
Sat-1/6/18	234,407	163	24.00	44,508	31	24.00	99,573	69	24.00	263	378,488
Sun-1/7/18	234,368	163	24.00	44,523	31	24.00	99,606	69	24.00	263	378,497
Mon-1/8/18	234,306	163	24.00	44,504	31	24.00	99,597	69	24.00	263	378,407
Tue-1/9/18	234,311	163	24.00	44,458	31	24.00	99,445	69	24.00	263	378,214
Wed-1/10/18	234,284	163	24.00	44,435	31	24.00	99,426	69	24.00	263	378,145
Thu-1/11/18	234,296	163	24.00	44,140	31	23.60	97,767	69	23.60	261	376,203
Fri-1/12/18	234,326	163	24.00	45,261	31	24.00	99,354	69	24.00	263	378,941
Sat-1/13/18	234,371	163	24.00	45,228	31	24.00	99,423	69	24.00	263	379,022
Sun-1/14/18	234,364	163	24.00	45,251	31	24.00	99,369	69	24.00	263	378,984
Mon-1/15/18	234,290	163	23.98	45,268	31	24.00	99,452	69	24.00	263	379,010
Tue-1/16/18	234,408	163	24.00	45,272	31	24.00	99,437	69	24.00	263	379,117
Wed-1/17/18	234,347	163	24.00	45,293	31	24.00	99,554	69	24.00	263	379,194
Thu-1/18/18	227,901	158	24.00	45,294	31	24.00	99,593	69	24.00	259	372,788
Fri-1/19/18	219,766	153	24.00	45,238	31	24.00	99,476	69	24.00	253	364,480
Sat-1/20/18	219,785	153	24.00	45,221	31	24.00	99,436	69	24.00	253	364,442
Sun-1/21/18	219,765	153	24.00	45,210	31	24.00	99,364	69	24.00	253	364,339
Mon-1/22/18	224,532	156	24.00	45,234	31	24.00	99,383	69	24.00	256	369,149
Tue-1/23/18	229,984	160	24.00	45,157	31	24.00	99,338	69	24.00	260	374,479
Wed-1/24/18	234,298	163	24.00	45,132	31	24.00	99,400	69	24.00	263	378,830
Thu-1/25/18	234,314	163	24.00	45,139	31	24.00	99,360	69	24.00	263	378,813
Fri-1/26/18	234,296	163	24.00	45,133	31	24.00	99,364	69	24.00	263	378,793
Sat-1/27/18	234,293	163	24.00	45,067	31	24.00	99,347	69	24.00	263	378,707
Sun-1/28/18	195,288	163	20.00	36,695	31	19.70	81,458	69	19.70	218	313,441
Mon-1/29/18	234,136	163	24.00	44,312	31	24.00	99,391	69	24.00	262	377,839
Tue-1/30/18	234,131	163	24.00	43,475	31	23.40	96,617	69	23.40	260	374,223
Wed-1/31/18	234,100	163	24.00	45,084	31	24.00	99,426	69	24.00	263	378,610
<b>TOTALS</b>	<b>7,131,013</b>	<b>161</b>	<b>739.98</b>	<b>1,381,890</b>	<b>31</b>	<b>738.40</b>	<b>3,059,219</b>	<b>69</b>	<b>738.40</b>	<b>259</b>	<b>11,572,122</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>11,572,122 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>259.23 GPM</b>

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.



**TABLE #7**

**Little Lake Area System**

MW-53i	
Date	1,4-Dioxane ug/L
10/03/17	43
11/13/17	37
12/20/17	40
01/08/18	35

A2 Cleaning Supply	
Date	1,4-Dioxane ug/L
10/03/17	84
11/13/17	75
12/21/17	84
01/09/18	87

**TABLE #8**

**INDIVIDUAL PURGE WELL CONCENTRATIONS**

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
DOLPH-01-08-18-11:40-1	01/08/18	100
TW-20-01-08-18-11:57-1	01/08/18	890
LB-4-01-08-18-11:24-1	01/08/18	470
TW-21-01-08-18-11:32-1	01/08/18	200
TW-18-01-08-18-11:44-1	01/08/18	270
TW-19-01-09-18-10:10-1	01/09/18	740
TW-23-01-09-18-10:12-1	01/09/18	470
PW-1-01-08-18-11:47-1	01/08/18	850
TW-22-01-09-18-10:55-1	01/09/18	430
TW-8-01-09-18-10:54-1	01/09/18	720

**RED POND DATA**

**Month of: Jan-18**

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Mon-1/1/18	3:05	(1)		5.2	-	24.00	473
Tue-1/2/18	3:00		Y	5.0	-	24.00	478
Wed-1/3/18	3:00		Y	4.8	-	24.00	488
Thu-1/4/18	3:00		Y	4.8	-	24.00	495
Fri-1/5/18	3:00		Y	4.9	-	24.00	497
Sat-1/6/18	3:00	(1)		5.0	-	24.00	497
Sun-1/7/18	3:00	(1)		5.0	-	24.00	498
Mon-1/8/18	3:00		Y	5.1	-	24.00	494
Tue-1/9/18	3:00		Y	5.2	-	24.00	492
Wed-1/10/18	3:00		Y	5.2	-	24.00	489
Thu-1/11/18	3:00		Y	5.2	-	24.00	483
Fri-1/12/18	3:00		Y	5.1	-	24.00	487
Sat-1/13/18	3:00	(1)		5.1	-	24.00	487
Sun-1/14/18	3:00	(1)		5.0	-	24.00	487
Mon-1/15/18	3:00		Y	5.0	-	24.00	487
Tue-1/16/18	3:00		Y	5.0	-	24.00	488
Wed-1/17/18	3:00		Y	4.9	-	24.00	488
Thu-1/18/18	3:00		Y	4.9	-	24.00	478
Fri-1/19/18	3:00		Y	6.0	-	24.00	467
Sat-1/20/18	3:00	(1)		5.7	-	24.00	468
Sun-1/21/18	3:00	(1)		5.3	-	24.00	468
Mon-1/22/18	3:00		Y	5.0	-	24.00	477
Tue-1/23/18	3:00		Y	4.9	-	24.00	487
Wed-1/24/18	3:00		Y	4.9	-	24.00	492
Thu-1/25/18	14:42		Y	4.9	-	24.00	492
Fri-1/26/18	3:00		Y	4.9	-	24.00	492
Sat-1/27/18	3:00	(1)		4.9	-	24.00	492
Sun-1/28/18	3:00	(1)		4.9	-	24.00	412
Mon-1/29/18	3:00		Y	5.1	-	24.00	491
Tue-1/30/18	3:00		Y	5.1	-	24.00	488
Wed-1/31/18	3:00		Y	5.1	-	24.00	497
<b>TOTALS</b>			-	-	-	744	

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

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
Red Pond-01-02-18-06:40-1	1/2/2018	410
Red Pond-01-08-18-10:42-1	1/8/2018	400
Red Pond-01-15-18-08:25-1	1/15/2018	420
Red Pond-01-22-18-08:35-1	1/22/2018	400
Red Pond-01-29-18-06:10-1	1/29/2018	360

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

**OZONE OPERATION REPORT**

**Month of: Jan-18**

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
Mon-1/1/18	3:07 AM	(1)	240	23.85	0	0.00	240	23.87	0	0.00
Tue-1/2/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-1/3/18	3:00 AM		240	23.93	0	0.00	241	24.00	0	0.00
Thu-1/4/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Fri-1/5/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-1/6/18	3:00 AM	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Sun-1/7/18	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-1/8/18	3:00 AM		239	24.00	0	0.00	241	24.00	0	0.00
Tue-1/9/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-1/10/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-1/11/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-1/12/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Sat-1/13/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-1/14/18	3:00 AM	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-1/15/18	3:00 AM		240	23.87	0	0.00	239	23.88	0	0.00
Tue-1/16/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-1/17/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Thu-1/18/18	3:00 AM		239	19.40	0	0.00	241	19.38	0	0.00
Fri-1/19/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Sat-1/20/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-1/21/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-1/22/18	3:00 AM		239	24.00	0	0.00	240	24.00	0	0.00
Tue-1/23/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-1/24/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Thu-1/25/18	2:42 PM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-1/26/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-1/27/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-1/28/18	3:00 AM	(1)	239	19.68	0	0.00	240	19.67	0	0.00
Mon-1/29/18	3:00 AM		239	24.00	0	0.00	240	24.00	0	0.00
Tue-1/30/18	3:00 AM		239	24.00	0	0.00	240	24.00	0	0.00
Wed-1/31/18	3:00 AM		240	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.

01/18/18 - Treatment was shut down briefly for maintenance.

01/28/18 - Extraction and Treatment were shut down briefly due to a DTE Energy power loss in the area.

**TABLE #12**

**GREEN POND / DISCHARGE DATA**

Month of: **Jan-18**

Date	Time	Notes	Green Pond																	
			Pond			Influent			Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours		
Mon-1/1/18	3:05 AM	(1)		-	-							495	707,426	23.80	-	-	-	-	-	-
Tue-1/2/18	3:00 AM		Y	-	-							496	713,744	24.00	-	-	-	-	-	-
Wed-1/3/18	3:00 AM		Y	-	-							494	711,508	24.00	-	-	-	-	-	-
Thu-1/4/18	3:00 AM		Y	-	-							496	713,802	24.00	-	-	-	-	-	-
Fri-1/5/18	3:00 AM		Y	-	-							496	713,612	24.00	-	-	-	-	-	-
Sat-1/6/18	3:00 AM	(1)		-	-							496	713,737	24.00	-	-	-	-	-	-
Sun-1/7/18	3:00 AM	(1)		-	-							496	713,872	24.00	-	-	-	-	-	-
Mon-1/8/18	3:00 AM		Y	-	-							496	714,071	24.00	-	-	-	-	-	-
Tue-1/9/18	3:00 AM		Y	-	-							496	713,957	24.00	-	-	-	-	-	-
Wed-1/10/18	3:00 AM		Y	-	-							496	714,150	24.00	-	-	-	-	-	-
Thu-1/11/18	3:00 AM		Y	-	-							496	714,564	24.00	-	-	-	-	-	-
Fri-1/12/18	3:00 AM		Y	-	-							496	714,223	24.00	-	-	-	-	-	-
Sat-1/13/18	3:00 AM	(1)		-	-							496	713,570	24.00	-	-	-	-	-	-
Sun-1/14/18	3:00 AM	(1)		-	-							496	713,776	24.00	-	-	-	-	-	-
Mon-1/15/18	3:00 AM		Y	-	-							492	708,325	24.00	-	-	-	-	-	-
Tue-1/16/18	3:00 AM		Y	-	-							496	714,203	24.00	-	-	-	-	-	-
Wed-1/17/18	3:00 AM		Y	-	-							496	714,222	24.00	-	-	-	-	-	-
Thu-1/18/18	3:00 AM		Y	-	-							495	573,890	19.33	-	-	-	-	-	-
Fri-1/19/18	3:00 AM		Y	-	-							495	713,245	24.00	-	-	-	-	-	-
Sat-1/20/18	3:00 AM	(1)		-	-							495	713,454	24.00	-	-	-	-	-	-
Sun-1/21/18	3:00 AM	(1)		-	-							496	713,622	24.00	-	-	-	-	-	-
Mon-1/22/18	3:00 AM		Y	-	-							496	714,015	24.00	-	-	-	-	-	-
Tue-1/23/18	3:00 AM		Y	-	-							496	713,859	24.00	-	-	-	-	-	-
Wed-1/24/18	3:00 AM		Y	-	-							496	713,606	24.00	-	-	-	-	-	-
Thu-1/25/18	2:42 PM		Y	-	-							496	713,695	24.00	-	-	-	-	-	-
Fri-1/26/18	3:00 AM		Y	-	-							496	713,728	24.00	-	-	-	-	-	-
Sat-1/27/18	3:00 AM	(1)		-	-							496	713,719	24.00	-	-	-	-	-	-
Sun-1/28/18	3:00 AM	(1)		-	-							495	582,821	19.63	-	-	-	-	-	-
Mon-1/29/18	3:00 AM		Y	-	-							496	713,763	24.00	-	-	-	-	-	-
Tue-1/30/18	3:00 AM		Y	-	-							496	713,588	24.00	-	-	-	-	-	-
Wed-1/31/18	3:00 AM		Y	-	-							496	713,602	24.00	-	-	-	-	-	-
<b>TOTALS</b>				-	-								<b>21,843,369</b>	<b>735</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)	(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 (measured as TRO)	Outfall Observation	Equipment Inspection	pH (Min. Daily)	pH (Max. Daily)	Bromate	Sodium Bisulfite Dose Rate
PARAMETER CODE	50050	1007	1007	82388	82388	00139	84130	46478	00400	00400	99814	99798
MONITORING PT.	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
UNIT	MGD	ug/l	lbs/day	ug/l	mg/l	ug/l	yes/no	yes/no	S.U.	S.U.	ug/l	mg/l
1/1/2018	0.707			5.8							7.5	
1/2/2018	0.714			6.1	0.410	<100	yes	yes	6.6	6.6	7.9	35
1/3/2018	0.712			6.0		<100	no	no	6.6	6.6	8.1	
1/4/2018	0.714			6.3		<100	no	yes	6.6	6.6	8.5	30
1/5/2018	0.714					<100	no	no	6.7	6.7		
1/6/2018	0.714											
1/7/2018	0.714			5.6							8.4	
1/8/2018	0.714			5.4	0.400	<100	yes	yes	6.6	6.6	8.1	55
1/9/2018	0.714			5.8		<100	no	no	6.6	6.6	8.0	
1/10/2018	0.714			5.6		<100	no	no	6.6	6.6	8.3	
1/11/2018	0.715			5.7		<100	no	yes	6.6	6.6	8.0	45
1/12/2018	0.714					<100	no	no	6.6	6.6		
1/13/2018	0.714											
1/14/2018	0.714			6.2							7.9	
1/15/2018	0.708			6.4	0.420	<100	yes	yes	6.6	6.6	8.0	50
1/16/2018	0.714			5.8		<100	no	no	6.8	6.8	8.0	
1/17/2018	0.714			5.6		<100	no	no	6.6	6.6	8.2	
1/18/2018	0.574			6.4		<100	no	yes	6.6	6.6	7.9	50
1/19/2018	0.713					<100	no	no	6.7	6.7		
1/20/2018	0.713											
1/21/2018	0.714			5.7							8.0	
1/22/2018	0.714			5.8	0.400	<100	yes	yes	6.5	6.5	7.7	40
1/23/2018	0.714			5.9		<100	no	no	6.6	6.6	7.6	
1/24/2018	0.714			6.2		<100	no	no	6.7	6.7	7.5	
1/25/2018	0.714			6.3		<100	no	yes	6.8	6.8	6.1	44
1/26/2018	0.714	230	1.37			<100	no	no	6.9	6.9		
1/27/2018	0.714											
1/28/2018	0.583			6.2							8.4	
1/29/2018	0.714			6.0	0.360	<100	yes	yes	6.8	6.8	6.0	50
1/30/2018	0.714			6.1		<100	no	no	6.8	6.8	6.9	
1/31/2018	0.714			5.8		<100	no	no	6.8	6.8	6.5	50
<b>Discharged</b>	<b>21.843</b>											
<b>Monthly Avg</b>				<b>5.9</b>							<b>7.7</b>	