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JACKSON DISTRICT OFFICE

August 4, 2017

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

**Re: Monitoring Report # 243
July 1 – July 31, 2017**

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 July 1 through July 31, 2017.

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 "Lawrence J. Gelb", with a long horizontal line extending to the right.

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: **Jul-17**

Date	TW-21			Daily	Daily
	TW-21			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-7/1/17	86,613	60	24.00	60	86,613
Sun-7/2/17	86,621	60	24.00	60	86,621
Mon-7/3/17	86,603	60	24.00	60	86,603
Tue-7/4/17	86,590	60	24.00	60	86,590
Wed-7/5/17	86,620	60	24.00	60	86,620
Thu-7/6/17	86,641	60	24.00	60	86,641
Fri-7/7/17	70,513	52	22.67	49	70,513
Sat-7/8/17	72,175	50	24.00	50	72,175
Sun-7/9/17	72,160	50	24.00	50	72,160
Mon-7/10/17	72,093	50	24.00	50	72,093
Tue-7/11/17	72,149	50	24.00	50	72,149
Wed-7/12/17	72,097	50	24.00	50	72,097
Thu-7/13/17	83,272	58	24.00	58	83,272
Fri-7/14/17	90,173	63	24.00	63	90,173
Sat-7/15/17	86,572	60	24.00	60	86,572
Sun-7/16/17	86,555	60	24.00	60	86,555
Mon-7/17/17	86,583	60	24.00	60	86,583
Tue-7/18/17	86,664	60	24.00	60	86,664
Wed-7/19/17	86,604	60	24.00	60	86,604
Thu-7/20/17	86,637	60	24.00	60	86,637
Fri-7/21/17	86,644	60	24.00	60	86,644
Sat-7/22/17	86,586	60	24.00	60	86,586
Sun-7/23/17	86,625	60	24.00	60	86,625
Mon-7/24/17	85,798	60	24.00	60	85,798
Tue-7/25/17	75,217	52	23.98	52	75,217
Wed-7/26/17	68,581	58	19.58	48	68,581
Thu-7/27/17	81,642	57	24.00	57	81,642
Fri-7/28/17	79,352	55	24.00	55	79,352
Sat-7/29/17	79,429	55	24.00	55	79,429
Sun-7/30/17	79,378	55	24.00	55	79,378
Mon-7/31/17	82,438	57	24.00	57	82,438
TOTALS	2,535,625	57	738.23	57	2,535,625

TOTAL VOLUME EXTRACTED :	2,535,625 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	56.80 GPM

07/07/17 - TW-21 was shut down briefly due to DTE Energy power outages in the area caused by storms.
 07/26/17 - TW-21 was shut down briefly for maintenance.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Jul-17

Date	LB-1			LB-4			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-7/1/17	-	-	-	144,219	100	24.00	100	144,219
Sun-7/2/17	-	-	-	144,151	100	24.00	100	144,151
Mon-7/3/17	-	-	-	144,214	100	24.00	100	144,214
Tue-7/4/17	-	-	-	144,212	100	24.00	100	144,212
Wed-7/5/17	-	-	-	144,207	100	24.00	100	144,207
Thu-7/6/17	-	-	-	144,152	100	24.00	100	144,152
Fri-7/7/17	-	-	-	142,622	99	23.90	99	142,622
Sat-7/8/17	-	-	-	144,136	100	24.00	100	144,136
Sun-7/9/17	-	-	-	144,166	100	24.00	100	144,166
Mon-7/10/17	-	-	-	144,182	100	24.00	100	144,182
Tue-7/11/17	-	-	-	144,202	100	24.00	100	144,202
Wed-7/12/17	-	-	-	144,160	100	24.00	100	144,160
Thu-7/13/17	-	-	-	144,171	100	24.00	100	144,171
Fri-7/14/17	-	-	-	144,193	100	24.00	100	144,193
Sat-7/15/17	-	-	-	144,191	100	24.00	100	144,191
Sun-7/16/17	-	-	-	144,174	100	24.00	100	144,174
Mon-7/17/17	-	-	-	144,155	100	24.00	100	144,155
Tue-7/18/17	-	-	-	144,197	100	24.00	100	144,197
Wed-7/19/17	-	-	-	144,182	100	24.00	100	144,182
Thu-7/20/17	-	-	-	144,186	100	24.00	100	144,186
Fri-7/21/17	-	-	-	144,187	100	24.00	100	144,187
Sat-7/22/17	-	-	-	144,151	100	24.00	100	144,151
Sun-7/23/17	-	-	-	144,178	100	24.00	100	144,178
Mon-7/24/17	-	-	-	109,124	98	18.60	76	109,124
Tue-7/25/17	25,941	50	8.70	156,475	115	22.75	127	182,416
Wed-7/26/17	70,232	50	23.40	210,561	149	23.50	195	280,793
Thu-7/27/17	72,126	50	24.00	216,225	150	24.00	200	288,351
Fri-7/28/17	71,362	50	23.75	213,862	150	23.75	198	285,224
Sat-7/29/17	72,128	50	24.00	216,230	150	24.00	200	288,358
Sun-7/30/17	72,125	50	24.00	216,231	150	24.00	200	288,356
Mon-7/31/17	72,119	50	24.00	216,223	150	24.00	200	288,342
TOTALS	456,033	50	151.85	4,869,519	110	736.50	119	5,325,552

TOTAL VOLUME EXTRACTED :	5,325,552 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	119.30 GPM

07/24/17 - 07/25/17 - LB-4 was shut down for maintenance.
 07/25/17 - 07/31/17 - LB-1 was running to maintain the Pond level.

CORE AREA EXTRACTION DATA

Month of: Jul-17

Core Area Well Extraction													Daily	Daily
Date	TW-2 (Dolph)			TW-10			TW-14			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-7/1/17	26,111	18	24.00	-	-	-	-	-	-	42,912	30	24.00	48	69,023
Sun-7/2/17	26,054	18	24.00	-	-	-	-	-	-	42,964	30	24.00	48	69,018
Mon-7/3/17	26,052	18	24.00	-	-	-	-	-	-	42,984	30	24.00	48	69,036
Tue-7/4/17	26,471	18	24.00	-	-	-	-	-	-	43,244	30	24.00	48	69,715
Wed-7/5/17	26,551	18	24.00	-	-	-	-	-	-	43,244	30	24.00	48	69,795
Thu-7/6/17	26,607	18	24.00	-	-	-	-	-	-	43,191	30	24.00	48	69,798
Fri-7/7/17	26,298	18	23.72	-	-	-	-	-	-	40,791	30	22.60	47	67,089
Sat-7/8/17	26,593	18	24.00	-	-	-	-	-	-	43,174	30	24.00	48	69,767
Sun-7/9/17	26,686	19	24.00	-	-	-	-	-	-	42,997	30	24.00	48	69,683
Mon-7/10/17	26,729	19	24.00	-	-	-	-	-	-	43,152	30	24.00	49	69,881
Tue-7/11/17	26,742	19	24.00	-	-	-	-	-	-	43,188	30	24.00	49	69,930
Wed-7/12/17	26,712	19	24.00	-	-	-	-	-	-	43,272	30	24.00	49	69,984
Thu-7/13/17	26,668	19	24.00	-	-	-	-	-	-	43,033	30	23.97	48	69,701
Fri-7/14/17	26,724	19	24.00	-	-	-	-	-	-	42,873	30	24.00	48	69,597
Sat-7/15/17	26,782	19	24.00	-	-	-	-	-	-	43,118	30	24.00	49	69,900
Sun-7/16/17	26,832	19	24.00	-	-	-	-	-	-	43,129	30	24.00	49	69,961
Mon-7/17/17	26,847	19	24.00	-	-	-	-	-	-	43,228	30	24.00	49	70,075
Tue-7/18/17	26,846	19	24.00	-	-	-	-	-	-	43,160	30	24.00	49	70,006
Wed-7/19/17	26,807	19	24.00	-	-	-	-	-	-	43,195	30	24.00	49	70,002
Thu-7/20/17	26,798	19	24.00	-	-	-	-	-	-	43,186	30	24.00	49	69,984
Fri-7/21/17	26,795	19	24.00	-	-	-	-	-	-	43,314	30	24.00	49	70,109
Sat-7/22/17	26,796	19	24.00	-	-	-	-	-	-	43,256	30	24.00	49	70,052
Sun-7/23/17	26,803	19	24.00	-	-	-	-	-	-	43,185	30	24.00	49	69,988
Mon-7/24/17	26,793	19	24.00	23,937	75	5.32	1,209	403	0.05	43,283	30	24.00	66	95,222
Tue-7/25/17	26,854	19	24.00	-	-	-	-	-	-	43,339	30	24.00	49	70,193
Wed-7/26/17	23,503	19	21.00	-	-	-	-	-	-	31,215	30	17.33	38	54,718
Thu-7/27/17	26,868	19	24.00	-	-	-	-	-	-	43,124	30	24.00	49	69,992
Fri-7/28/17	26,900	19	24.00	-	-	-	-	-	-	43,038	30	24.00	49	69,938
Sat-7/29/17	26,944	19	24.00	-	-	-	-	-	-	43,040	30	24.00	49	69,984
Sun-7/30/17	26,952	19	24.00	-	-	-	-	-	-	43,192	30	24.00	49	70,144
Mon-7/31/17	26,980	19	24.00	-	-	-	-	-	-	43,070	30	24.00	49	70,050
TOTALS	824,098	19	740.72	23,937	75	5.32	1,209	403	0.05	1,323,091	30	735.90	49	2,172,335

TOTAL VOLUME EXTRACTED :	2,172,335 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	48.66 GPM

07/07/17 - TW-20 was shut down briefly due to DTE Energy power outages in the area caused by storms.
 07/24/17 - TW-10 & TW-14 were turned on briefly to maintain the Pond level.
 07/26/17 - Dolph and TW-20 were shut down briefly for maintenance.

MARSHY AREA EXTRACTION DATA

Month of: Jul-17

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1 Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-7/1/17	2,556	2	24.00	2	2,556
Sun-7/2/17	2,591	2	24.00	2	2,591
Mon-7/3/17	2,611	2	24.00	2	2,611
Tue-7/4/17	2,613	2	24.00	2	2,613
Wed-7/5/17	1,483	2	13.92	1	1,483
Thu-7/6/17	-	-	-	-	-
Fri-7/7/17	-	-	-	-	-
Sat-7/8/17	-	-	-	-	-
Sun-7/9/17	-	-	-	-	-
Mon-7/10/17	-	-	-	-	-
Tue-7/11/17	-	-	-	-	-
Wed-7/12/17	-	-	-	-	-
Thu-7/13/17	-	-	-	-	-
Fri-7/14/17	-	-	-	-	-
Sat-7/15/17	-	-	-	-	-
Sun-7/16/17	-	-	-	-	-
Mon-7/17/17	-	-	-	-	-
Tue-7/18/17	-	-	-	-	-
Wed-7/19/17	-	-	-	-	-
Thu-7/20/17	-	-	-	-	-
Fri-7/21/17	-	-	-	-	-
Sat-7/22/17	-	-	-	-	-
Sun-7/23/17	-	-	-	-	-
Mon-7/24/17	-	-	-	-	-
Tue-7/25/17	-	-	-	-	-
Wed-7/26/17	-	-	-	-	-
Thu-7/27/17	-	-	-	-	-
Fri-7/28/17	-	-	-	-	-
Sat-7/29/17	-	-	-	-	-
Sun-7/30/17	-	-	-	-	-
Mon-7/31/17	-	-	-	-	-
TOTALS	11,854	2	109.92	2	11,854

TOTAL VOLUME EXTRACTED :	11,854 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	0.27 GPM

07/05/17 - 07/31/17 - PW-1 was shut down due to low flow.

SOUTHWEST AREA EXTRACTION DATA

Month of: Jul-17

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-7/1/17	29,467	20	24.00	20	29,467
Sun-7/2/17	29,490	20	24.00	20	29,490
Mon-7/3/17	29,485	20	24.00	20	29,485
Tue-7/4/17	29,472	20	24.00	20	29,472
Wed-7/5/17	29,457	20	24.00	20	29,457
Thu-7/6/17	29,475	20	24.00	20	29,475
Fri-7/7/17	28,202	20	23.90	20	28,202
Sat-7/8/17	30,145	21	24.00	21	30,145
Sun-7/9/17	30,125	21	24.00	21	30,125
Mon-7/10/17	30,134	21	24.00	21	30,134
Tue-7/11/17	30,104	21	24.00	21	30,104
Wed-7/12/17	30,018	21	24.00	21	30,018
Thu-7/13/17	29,958	21	24.00	21	29,958
Fri-7/14/17	29,979	21	24.00	21	29,979
Sat-7/15/17	31,397	22	24.00	22	31,397
Sun-7/16/17	31,349	22	24.00	22	31,349
Mon-7/17/17	31,344	22	24.00	22	31,344
Tue-7/18/17	31,356	22	24.00	22	31,356
Wed-7/19/17	31,334	22	24.00	22	31,334
Thu-7/20/17	31,324	22	24.00	22	31,324
Fri-7/21/17	31,300	22	24.00	22	31,300
Sat-7/22/17	31,308	22	24.00	22	31,308
Sun-7/23/17	31,306	22	24.00	22	31,306
Mon-7/24/17	31,218	22	24.00	22	31,218
Tue-7/25/17	31,312	22	24.00	22	31,312
Wed-7/26/17	25,714	21	20.20	18	25,714
Thu-7/27/17	31,469	22	24.00	22	31,469
Fri-7/28/17	31,467	22	24.00	22	31,467
Sat-7/29/17	31,426	22	23.67	22	31,426
Sun-7/30/17	31,397	22	24.00	22	31,397
Mon-7/31/17	31,391	22	24.00	22	31,391
TOTALS	942,923	21	739.77	21	942,923

TOTAL VOLUME EXTRACTED :	942,923 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	21.12 GPM

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

UNIT "E" EXTRACTION DATA

Month of: Jul-17

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
Sat-7/1/17	233,940	162	24.00	44,847	31	23.80	100,162	70	23.90	263	378,949
Sun-7/2/17	233,956	162	24.00	44,832	31	23.90	100,255	70	23.90	263	379,043
Mon-7/3/17	233,950	162	24.00	44,425	31	23.80	100,101	70	23.80	263	378,476
Tue-7/4/17	233,977	162	24.00	44,381	31	23.90	100,469	70	24.00	263	378,827
Wed-7/5/17	233,950	162	24.00	44,618	31	23.90	100,345	70	24.00	263	378,913
Thu-7/6/17	233,983	162	24.00	43,870	31	23.50	99,058	70	23.70	262	376,911
Fri-7/7/17	209,555	154	22.62	42,742	31	23.00	96,907	70	23.10	243	349,204
Sat-7/8/17	219,385	152	24.00	44,441	31	23.80	99,974	70	23.80	253	363,800
Sun-7/9/17	219,418	152	24.00	43,946	31	23.80	99,481	70	23.80	252	362,845
Mon-7/10/17	219,381	152	24.00	44,213	31	23.70	99,538	70	23.80	252	363,132
Tue-7/11/17	219,451	152	24.00	44,839	31	24.00	100,626	70	24.00	253	364,916
Wed-7/12/17	219,444	152	24.00	44,539	31	23.90	100,510	70	23.90	253	364,493
Thu-7/13/17	229,436	159	23.98	44,333	31	23.90	100,455	70	24.00	260	374,224
Fri-7/14/17	237,639	165	24.00	44,657	31	23.90	100,383	70	23.90	266	382,679
Sat-7/15/17	234,032	163	24.00	44,800	31	24.00	100,560	70	24.00	263	379,392
Sun-7/16/17	234,023	163	24.00	44,184	31	23.80	99,890	70	23.80	263	378,097
Mon-7/17/17	234,040	163	24.00	44,595	31	23.90	100,335	70	23.90	263	378,970
Tue-7/18/17	234,078	163	24.00	44,717	31	23.80	99,875	70	23.90	263	378,670
Wed-7/19/17	234,087	163	24.00	43,891	31	23.80	99,990	70	23.80	262	377,968
Thu-7/20/17	234,092	163	24.00	44,214	31	24.00	100,570	70	24.00	263	378,876
Fri-7/21/17	234,066	163	24.00	44,195	31	24.00	100,590	70	24.00	263	378,851
Sat-7/22/17	233,980	162	24.00	44,302	31	23.90	100,342	70	23.90	263	378,624
Sun-7/23/17	233,926	162	24.00	43,274	31	23.40	98,013	70	23.40	261	375,213
Mon-7/24/17	229,282	159	24.00	35,081	31	18.80	78,680	70	18.80	238	343,043
Tue-7/25/17	224,366	156	24.00	16,189	30	9.00	37,706	68	9.20	193	278,261
Wed-7/26/17	169,850	163	17.32	-	-	-	-	-	-	118	169,850
Thu-7/27/17	234,066	163	24.00	-	-	-	-	-	-	163	234,066
Fri-7/28/17	233,980	162	24.00	-	-	-	-	-	-	162	233,980
Sat-7/29/17	233,926	162	24.00	-	-	-	-	-	-	162	233,926
Sun-7/30/17	233,282	162	24.00	-	-	-	-	-	-	162	233,282
Mon-7/31/17	233,366	162	24.00	-	-	-	-	-	-	162	233,366
TOTALS	7,075,907	160	735.92	1,070,125	31	575.20	2,414,815	70	576.30	237	10,560,847

TOTAL VOLUME EXTRACTED :	10,560,847 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	236.58 GPM

07/07/17 - TW-18 was shut down briefly due to DTE Energy power outages in the area caused by storms.
 07/24/17 - 07/31/17 - TW-19 and TW-23 were shut down due to maintenance to the communications system.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
04/20/17	40
05/22/17	69
06/09/17	48
07/14/17	48

A2 Cleaning Supply	
Date	1,4-Dioxane ug/L
04/13/17	46
05/16/17	69
06/01/17	76
07/12/17	82

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-07-10-17-08:40-1	07/10/17	110
TW-20-07-10-17-08:10-1	07/10/17	900
LB-1-07-26-17-09:07-1	07/26/17	400
LB-4-07-11-17-08:10-1	07/11/17	480
TW-21-07-11-17-09:04-1	07/11/17	190
TW-18-07-10-17-08:00-1	07/10/17	280
TW-19-07-11-17-11:03-1	07/11/17	720
TW-23-07-11-17-11:05-1	07/11/17	470
TW-22-07-10-17-08:30-1	07/10/17	440
TW-8-07-10-17-08:31-1	07/10/17	700

RED POND DATA

Month of: Jul-17

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Sat-7/1/17	3:05	(1)		5.2	-	24.00	494
Sun-7/2/17	3:00	(1)		5.2	-	24.00	494
Mon-7/3/17	3:00		Y	5.3	-	24.00	493
Tue-7/4/17	3:00		Y	5.3	-	24.00	494
Wed-7/5/17	3:00		Y	5.4	-	24.00	493
Thu-7/6/17	3:00		Y	5.5	-	24.00	491
Fri-7/7/17	3:00		Y	5.5	-	23.90	459
Sat-7/8/17	3:00	(1)		5.9	-	24.00	472
Sun-7/9/17	3:00	(1)		5.7	-	24.00	472
Mon-7/10/17	3:00		Y	5.4	-	24.00	472
Tue-7/11/17	3:00		Y	5.3	-	24.00	473
Wed-7/12/17	3:00		Y	5.1	-	24.00	473
Thu-7/13/17	3:00		Y	4.9	-	24.00	487
Fri-7/14/17	3:00		Y	5.0	-	24.00	498
Sat-7/15/17	3:00	(1)		5.1	-	24.00	494
Sun-7/16/17	3:00	(1)		5.1	-	24.00	493
Mon-7/17/17	3:00		Y	5.1	-	24.00	494
Tue-7/18/17	3:00		Y	5.4	-	24.00	494
Wed-7/19/17	3:00		Y	5.4	-	24.00	493
Thu-7/20/17	3:00		Y	5.5	-	24.00	494
Fri-7/21/17	3:00		Y	5.5	-	24.00	494
Sat-7/22/17	3:00	(1)		5.6	-	24.00	494
Sun-7/23/17	3:00	(1)		5.7	-	24.00	491
Mon-7/24/17	3:00		Y	5.6	-	24.00	461
Tue-7/25/17	3:00		Y	5.3	-	24.00	443
Wed-7/26/17	3:00		Y	4.9	-	24.00	416
Thu-7/27/17	3:00		Y	5.4	-	24.00	490
Fri-7/28/17	3:00		Y	5.4	-	24.00	486
Sat-7/29/17	3:00	(1)		5.2	-	23.80	492
Sun-7/30/17	3:00	(1)		5.1	-	24.00	488
Mon-7/31/17	3:00		Y	5.0	-	24.00	490
TOTALS			-	-	-	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

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-07-05-17-07:30-1	7/5/2017	410
Red Pond-07-10-17-07:55-1	7/10/2017	370
Red Pond-07-17-17-06:50-1	7/17/2017	390
Red Pond-07-24-17-10:00-1	7/24/2017	380
Red Pond-07-31-17-08:46-1	7/31/2017	390

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

OZONE OPERATION REPORT

Month of: Jul-17

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
Sat-7/1/17	3:07 AM	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Sun-7/2/17	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-7/3/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-7/4/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-7/5/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-7/6/17	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Fri-7/7/17	3:00 AM		240	22.27	0	0.00	240	21.32	0	0.00
Sat-7/8/17	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-7/9/17	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-7/10/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-7/11/17	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Wed-7/12/17	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Thu-7/13/17	3:00 AM		240	23.83	0	0.00	240	23.82	0	0.00
Fri-7/14/17	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Sat-7/15/17	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Sun-7/16/17	3:00 AM	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-7/17/17	3:00 AM		240	22.38	0	0.00	240	24.00	0	0.00
Tue-7/18/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-7/19/17	3:00 AM		240	24.00	0	0.00	239	24.00	0	0.00
Thu-7/20/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-7/21/17	3:00 AM		240	23.83	0	0.00	240	23.83	0	0.00
Sat-7/22/17	3:00 AM	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Sun-7/23/17	3:00 AM	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-7/24/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-7/25/17	3:00 AM		240	23.68	0	0.00	241	23.72	0	0.00
Wed-7/26/17	3:00 AM		239	19.48	0	0.00	241	19.47	0	0.00
Thu-7/27/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-7/28/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-7/29/17	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Sun-7/30/17	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-7/31/17	3:00 AM		240	24.00	0	0.00	241	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.

07/07/17 - Treatment was shut down briefly due to DTE Energy power outages in the area caused by storms.

07/17/17 - System 1A was shut down briefly for maintenance.

07/26/17 - Treatment was shut down briefly for maintenance.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: Jul-17

			Green Pond																				
Date	Time	Notes	Pond			Aeration			Influent			Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet		Hours	Influent Hours	Influent GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	
Sat-7/1/17	3:05 AM	(1)		-		-						496	714,947	24.00	-	-	-	-	-	-	-	-	
Sun-7/2/17	3:00 AM	(1)		-		-						496	714,844	24.00	-	-	-	-	-	-	-	-	
Mon-7/3/17	3:00 AM		Y	-		-						496	714,784	24.00	-	-	-	-	-	-	-	-	
Tue-7/4/17	3:00 AM		Y	-		-						496	714,711	24.00	-	-	-	-	-	-	-	-	
Wed-7/5/17	3:00 AM		Y	-		-						496	714,718	24.00	-	-	-	-	-	-	-	-	
Thu-7/6/17	3:00 AM		Y	-		-						496	714,871	24.00	-	-	-	-	-	-	-	-	
Fri-7/7/17	3:00 AM		Y	-		-						486	643,965	22.08	-	-	-	-	-	-	-	-	
Sat-7/8/17	3:00 AM	(1)		-		-						496	714,643	24.00	-	-	-	-	-	-	-	-	
Sun-7/9/17	3:00 AM	(1)		-		-						496	714,573	24.00	-	-	-	-	-	-	-	-	
Mon-7/10/17	3:00 AM		Y	-		-						496	714,893	24.00	-	-	-	-	-	-	-	-	
Tue-7/11/17	3:00 AM		Y	-		-						497	715,316	24.00	-	-	-	-	-	-	-	-	
Wed-7/12/17	3:00 AM		Y	-		-						497	715,266	24.00	-	-	-	-	-	-	-	-	
Thu-7/13/17	3:00 AM		Y	-		-						497	708,612	23.75	-	-	-	-	-	-	-	-	
Fri-7/14/17	3:00 AM		Y	-		-						498	717,078	24.00	-	-	-	-	-	-	-	-	
Sat-7/15/17	3:00 AM	(1)		-		-						498	717,049	24.00	-	-	-	-	-	-	-	-	
Sun-7/16/17	3:00 AM	(1)		-		-						498	717,237	24.00	-	-	-	-	-	-	-	-	
Mon-7/17/17	3:00 AM		Y	-		-						480	691,243	24.00	-	-	-	-	-	-	-	-	
Tue-7/18/17	3:00 AM		Y	-		-						498	717,041	24.00	-	-	-	-	-	-	-	-	
Wed-7/19/17	3:00 AM		Y	-		-						498	717,113	24.00	-	-	-	-	-	-	-	-	
Thu-7/20/17	3:00 AM		Y	-		-						498	717,248	24.00	-	-	-	-	-	-	-	-	
Fri-7/21/17	3:00 AM		Y	-		-						497	706,881	23.72	-	-	-	-	-	-	-	-	
Sat-7/22/17	3:00 AM	(1)		-		-						497	715,953	24.00	-	-	-	-	-	-	-	-	
Sun-7/23/17	3:00 AM	(1)		-		-						497	715,843	24.00	-	-	-	-	-	-	-	-	
Mon-7/24/17	3:00 AM		Y	-		-						497	715,836	24.00	-	-	-	-	-	-	-	-	
Tue-7/25/17	3:00 AM		Y	-		-						496	703,699	23.63	-	-	-	-	-	-	-	-	
Wed-7/26/17	3:00 AM		Y	-		-						496	577,076	19.38	-	-	-	-	-	-	-	-	
Thu-7/27/17	3:00 AM		Y	-		-						497	715,688	24.00	-	-	-	-	-	-	-	-	
Fri-7/28/17	3:00 AM		Y	-		-						497	715,609	24.00	-	-	-	-	-	-	-	-	
Sat-7/29/17	3:00 AM	(1)		-		-						497	715,507	24.00	-	-	-	-	-	-	-	-	
Sun-7/30/17	3:00 AM	(1)		-		-						497	715,483	24.00	-	-	-	-	-	-	-	-	
Mon-7/31/17	3:00 AM		Y	-		-						497	715,621	24.00	-	-	-	-	-	-	-	-	
TOTALS													21,923,348	737									

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
7/1/2017	0.715											
7/2/2017	0.715			6.9							<5	
7/3/2017	0.715			6.3							5.9	
7/4/2017	0.715			6.5							5.8	
7/5/2017	0.715			6.4	0.410	<100	yes	yes	6.6	6.6	6.8	50
7/6/2017	0.715			6		<100	no	no	6.6	6.6	6.8	
7/7/2017	0.644					<100	no	yes	6.6	6.6		50
7/8/2017	0.715											
7/9/2017	0.715			6.6							7.4	
7/10/2017	0.715			6.2	0.370	<100	yes	yes	6.6	6.6	5.3	50
7/11/2017	0.715			6		<100	no	no	6.6	6.6	6.9	
7/12/2017	0.715			6.5		<100	no	no	6.7	6.7	5.6	
7/13/2017	0.709			6.6		<100	no	yes	6.6	6.6	5.5	40
7/14/2017	0.717	210	1.239			<100	no	no	6.6	6.6		
7/15/2017	0.717											
7/16/2017	0.717			6.4							6.4	
7/17/2017	0.691			7	0.390	<100	yes	yes	6.6	6.6	6.1	30
7/18/2017	0.717			6.5		<100	no	no	6.6	6.6	6	
7/19/2017	0.717			6.4		<100	no	no	6.7	6.7	<5	
7/20/2017	0.717			6.1		<100	no	yes	6.6	6.6	6.4	60
7/21/2017	0.707					<100	no	no	6.7	6.7		
7/22/2017	0.716											
7/23/2017	0.716			6.2							6.6	
7/24/2017	0.716			6.2	0.380	<100	yes	yes	6.6	6.6	6.2	50
7/25/2017	0.704			6.2		<100	no	no	6.6	6.6	7.2	
7/26/2017	0.577			6.4		<100	no	no	6.6	6.6	7.3	
7/27/2017	0.716			6.2		<100	no	yes	6.6	6.6	8	50
7/28/2017	0.716					<100	no	no	6.6	6.6		
7/29/2017	0.716											
7/30/2017	0.715			5.8							7.8	
7/31/2017	0.716			5.9	0.390	<100	yes	yes	6.6	6.6	7.1	60
Discharged	21.923											
Monthly Avg				6.3							6.0	