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October 9, 2018

Tiffany Myers, District Supervisor
Surface Water Quality Division
Michigan Department of Environmental Quality
301 East Louis Glick Highway
Jackson, Michigan 49201

**Re: Monitoring Report # 257
September 1 – September 30, 2018**

Dear Ms. Myers:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of September 1 through September 30, 2018.

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.
Matthew Naud, City of Ann Arbor



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UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Sep-18

Date	TW-21			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
	Sat-9/1/18	101,067	70	24.00	70
Sun-9/2/18	101,112	70	24.00	70	101,112
Mon-9/3/18	101,097	70	24.00	70	101,097
Tue-9/4/18	101,091	70	24.00	70	101,091
Wed-9/5/18	101,094	70	24.00	70	101,094
Thu-9/6/18	100,982	70	24.00	70	100,982
Fri-9/7/18	100,967	70	24.00	70	100,967
Sat-9/8/18	100,965	70	24.00	70	100,965
Sun-9/9/18	100,914	70	24.00	70	100,914
Mon-9/10/18	89,039	62	24.00	62	89,039
Tue-9/11/18	86,572	60	24.00	60	86,572
Wed-9/12/18	86,583	60	24.00	60	86,583
Thu-9/13/18	86,557	60	24.00	60	86,557
Fri-9/14/18	86,590	60	24.00	60	86,590
Sat-9/15/18	86,630	60	24.00	60	86,630
Sun-9/16/18	86,631	60	24.00	60	86,631
Mon-9/17/18	86,633	60	24.00	60	86,633
Tue-9/18/18	92,616	64	24.00	64	92,616
Wed-9/19/18	93,784	65	24.00	65	93,784
Thu-9/20/18	93,755	65	24.00	65	93,755
Fri-9/21/18	93,749	65	24.00	65	93,749
Sat-9/22/18	93,677	65	24.00	65	93,677
Sun-9/23/18	65,350	65	16.77	45	65,350
Mon-9/24/18	75,843	65	19.42	53	75,843
Tue-9/25/18	93,774	65	24.00	65	93,774
Wed-9/26/18	93,714	65	24.00	65	93,714
Thu-9/27/18	93,682	65	24.00	65	93,682
Fri-9/28/18	93,704	65	24.00	65	93,704
Sat-9/29/18	93,715	65	24.00	65	93,715
Sun-9/30/18	93,734	65	24.00	65	93,734
TOTALS	2,775,621	65	708.19	64	2,775,621

TOTAL VOLUME EXTRACTED :	2,775,621 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	64.25 GPM

09/23/18 - 9/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: **Sep-18**

Date	LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Sat-9/1/18	144,183	100	24.00	100	144,183
Sun-9/2/18	144,165	100	24.00	100	144,165
Mon-9/3/18	144,160	100	24.00	100	144,160
Tue-9/4/18	144,240	100	24.00	100	144,240
Wed-9/5/18	144,209	100	24.00	100	144,209
Thu-9/6/18	140,758	100	23.45	98	140,758
Fri-9/7/18	144,240	100	24.00	100	144,240
Sat-9/8/18	144,182	100	24.00	100	144,182
Sun-9/9/18	144,167	100	24.00	100	144,167
Mon-9/10/18	144,210	100	24.00	100	144,210
Tue-9/11/18	144,125	100	24.00	100	144,125
Wed-9/12/18	144,203	100	24.00	100	144,203
Thu-9/13/18	144,221	100	24.00	100	144,221
Fri-9/14/18	144,214	100	24.00	100	144,214
Sat-9/15/18	144,178	100	24.00	100	144,178
Sun-9/16/18	144,187	100	24.00	100	144,187
Mon-9/17/18	144,167	100	24.00	100	144,167
Tue-9/18/18	144,152	100	24.00	100	144,152
Wed-9/19/18	144,216	100	24.00	100	144,216
Thu-9/20/18	144,229	100	24.00	100	144,229
Fri-9/21/18	143,189	100	23.83	99	143,189
Sat-9/22/18	144,173	100	24.00	100	144,173
Sun-9/23/18	106,339	100	17.71	74	106,339
Mon-9/24/18	110,362	100	18.36	77	110,362
Tue-9/25/18	144,223	100	24.00	100	144,223
Wed-9/26/18	144,164	100	24.00	100	144,164
Thu-9/27/18	144,263	100	24.00	100	144,263
Fri-9/28/18	144,194	100	24.00	100	144,194
Sat-9/29/18	144,180	100	24.00	100	144,180
Sun-9/30/18	144,208	100	24.00	100	144,208
TOTALS	4,249,701	100	707.35	98	4,249,701

TOTAL VOLUME EXTRACTED :	4,249,701 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	98.37 GPM

09/23/18 - 9/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

CORE AREA EXTRACTION DATA

Month of: **Sep-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
Sat-9/1/18	16,135	11	24.00	43,154	30	24.00	41	59,289
Sun-9/2/18	5,051	12	7.30	43,032	30	24.00	33	48,083
Mon-9/3/18	224		-	42,931	30	24.00	30	43,155
Tue-9/4/18	11,427	11	16.95	42,904	30	24.00	38	54,331
Wed-9/5/18	16,021	11	24.00	43,021	30	24.00	41	59,042
Thu-9/6/18	15,974	11	24.00	43,096	30	24.00	41	59,070
Fri-9/7/18	16,045	11	24.00	43,010	30	24.00	41	59,055
Sat-9/8/18	16,140	11	24.00	43,095	30	24.00	41	59,235
Sun-9/9/18	16,241	11	24.00	43,019	30	24.00	41	59,260
Mon-9/10/18	16,342	11	24.00	43,275	30	24.00	41	59,617
Tue-9/11/18	16,414	11	24.00	43,081	30	24.00	41	59,495
Wed-9/12/18	16,398	11	24.00	43,407	30	24.00	42	59,805
Thu-9/13/18	16,394	11	24.00	43,159	30	24.00	41	59,553
Fri-9/14/18	16,413	11	24.00	43,232	30	24.00	41	59,645
Sat-9/15/18	16,445	11	24.00	43,176	30	24.00	41	59,621
Sun-9/16/18	16,459	11	24.00	43,377	30	24.00	42	59,836
Mon-9/17/18	16,457	11	24.00	43,227	30	24.00	41	59,684
Tue-9/18/18	16,492	11	24.00	43,403	30	24.00	42	59,895
Wed-9/19/18	16,505	11	24.00	43,174	30	24.00	41	59,679
Thu-9/20/18	16,513	11	24.00	43,047	30	24.00	41	59,560
Fri-9/21/18	16,538	11	24.00	42,669	31	23.30	41	59,207
Sat-9/22/18	16,558	11	24.00	39,563	38	17.45	39	56,121
Sun-9/23/18	11,105	11	16.72	27,394	38	12.15	27	38,499
Mon-9/24/18	13,051	11	19.42	35,197	30	19.45	34	48,248
Tue-9/25/18	16,182	11	24.00	43,536	30	24.00	41	59,718
Wed-9/26/18	16,193	11	24.00	43,348	30	24.00	41	59,541
Thu-9/27/18	16,283	11	24.00	43,493	30	24.00	42	59,776
Fri-9/28/18	16,377	11	24.00	43,257	30	24.00	41	59,634
Sat-9/29/18	16,479	11	24.00	43,497	30	24.00	42	59,976
Sun-9/30/18	16,546	11	24.00	43,365	30	24.00	42	59,911
TOTALS	449,402	11	660.38	1,268,139	31	696.35	40	1,717,541

TOTAL VOLUME EXTRACTED :	1,717,541 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	39.76 GPM

09/02/18 - 09/04/18 - Dolph was down due to a DTE Energy power outage caused by storms in the area.
 09/22/18 - TW-20 was shut down due to DTE Energy power loss.
 09/23/18 - 9/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

MARSHY AREA EXTRACTION DATA

Month of: Sep-18

Marshy Well Extraction				Daily	Daily
Date	PW-1 Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Sat-9/1/18	1,450	4	6.62	1	1,450
Sun-9/2/18	1,424	5	4.75	1	1,424
Mon-9/3/18	1,501	2	12.45	1	1,501
Tue-9/4/18	1,636	1	23.18	1	1,636
Wed-9/5/18	1,647	1	23.60	1	1,647
Thu-9/6/18	1,779	1	24.00	1	1,779
Fri-9/7/18	1,885	1	24.00	1	1,885
Sat-9/8/18	1,932	1	24.00	1	1,932
Sun-9/9/18	1,946	1	24.00	1	1,946
Mon-9/10/18	1,971	1	24.00	1	1,971
Tue-9/11/18	1,995	1	24.00	1	1,995
Wed-9/12/18	1,954	1	24.00	1	1,954
Thu-9/13/18	1,981	1	24.00	1	1,981
Fri-9/14/18	2,019	1	24.00	1	2,019
Sat-9/15/18	2,047	1	24.00	1	2,047
Sun-9/16/18	2,107	1	24.00	1	2,107
Mon-9/17/18	2,088	1	24.00	1	2,088
Tue-9/18/18	2,051	1	24.00	1	2,051
Wed-9/19/18	2,022	1	24.00	1	2,022
Thu-9/20/18	1,993	1	24.00	1	1,993
Fri-9/21/18	1,902	1	24.00	1	1,902
Sat-9/22/18	1,875	1	24.00	1	1,875
Sun-9/23/18	1,306	1	16.72	1	1,306
Mon-9/24/18	1,594	1	19.45	1	1,594
Tue-9/25/18	2,025	1	24.00	1	2,025
Wed-9/26/18	2,006	1	24.00	1	2,006
Thu-9/27/18	2,044	1	24.00	1	2,044
Fri-9/28/18	2,092	1	24.00	1	2,092
Sat-9/29/18	2,083	1	24.00	1	2,083
Sun-9/30/18	2,025	1	24.00	1	2,025
TOTALS	56,380	2	658.77	1	56,380

TOTAL VOLUME EXTRACTED :	56,380 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	1.31 GPM

09/01/18 - 09/03/18 - PW-1 was down due to flow fluctuations.

09/23/18 - 09/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

SOUTHWEST AREA EXTRACTION DATA

Month of: Sep-18

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-9/1/18	18,336	13	24.00	13	18,336
Sun-9/2/18	18,210	13	24.00	13	18,210
Mon-9/3/18	18,069	13	24.00	13	18,069
Tue-9/4/18	17,984	12	24.00	12	17,984
Wed-9/5/18	17,938	12	24.00	12	17,938
Thu-9/6/18	17,749	12	24.00	12	17,749
Fri-9/7/18	17,642	12	24.00	12	17,642
Sat-9/8/18	17,596	12	24.00	12	17,596
Sun-9/9/18	17,530	12	24.00	12	17,530
Mon-9/10/18	17,448	12	24.00	12	17,448
Tue-9/11/18	17,269	12	24.00	12	17,269
Wed-9/12/18	17,148	12	24.00	12	17,148
Thu-9/13/18	17,069	12	24.00	12	17,069
Fri-9/14/18	16,996	12	24.00	12	16,996
Sat-9/15/18	16,906	12	24.00	12	16,906
Sun-9/16/18	16,839	12	24.00	12	16,839
Mon-9/17/18	16,774	12	24.00	12	16,774
Tue-9/18/18	16,649	12	24.00	12	16,649
Wed-9/19/18	16,487	11	24.00	11	16,487
Thu-9/20/18	16,390	11	24.00	11	16,390
Fri-9/21/18	16,345	11	24.00	11	16,345
Sat-9/22/18	16,111	11	24.00	11	16,111
Sun-9/23/18	11,202	11	16.70	8	11,202
Mon-9/24/18	13,259	11	19.47	9	13,259
Tue-9/25/18	16,336	11	24.00	11	16,336
Wed-9/26/18	16,316	11	24.00	11	16,316
Thu-9/27/18	16,327	11	24.00	11	16,327
Fri-9/28/18	16,331	11	24.00	11	16,331
Sat-9/29/18	16,329	11	24.00	11	16,329
Sun-9/30/18	16,333	11	24.00	11	16,333
TOTALS	501,918	12	708.17	12	501,918

TOTAL VOLUME EXTRACTED :	501,918 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	11.62 GPM

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

09/23/18 - 9/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

UNIT "E" EXTRACTION DATA

Month of: Sep-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
Sat-9/1/18	241,092	167	24.00	44,011	31	24.00	99,195	69	24.00	267	384,298
Sun-9/2/18	241,137	167	24.00	44,057	31	24.00	99,119	69	24.00	267	384,313
Mon-9/3/18	241,090	167	24.00	44,605	31	24.00	99,089	69	24.00	267	384,784
Tue-9/4/18	241,155	167	24.00	44,814	31	24.00	99,124	69	24.00	267	385,093
Wed-9/5/18	241,161	167	24.00	44,803	31	24.00	99,125	69	24.00	267	385,089
Thu-9/6/18	241,044	167	24.00	43,040	31	23.20	95,718	69	23.20	264	379,802
Fri-9/7/18	240,895	167	23.98	44,423	31	24.00	99,227	69	24.00	267	384,545
Sat-9/8/18	241,036	167	24.00	44,504	31	24.00	99,172	69	24.00	267	384,712
Sun-9/9/18	240,861	167	24.00	44,559	31	24.00	99,114	69	24.00	267	384,534
Mon-9/10/18	223,068	155	24.00	44,623	31	24.00	99,196	69	24.00	255	366,887
Tue-9/11/18	219,196	152	24.00	44,634	31	24.00	99,172	69	24.00	252	363,002
Wed-9/12/18	219,234	152	24.00	43,977	31	23.80	97,648	69	23.60	251	360,859
Thu-9/13/18	219,210	152	24.00	44,136	31	24.00	99,167	69	24.00	252	362,513
Fri-9/14/18	219,264	152	24.00	44,132	31	24.00	99,138	69	24.00	252	362,534
Sat-9/15/18	219,310	152	24.00	44,104	31	24.00	99,132	69	24.00	252	362,546
Sun-9/16/18	219,242	152	24.00	44,090	31	24.00	99,139	69	24.00	252	362,471
Mon-9/17/18	219,310	152	24.00	44,058	31	24.00	99,150	69	24.00	252	362,518
Tue-9/18/18	237,495	165	24.00	44,053	31	24.00	99,136	69	24.00	264	380,684
Wed-9/19/18	241,114	167	24.00	44,031	31	24.00	99,139	69	24.00	267	384,284
Thu-9/20/18	241,104	167	24.00	44,039	31	24.00	99,144	69	24.00	267	384,287
Fri-9/21/18	241,130	167	24.00	43,255	31	23.50	97,146	69	23.50	265	381,531
Sat-9/22/18	241,012	167	24.00	44,203	31	24.00	99,217	69	24.00	267	384,432
Sun-9/23/18	168,157	167	16.73	28,451	31	15.40	63,759	69	15.40	181	260,367
Mon-9/24/18	195,175	167	19.45	39,009	32	20.60	85,245	69	20.60	222	319,429
Tue-9/25/18	241,065	167	24.00	45,096	31	24.00	99,110	69	24.00	268	385,271
Wed-9/26/18	241,021	167	24.00	45,150	31	24.00	99,157	69	24.00	268	385,328
Thu-9/27/18	241,018	167	24.00	45,203	31	24.00	99,188	69	24.00	268	385,409
Fri-9/28/18	241,012	167	24.00	45,243	31	24.00	99,221	69	24.00	268	385,476
Sat-9/29/18	240,979	167	24.00	45,266	31	24.00	99,249	69	24.00	268	385,494
Sun-9/30/18	241,019	167	24.00	45,286	31	24.00	99,224	69	24.00	268	385,529
TOTALS	6,938,606	163	708.17	1,310,855	31	706.50	2,918,560	69	706.30	259	11,168,021

TOTAL VOLUME EXTRACTED :	11,168,021 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	258.52 GPM

09/23/18 - 9/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
06/06/18	81
07/03/18	46
08/07/18	61
09/05/18	78

A2 Cleaning Supply	
Date	1,4-Dioxane ug/L
06/07/18	81
07/03/18	75
08/07/18	84
09/07/18	84

Date	Gallons Purged
9/7/2018	28,000

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-09-12-18-09:02-1	09/12/18	120
TW-20-09-12-18-09:00-1	09/12/18	970
LB-4-09-12-18-13:41-1	09/12/18	500
TW-21-09-12-18-09:30-1	09/12/18	230
TW-18-09-12-18-09:45-1	09/12/18	250
TW-19-09-12-18-14:00-1	09/12/18	470
TW-23-09-12-18-13:38-1	09/12/18	560
PW-1-09-12-18-09:01-1	09/12/18	1100
TW-22-09-12-18-09:24-1	09/12/18	470
TW-8-09-12-18-09:20-1	09/12/18	730

RED POND DATA

Month of: Sep-18

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Sat-9/1/18	3:05 AM	(1)		4.3	-	24.00	492
Sun-9/2/18	3:00 AM	(1)		4.9	-	24.00	484
Mon-9/3/18	3:00 AM		Y	4.9	-	24.00	481
Tue-9/4/18	3:00 AM		Y	4.9	-	24.00	489
Wed-9/5/18	3:00 AM		Y	5.0	-	24.00	492
Thu-9/6/18	3:00 AM		Y	5.6	-	24.00	486
Fri-9/7/18	3:00 AM		Y	5.9	-	24.00	492
Sat-9/8/18	3:00 AM	(1)		6.3	-	24.00	492
Sun-9/9/18	3:00 AM	(1)		6.3	-	24.00	492
Mon-9/10/18	3:00 AM		Y	6.4	-	24.00	472
Tue-9/11/18	3:00 AM		Y	6.1	-	24.00	467
Wed-9/12/18	3:00 AM		Y	6.6	-	24.00	466
Thu-9/13/18	3:00 AM		Y	6.3	-	24.00	467
Fri-9/14/18	3:00 AM		Y	6.0	-	24.00	467
Sat-9/15/18	3:00 AM	(1)		5.7	-	24.00	467
Sun-9/16/18	3:00 AM	(1)		5.4	-	24.00	467
Mon-9/17/18	3:00 AM		Y	5.1	-	24.00	467
Tue-9/18/18	3:00 AM		Y	4.8	-	24.00	483
Wed-9/19/18	3:00 AM		Y	4.7	-	24.00	486
Thu-9/20/18	3:00 AM		Y	4.7	-	24.00	486
Fri-9/21/18	3:00 AM		Y	4.7	-	24.00	483
Sat-9/22/18	3:00 AM	(1)		4.7	-	24.00	484
Sun-9/23/18	3:00 AM	(1)		4.6	-	17.71	455
Mon-9/24/18	3:00 AM		Y	4.7	-	19.47	487
Tue-9/25/18	3:00 AM		Y	4.7	-	24.00	487
Wed-9/26/18	3:00 AM		Y	4.8	-	24.00	487
Thu-9/27/18	3:00 AM		Y	4.7	-	24.00	487
Fri-9/28/18	3:00 AM		Y	4.7	-	24.00	487
Sat-9/29/18	3:00 AM	(1)		4.7	-	24.00	487
Sun-9/30/18	3:00 AM	(1)		4.7	-	24.00	487
TOTALS			-	-	-	709	

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-09-04-18-08:10-1	9/4/2018	360
Red Pond-09-10-18-07:30-1	9/10/2018	380
Red Pond-09-17-18-09:38-1	9/17/2018	420
Red Pond-09-24-18-10:04-1	9/24/2018	390

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

OZONE OPERATION REPORT

Month of: Sep-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
Sat-9/1/18	3:05 AM	(1)	239	22.13	0	0.00	241	22.47	0	0.00
Sun-9/2/18	3:00 AM	(1)	240	23.83	0	0.00	240	24.00	0	0.00
Mon-9/3/18	3:00 AM		240	23.88	0	0.00	241	24.00	0	0.00
Tue-9/4/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-9/5/18	3:00 AM		239	24.00	0	0.00	241	24.00	0	0.00
Thu-9/6/18	3:00 AM		239	22.47	0	0.00	240	22.20	0	0.00
Fri-9/7/18	3:00 AM		240	23.83	0	0.00	240	23.85	0	0.00
Sat-9/8/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-9/9/18	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-9/10/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Tue-9/11/18	3:00 AM		240	21.20	0	0.00	240	21.17	0	0.00
Wed-9/12/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-9/13/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-9/14/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-9/15/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-9/16/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-9/17/18	3:00 AM		241	24.00	0	0.00	240	24.00	0	0.00
Tue-9/18/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-9/19/18	3:00 AM		239	24.00	0	0.00	241	24.00	0	0.00
Thu-9/20/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-9/21/18	3:00 AM		240	23.93	0	0.00	240	23.78	0	0.00
Sat-9/22/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-9/23/18	3:00 AM	(1)	240	16.20	0	0.00	240	16.20	0	0.00
Mon-9/24/18	3:00 AM		0	19.47	0	0.00	0	19.47	0	0.00
Tue-9/25/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-9/26/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-9/27/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-9/28/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-9/29/18	3:00 AM	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Sun-9/30/18	3:00 AM	(1)	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.

09/01/18, 09/06/18, 09/11/18 -Treatment was shut down briefly for maintenance.

09/23/18 - 9/24/18 - Extraction and treatment were down due to a DTE Energy power fluctuation.

GREEN POND / DISCHARGE DATA

Month of: **Sep-18**

Date	Time	Notes	Green Pond			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
Sat-9/1/18	3:05 AM	(1)		-	-				489	659,610	22.47	-	-	-	-	-	-
Sun-9/2/18	3:00 AM	(1)		-	-				495	713,068	24.00	-	-	-	-	-	-
Mon-9/3/18	3:00 AM		Y	-	-				495	713,513	24.00	-	-	-	-	-	-
Tue-9/4/18	3:00 AM		Y	-	-				498	716,742	24.00	-	-	-	-	-	-
Wed-9/5/18	3:00 AM		Y	-	-				498	716,988	24.00	-	-	-	-	-	-
Thu-9/6/18	3:00 AM		Y	-	-				494	624,021	21.05	-	-	-	-	-	-
Fri-9/7/18	3:00 AM		Y	-	-				497	708,435	23.77	-	-	-	-	-	-
Sat-9/8/18	3:00 AM	(1)		-	-				497	715,889	24.00	-	-	-	-	-	-
Sun-9/9/18	3:00 AM	(1)		-	-				497	715,636	24.00	-	-	-	-	-	-
Mon-9/10/18	3:00 AM		Y	-	-				497	715,873	24.00	-	-	-	-	-	-
Tue-9/11/18	3:00 AM		Y	-	-				496	626,082	21.02	-	-	-	-	-	-
Wed-9/12/18	3:00 AM		Y	-	-				497	715,861	24.00	-	-	-	-	-	-
Thu-9/13/18	3:00 AM		Y	-	-				497	715,996	24.00	-	-	-	-	-	-
Fri-9/14/18	3:00 AM		Y	-	-				497	716,099	24.00	-	-	-	-	-	-
Sat-9/15/18	3:00 AM	(1)		-	-				497	716,392	24.00	-	-	-	-	-	-
Sun-9/16/18	3:00 AM	(1)		-	-				498	716,605	24.00	-	-	-	-	-	-
Mon-9/17/18	3:00 AM		Y	-	-				498	716,559	24.00	-	-	-	-	-	-
Tue-9/18/18	3:00 AM		Y	-	-				498	716,582	24.00	-	-	-	-	-	-
Wed-9/19/18	3:00 AM		Y	-	-				498	716,553	24.00	-	-	-	-	-	-
Thu-9/20/18	3:00 AM		Y	-	-				498	716,413	24.00	-	-	-	-	-	-
Fri-9/21/18	3:00 AM		Y	-	-				496	708,371	23.80	-	-	-	-	-	-
Sat-9/22/18	3:00 AM	(1)		-	-				497	715,396	24.00	-	-	-	-	-	-
Sun-9/23/18	3:00 AM	(1)		-	-				497	482,971	16.20	-	-	-	-	-	-
Mon-9/24/18	3:00 AM		Y	-	-				495	578,708	19.48	-	-	-	-	-	-
Tue-9/25/18	3:00 AM		Y	-	-				498	716,505	24.00	-	-	-	-	-	-
Wed-9/26/18	3:00 AM		Y	-	-				498	716,628	24.00	-	-	-	-	-	-
Thu-9/27/18	3:00 AM		Y	-	-				497	716,306	24.00	-	-	-	-	-	-
Fri-9/28/18	3:00 AM		Y	-	-				497	716,329	24.00	-	-	-	-	-	-
Sat-9/29/18	3:00 AM	(1)		-	-				497	716,337	24.00	-	-	-	-	-	-
Sun-9/30/18	3:00 AM	(1)		-	-				498	716,466	24.00	-	-	-	-	-	-
TOTALS				-	-					20,856,934	700						

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
9/1/2018	0.660	*G	*G										
9/2/2018	0.713			5.5								5.4	
9/3/2018	0.714			5.2								5.5	
9/4/2018	0.717			4.8	0.360	<50	<.16	No	No	6.7	6.7	8	25
9/5/2018	0.717			5.8		<50	<.16	Yes	Yes	6.7	6.7	5	
9/6/2018	0.624			5.6		<50	<.16	No	No	6.8	6.8	6.2	
9/7/2018	0.708					<50	<.16	No	Yes	6.8	6.8		35
9/8/2018	0.716												
9/9/2018	0.716			5.6								<5	
9/10/2018	0.716			5.4	0.380	<50	<.16	Yes	Yes	6.7	6.7	5.3	30
9/11/2018	0.626			5		<50	<.16	No	No	6.7	6.7	<5	
9/12/2018	0.716			5.2		<50	<.16	No	Yes	6.7	6.7	7.4	
9/13/2018	0.716			5.1		<50	<.16	No	No	6.7	6.7	5.7	50
9/14/2018	0.716					<50	<.16	No	No	6.7	6.7		
9/15/2018	0.716												
9/16/2018	0.717			5.4								7	
9/17/2018	0.717			5.1	0.420	<50	<.16	Yes	Yes	6.7	6.7	7.7	25
9/18/2018	0.717			5.3		<50	<.16	No	No	6.7	6.7	6.4	
9/19/2018	0.717			5.4		<50	<.16	No	Yes	6.7	6.7	5.5	50
9/20/2018	0.716			5		<50	<.16	No	No	6.7	6.7	<5	
9/21/2018	0.708					<50	<.16	No	No	6.7	6.7		
9/22/2018	0.715												
9/23/2018	0.483			5.4								<5	
9/24/2018	0.579			5.9	0.390	<50	<.16	Yes	Yes	6.7	6.7	8.1	45
9/25/2018	0.717			5.5		<50	<.16	No	No	6.8	6.8	7.1	
9/26/2018	0.717			5.1		<50	<.16	No	Yes	6.7	6.7	6.6	
9/27/2018	0.716			5.8		<50	<.16	No	No	6.7	6.7	7.9	50
9/28/2018	0.716					<50	<.16	No	No	6.8	6.8		
9/29/2018	0.716												
9/30/2018	0.716			5.4								7.3	
Discharged (mg)	20.857												
Monthly Avg				5.4								5.3	

9/3/18 - Holiday