



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

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SEP 14 2018

DEQ . RRD
JACKSON DISTRICT OFFICE

September 12, 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 # 256
August 1 – August 31, 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 August 1 through August 31, 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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EXTRACTION DATA

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UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Aug-18

Date	TW-21			Daily Flow	Daily Total
	TW-21			GPM	Gallons
	Gallons	GPM	Run Hrs.		
Wed-8/1/18	101,006	70	24.00	70	101,006
Thu-8/2/18	101,085	70	24.00	70	101,085
Fri-8/3/18	101,073	70	24.00	70	101,073
Sat-8/4/18	101,097	70	24.00	70	101,097
Sun-8/5/18	101,131	70	24.00	70	101,131
Mon-8/6/18	54,300	70	12.92	38	54,300
Tue-8/7/18	38,165	65	9.72	27	38,165
Wed-8/8/18	93,932	65	24.00	65	93,932
Thu-8/9/18	93,914	65	24.00	65	93,914
Fri-8/10/18	65,316	65	16.72	45	65,316
Sat-8/11/18	-	-	-	-	-
Sun-8/12/18	-	-	-	-	-
Mon-8/13/18	51,278	65	13.10	36	51,278
Tue-8/14/18	93,871	65	24.00	65	93,871
Wed-8/15/18	93,894	65	24.00	65	93,894
Thu-8/16/18	93,860	65	24.00	65	93,860
Fri-8/17/18	93,871	65	24.00	65	93,871
Sat-8/18/18	93,886	65	24.00	65	93,886
Sun-8/19/18	93,839	65	24.00	65	93,839
Mon-8/20/18	93,825	65	24.00	65	93,825
Tue-8/21/18	93,801	65	24.00	65	93,801
Wed-8/22/18	93,783	65	24.00	65	93,783
Thu-8/23/18	93,833	65	24.00	65	93,833
Fri-8/24/18	93,812	65	24.00	65	93,812
Sat-8/25/18	93,791	65	24.00	65	93,791
Sun-8/26/18	93,834	65	24.00	65	93,834
Mon-8/27/18	97,052	67	24.00	67	97,052
Tue-8/28/18	101,062	70	24.00	70	101,062
Wed-8/29/18	101,055	70	24.00	70	101,055
Thu-8/30/18	101,004	70	24.00	70	101,004
Fri-8/31/18	101,038	70	24.00	70	101,038
TOTALS	2,623,408	67	652.46	59	2,623,408

TOTAL VOLUME EXTRACTED :	2,623,408 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	58.77 GPM

08/06/18 - 08/07/18 - Extraction & Treatment was shut down due to a DTE Energy power outage
 08/10/18 - 08/13/18 - TW-21 was shut down to adjust the Pond level.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Aug-18

Date	LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Wed-8/1/18	144,230	100	24.00	100	144,230
Thu-8/2/18	144,184	100	24.00	100	144,184
Fri-8/3/18	144,159	100	24.00	100	144,159
Sat-8/4/18	144,187	100	24.00	100	144,187
Sun-8/5/18	144,113	100	24.00	100	144,113
Mon-8/6/18	84,729	100	14.13	59	84,729
Tue-8/7/18	52,222	100	8.68	36	52,222
Wed-8/8/18	144,164	100	24.00	100	144,164
Thu-8/9/18	144,085	100	24.00	100	144,085
Fri-8/10/18	144,149	100	24.00	100	144,149
Sat-8/11/18	144,221	100	24.00	100	144,221
Sun-8/12/18	142,767	100	23.76	99	142,767
Mon-8/13/18	137,900	100	22.96	96	137,900
Tue-8/14/18	144,118	100	24.00	100	144,118
Wed-8/15/18	144,156	100	24.00	100	144,156
Thu-8/16/18	144,230	100	24.00	100	144,230
Fri-8/17/18	144,181	100	24.00	100	144,181
Sat-8/18/18	128,639	99	21.56	89	128,639
Sun-8/19/18	144,185	100	24.00	100	144,185
Mon-8/20/18	144,085	100	24.00	100	144,085
Tue-8/21/18	144,126	100	24.00	100	144,126
Wed-8/22/18	144,116	100	24.00	100	144,116
Thu-8/23/18	144,134	100	24.00	100	144,134
Fri-8/24/18	144,182	100	24.00	100	144,182
Sat-8/25/18	144,184	100	24.00	100	144,184
Sun-8/26/18	144,201	100	24.00	100	144,201
Mon-8/27/18	144,211	100	24.00	100	144,211
Tue-8/28/18	144,210	100	24.00	100	144,210
Wed-8/29/18	144,162	100	24.00	100	144,162
Thu-8/30/18	144,137	100	24.00	100	144,137
Fri-8/31/18	144,185	100	24.00	100	144,185
TOTALS	4,294,552	100	715.09	96	4,294,552

TOTAL VOLUME EXTRACTED :	4,294,552 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	96.20 GPM

08/06/18 - 08/07/18 - Extraction & Treatment was shut down due to a DTE Energy power outage
 08/13/18 - LB-4 was shut down briefly due to a DTE Energy power outage.
 08/18/18 - LB-4 was shut down briefly due to a DTE Energy power outage.

CORE AREA EXTRACTION DATA

Month of: **Aug-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
Wed-8/1/18	15,957	11	24.00	43,218	30	24.00	41	59,175
Thu-8/2/18	16,461	11	24.00	43,023	30	24.00	41	59,484
Fri-8/3/18	15,790	11	24.00	42,897	30	24.00	41	58,687
Sat-8/4/18	15,740	11	24.00	43,108	30	24.00	41	58,848
Sun-8/5/18	15,713	11	24.00	43,293	30	24.00	41	59,006
Mon-8/6/18	8,482	11	12.98	23,244	30	12.90	22	31,726
Tue-8/7/18	6,638	11	9.68	15,969	30	8.90	16	22,607
Wed-8/8/18	15,912	11	24.00	43,541	30	24.00	41	59,453
Thu-8/9/18	15,701	11	24.00	43,529	30	24.00	41	59,230
Fri-8/10/18	15,763	11	24.00	38,861	27	24.00	38	54,624
Sat-8/11/18	16,206	11	24.00	28,863	20	24.00	31	45,069
Sun-8/12/18	16,307	11	24.00	28,873	20	24.00	31	45,180
Mon-8/13/18	16,190	11	24.00	36,727	26	24.00	37	52,917
Tue-8/14/18	15,945	11	24.00	43,274	30	24.00	41	59,219
Wed-8/15/18	15,944	11	24.00	43,215	30	24.00	41	59,159
Thu-8/16/18	15,930	11	24.00	43,340	30	24.00	41	59,270
Fri-8/17/18	15,961	11	24.00	43,208	30	24.00	41	59,169
Sat-8/18/18	16,004	11	24.00	43,089	30	24.00	41	59,093
Sun-8/19/18	16,030	11	24.00	43,045	30	24.00	41	59,075
Mon-8/20/18	16,060	11	24.00	43,068	30	24.00	41	59,128
Tue-8/21/18	16,044	11	24.00	43,180	30	24.00	41	59,224
Wed-8/22/18	15,999	11	24.00	42,915	30	24.00	41	58,914
Thu-8/23/18	16,052	11	24.00	43,037	30	24.00	41	59,089
Fri-8/24/18	16,104	11	24.00	43,125	30	24.00	41	59,229
Sat-8/25/18	16,129	11	24.00	42,958	30	24.00	41	59,087
Sun-8/26/18	16,146	11	24.00	42,996	30	24.00	41	59,142
Mon-8/27/18	16,138	11	24.00	43,313	30	24.00	41	59,451
Tue-8/28/18	16,110	11	24.00	43,073	30	24.00	41	59,183
Wed-8/29/18	16,106	11	24.00	42,951	30	24.00	41	59,057
Thu-8/30/18	16,121	11	24.00	42,787	30	24.00	41	58,908
Fri-8/31/18	16,163	11	24.00	43,084	30	24.00	41	59,247
TOTALS	479,846	11	718.67	1,250,804	29	717.80	39	1,730,650

TOTAL VOLUME EXTRACTED :	1,730,650 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	38.77 GPM

08/06/18 - 08/07/18 - Extraction & Treatment was shut down due to a DTE Energy power outage

MARSHY AREA EXTRACTION DATA

Month of: Aug-18

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1 Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-8/1/18	1,356	2	10.20	1	1,356
Thu-8/2/18	1,465	2	11.17	1	1,465
Fri-8/3/18	1,479	2	11.03	1	1,479
Sat-8/4/18	1,303	2	11.02	1	1,303
Sun-8/5/18	1,205	-	-	1	1,205
Mon-8/6/18	667	-	-	0	667
Tue-8/7/18	-	-	-	-	-
Wed-8/8/18	1,563	1	19.18	1	1,563
Thu-8/9/18	1,965	1	24.00	1	1,965
Fri-8/10/18	1,976	1	24.00	1	1,976
Sat-8/11/18	1,916	1	24.00	1	1,916
Sun-8/12/18	1,907	1	24.00	1	1,907
Mon-8/13/18	2,068	1	24.00	1	2,068
Tue-8/14/18	2,022	1	24.00	1	2,022
Wed-8/15/18	1,957	1	24.00	1	1,957
Thu-8/16/18	1,895	1	24.00	1	1,895
Fri-8/17/18	1,856	1	24.00	1	1,856
Sat-8/18/18	1,780	1	23.78	1	1,780
Sun-8/19/18	1,721	1	24.00	1	1,721
Mon-8/20/18	1,669	1	23.80	1	1,669
Tue-8/21/18	1,663	1	23.73	1	1,663
Wed-8/22/18	1,651	1	23.78	1	1,651
Thu-8/23/18	1,661	1	24.00	1	1,661
Fri-8/24/18	1,637	1	23.65	1	1,637
Sat-8/25/18	1,621	1	23.32	1	1,621
Sun-8/26/18	1,583	1	21.50	1	1,583
Mon-8/27/18	1,553	1	19.12	1	1,553
Tue-8/28/18	1,507	2	13.22	1	1,507
Wed-8/29/18	1,515	2	14.33	1	1,515
Thu-8/30/18	1,508	2	13.22	1	1,508
Fri-8/31/18	1,489	2	10.63	1	1,489
TOTALS	49,158	2	560.68	1	49,158

TOTAL VOLUME EXTRACTED :	49,158 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	1.10 GPM

PW-1 was shut down intermittently due to low flow.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Aug-18**

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-8/1/18	17,944	12	24.00	12	17,944
Thu-8/2/18	17,912	12	24.00	12	17,912
Fri-8/3/18	17,907	12	24.00	12	17,907
Sat-8/4/18	17,960	12	24.00	12	17,960
Sun-8/5/18	17,957	12	24.00	12	17,957
Mon-8/6/18	8,995	12	12.88	6	8,995
Tue-8/7/18	6,642	13	8.65	5	6,642
Wed-8/8/18	18,369	13	24.00	13	18,369
Thu-8/9/18	18,406	13	24.00	13	18,406
Fri-8/10/18	18,294	13	24.00	13	18,294
Sat-8/11/18	17,932	12	24.00	12	17,932
Sun-8/12/18	17,933	12	24.00	12	17,933
Mon-8/13/18	18,206	13	24.00	13	18,206
Tue-8/14/18	18,456	13	24.00	13	18,456
Wed-8/15/18	18,463	13	24.00	13	18,463
Thu-8/16/18	18,479	13	24.00	13	18,479
Fri-8/17/18	18,479	13	24.00	13	18,479
Sat-8/18/18	18,478	13	24.00	13	18,478
Sun-8/19/18	18,480	13	24.00	13	18,480
Mon-8/20/18	18,501	13	24.00	13	18,501
Tue-8/21/18	18,500	13	24.00	13	18,500
Wed-8/22/18	18,492	13	24.00	13	18,492
Thu-8/23/18	18,502	13	24.00	13	18,502
Fri-8/24/18	18,497	13	24.00	13	18,497
Sat-8/25/18	18,480	13	24.00	13	18,480
Sun-8/26/18	18,474	13	24.00	13	18,474
Mon-8/27/18	18,460	13	24.00	13	18,460
Tue-8/28/18	18,415	13	24.00	13	18,415
Wed-8/29/18	18,415	13	24.00	13	18,415
Thu-8/30/18	18,407	13	24.00	13	18,407
Fri-8/31/18	18,412	13	24.00	13	18,412
TOTALS	546,847	13	717.53	12	546,847

TOTAL VOLUME EXTRACTED :	546,847 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	12.25 GPM

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

08/06/18 - 08/07/18 - Extraction & Treatment was shnt down due to a DTE Energy power outage

UNIT "E" EXTRACTION DATA

Month of: Aug-18

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.		
Wed-8/1/18	241,044	167	24.00	45,598	32	24.00	99,130	69	24.00	268	385,772
Thu-8/2/18	241,086	167	24.00	45,597	32	24.00	99,121	69	24.00	268	385,804
Fri-8/3/18	241,091	167	24.00	45,558	32	24.00	99,173	69	24.00	268	385,822
Sat-8/4/18	241,065	168	23.98	45,522	32	24.00	99,307	69	24.00	268	385,894
Sun-8/5/18	241,135	167	24.00	45,511	32	24.00	99,057	69	24.00	268	385,703
Mon-8/6/18	129,537	167	12.90	22,245	31	11.80	48,471	68	11.80	139	200,253
Tue-8/7/18	91,999	157	9.75	20,627	32	10.90	45,252	69	10.90	110	157,878
Wed-8/8/18	226,392	157	24.00	45,486	32	24.00	99,200	69	24.00	258	371,078
Thu-8/9/18	226,438	157	24.00	45,640	32	24.00	99,239	69	24.00	258	371,317
Fri-8/10/18	157,622	157	16.72	43,642	31	23.60	98,409	69	23.80	208	299,673
Sat-8/11/18	-	-	-	44,744	31	24.00	99,113	69	24.00	100	143,857
Sun-8/12/18	-	-	-	41,973	31	22.50	92,991	69	22.50	94	134,964
Mon-8/13/18	123,770	157	13.12	44,571	31	24.00	99,121	69	24.00	186	267,462
Tue-8/14/18	226,431	157	24.00	44,602	31	24.00	99,293	69	24.00	257	370,326
Wed-8/15/18	226,474	157	24.00	44,612	31	24.00	99,150	69	24.00	257	370,236
Thu-8/16/18	226,425	157	24.00	44,674	31	24.00	99,149	69	24.00	257	370,248
Fri-8/17/18	226,475	157	24.00	44,700	31	24.00	99,150	69	24.00	257	370,325
Sat-8/18/18	226,460	157	24.00	40,355	31	21.60	89,502	69	21.70	247	356,317
Sun-8/19/18	226,456	157	24.00	45,192	31	24.00	99,193	69	24.00	258	370,841
Mon-8/20/18	226,470	157	24.00	45,424	32	24.00	99,286	69	24.00	258	371,180
Tue-8/21/18	226,369	157	24.00	45,567	32	24.00	99,107	69	24.00	258	371,043
Wed-8/22/18	226,418	157	24.00	45,565	32	24.00	99,090	69	24.00	258	371,073
Thu-8/23/18	226,434	157	24.00	44,943	31	23.90	99,016	69	23.90	257	370,393
Fri-8/24/18	226,460	157	24.00	44,738	31	24.00	99,151	69	24.00	257	370,349
Sat-8/25/18	226,449	157	24.00	44,737	31	24.00	99,115	69	24.00	257	370,301
Sun-8/26/18	226,482	157	24.00	44,765	31	24.00	99,219	69	24.00	257	370,466
Mon-8/27/18	233,034	162	24.00	44,798	31	24.00	99,100	69	24.00	262	376,932
Tue-8/28/18	240,924	167	24.00	44,818	31	24.00	99,112	69	24.00	267	384,854
Wed-8/29/18	241,091	167	24.00	44,795	31	24.00	99,098	69	24.00	267	384,984
Thu-8/30/18	241,055	167	24.00	44,171	31	24.00	99,235	69	24.00	267	384,461
Fri-8/31/18	241,086	167	24.00	44,003	31	24.00	99,177	69	24.00	267	384,266
TOTALS	6,302,172	161	652.47	1,339,173	31	714.30	2,952,727	69	714.60	237	10,594,072

TOTAL VOLUME EXTRACTED :	10,594,072 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	237.32 GPM

08/06/18 - 08/07/18 - Extraction & Treatment was shut down due to a DTE Energy power outage
 08/10/18 - 08/13/18 - TW-18 was shut down to adjust the Pond level.
 08/12/18 - TW-19 & TW-23 were shut down briefly due to a DTE Energy power outage.
 08/18/18 - TW-19 and TW-23 were shut down briefly due to a DTE Energy power outage.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
05/09/18	57
06/06/18	81
07/03/18	46
08/07/18	61

A2 Cleaning Supply	
Date	1,4-Dioxane ug/L
05/08/18	82
06/07/18	81
07/03/18	75
08/07/18	84

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-08-10-18-08:10-1	08/10/18	130
TW-20-08-10-18-08:25-1	08/10/18	1000
LB-4-08-10-18-09:08-1	08/10/18	500
TW-21-08-10-18-09:28-1	08/10/18	230
TW-18-08-10-18-08:20-1	08/10/18	270
TW-19-08-10-18-09:18-1	08/10/18	480
TW-23-08-10-18-09:05-1	08/10/18	500
PW-1-08-10-18-08:15-1	08/10/18	1000
TW-22-08-10-18-08:35-1	08/10/18	400
TW-8-08-10-18-08:40-1	08/10/18	770

RED POND DATA

Month of: Aug-18

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Wed-8/1/18	8:40:05		Y	4.6	-	24.00	493
Thu-8/2/18	03:00:00		Y	5.1	-	24.00	493
Fri-8/3/18	03:00:00		Y	5.1	-	24.00	492
Sat-8/4/18	03:00:00	(1)		5.2	-	24.00	493
Sun-8/5/18	03:00:00	(1)		5.3	-	24.00	492
Mon-8/6/18	03:00:00		Y	5.3	-	14.13	449
Tue-8/7/18	15:34:33		Y	5.6	-	12.88	359
Wed-8/8/18	03:00:00		Y	5.5	-	24.00	478
Thu-8/9/18	03:00:00		Y	5.3	-	24.00	478
Fri-8/10/18	03:00:01		Y	5.2	-	24.00	406
Sat-8/11/18	03:00:00	(1)		5.7	-	24.00	245
Sun-8/12/18	03:00:00	(1)		5.7	-	24.00	238
Mon-8/13/18	03:00:00		Y	5.5	-	24.00	368
Tue-8/14/18	03:00:00		Y	5.7	-	24.00	478
Wed-8/15/18	03:00:00		Y	5.6	-	24.00	478
Thu-8/16/18	03:00:00		Y	5.4	-	24.00	478
Fri-8/17/18	03:00:01		Y	5.3	-	24.00	478
Sat-8/18/18	03:00:00	(1)		5.1	-	24.00	457
Sun-8/19/18	03:00:00	(1)		4.7	-	24.00	478
Mon-8/20/18	03:00:00		Y	4.5	-	24.00	478
Tue-8/21/18	03:00:00		Y	4.4	-	24.00	478
Wed-8/22/18	03:00:00		Y	4.4	-	24.00	478
Thu-8/23/18	03:00:00		Y	4.3	-	24.00	478
Fri-8/24/18	03:00:01		Y	4.1	-	24.00	478
Sat-8/25/18	03:00:00	(1)		4.0	-	24.00	477
Sun-8/26/18	03:00:00	(1)		4.0	-	24.00	478
Mon-8/27/18	03:00:00		Y	3.9	-	24.00	484
Tue-8/28/18	03:00:00		Y	3.9	-	24.00	493
Wed-8/29/18	03:00:00		Y	4.0	-	24.00	492
Thu-8/30/18	03:00:00		Y	4.1	-	24.00	492
Fri-8/31/18	03:00:00		Y	4.1	-	24.00	492
TOTALS			-	-	-	723	

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-08-06-18-09:02-1	8/6/2018	400
Red Pond-08-13-18-08:18-1	8/13/2018	470
Red Pond-08-20-18-10:45-1	8/20/2018	380
Red Pond-08-27-18-07:30-1	8/27/2018	400

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

OZONE OPERATION REPORT

Month of: Aug-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
Wed-8/1/18	8:40:05		240	23.55	0	0.00	240	23.55	0	0.00
Thu-8/2/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-8/3/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-8/4/18	03:00:00	(1)	240	23.90	0	0.00	240	23.90	0	0.00
Sun-8/5/18	03:00:00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-8/6/18	03:00:00		240	11.98	0	0.00	240	11.92	0	0.00
Tue-8/7/18	15:34:33		240	10.10	0	0.00	240	9.90	0	0.00
Wed-8/8/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-8/9/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-8/10/18	03:00:01		240	12.30	0	0.00	241	24.00	0	0.00
Sat-8/11/18	03:00:00	(1)	0	0.00	0	0.00	240	24.00	0	0.00
Sun-8/12/18	03:00:00	(1)	0	0.00	0	0.00	239	24.00	0	0.00
Mon-8/13/18	03:00:00		0	14.57	0	0.00	240	21.05	0	0.00
Tue-8/14/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-8/15/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-8/16/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-8/17/18	03:00:01		240	24.00	0	0.00	240	24.00	0	0.00
Sat-8/18/18	03:00:00	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Sun-8/19/18	03:00:00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-8/20/18	03:00:00		240	24.00	0	0.00	241	24.00	0	0.00
Tue-8/21/18	03:00:00		240	23.50	0	0.00	240	23.53	0	0.00
Wed-8/22/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-8/23/18	03:00:00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-8/24/18	03:00:01		240	23.73	0	0.00	240	24.00	0	0.00
Sat-8/25/18	03:00:00	(1)	240	23.28	0	0.00	240	24.00	0	0.00
Sun-8/26/18	03:00:00	(1)	239	23.87	0	0.00	240	24.00	0	0.00
Mon-8/27/18	03:00:00		241	24.00	0	0.00	240	24.00	0	0.00
Tue-8/28/18	03:00:00		240	23.70	0	0.00	241	24.00	0	0.00
Wed-8/29/18	03:00:00		239	23.93	0	0.00	240	24.00	0	0.00
Thu-8/30/18	03:00:00		240	23.92	0	0.00	240	24.00	0	0.00
Fri-8/31/18	03:00:00		240	23.92	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 end/or holiday.

08/06/18 - 08/07/18 - Extraction & Treatment was shut down due to a DTE Energy power outage

08/10/18 - 08/13/18 System 1A was shut down for maintenance.

08/13/18 - System 2A was shut down briefly for maintenance.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Aug-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	
Wed-8/1/18	8:40:05		Y	-	-				497	700,179	23.48	-	-	-	-	-	-		
Thu-8/2/18	03:00:00		Y	-	-				497	716,232	24.00	-	-	-	-	-	-		
Fri-8/3/18	03:00:00		Y	-	-				498	716,487	24.00	-	-	-	-	-	-		
Sat-8/4/18	03:00:00	(1)		-	-				494	711,338	24.00	-	-	-	-	-	-		
Sun-8/5/18	03:00:00	(1)		-	-				498	716,752	24.00	-	-	-	-	-	-		
Mon-8/6/18	03:00:00		Y	-	-				497	353,993	11.87	-	-	-	-	-	-		
Tue-8/7/18	15:34:33		Y	-	-				496	295,385	9.93	-	-	-	-	-	-		
Wed-8/8/18	03:00:00		Y	-	-				498	716,472	24.00	-	-	-	-	-	-		
Thu-8/9/18	03:00:00		Y	-	-				497	716,257	24.00	-	-	-	-	-	-		
Fri-8/10/18	03:00:01		Y	-	-				373	536,688	24.00	-	-	-	-	-	-		
Sat-8/11/18	03:00:00	(1)		-	-				250	359,596	24.00	-	-	-	-	-	-		
Sun-8/12/18	03:00:00	(1)		-	-				250	359,762	24.00	-	-	-	-	-	-		
Mon-8/13/18	03:00:00		Y	-	-				398	523,244	21.93	-	-	-	-	-	-		
Tue-8/14/18	03:00:00		Y	-	-				497	715,818	24.00	-	-	-	-	-	-		
Wed-8/15/18	03:00:00		Y	-	-				497	715,808	24.00	-	-	-	-	-	-		
Thu-8/16/18	03:00:00		Y	-	-				497	716,002	24.00	-	-	-	-	-	-		
Fri-8/17/18	03:00:01		Y	-	-				497	716,052	24.00	-	-	-	-	-	-		
Sat-8/18/18	03:00:00	(1)		-	-				497	716,317	24.00	-	-	-	-	-	-		
Sun-8/19/18	03:00:00	(1)		-	-				498	716,604	24.00	-	-	-	-	-	-		
Mon-8/20/18	03:00:00		Y	-	-				498	716,660	24.00	-	-	-	-	-	-		
Tue-8/21/18	03:00:00		Y	-	-				497	698,919	23.43	-	-	-	-	-	-		
Wed-8/22/18	03:00:00		Y	-	-				497	716,207	24.00	-	-	-	-	-	-		
Thu-8/23/18	03:00:00		Y	-	-				497	716,019	24.00	-	-	-	-	-	-		
Fri-8/24/18	03:00:01		Y	-	-				494	710,962	24.00	-	-	-	-	-	-		
Sat-8/25/18	03:00:00	(1)		-	-				487	700,822	24.00	-	-	-	-	-	-		
Sun-8/26/18	03:00:00	(1)		-	-				495	713,467	24.00	-	-	-	-	-	-		
Mon-8/27/18	03:00:00		Y	-	-				498	716,740	24.00	-	-	-	-	-	-		
Tue-8/28/18	03:00:00		Y	-	-				493	709,533	24.00	-	-	-	-	-	-		
Wed-8/29/18	03:00:00		Y	-	-				496	714,514	24.00	-	-	-	-	-	-		
Thu-8/30/18	03:00:00		Y	-	-				495	712,623	24.00	-	-	-	-	-	-		
Fri-8/31/18	03:00:00		Y	-	-				496	713,715	24.00	-	-	-	-	-	-		
TOTALS										20,259,167	715								

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
8/1/2018	0.700	*G	*G	5.3		<50	<0.16	Yes	Yes	6.9	6.9	6	
8/2/2018	0.716			5.8		<50	<0.16	No	No	6.9	6.9	6.3	35
8/3/2018	0.716									6.9	6.9		
8/4/2018	0.711												
8/5/2018	0.717			5.6		<50	<0.16	Yes	Yes			5.9	
8/6/2018	0.354				0.400	<50	<0.16	No	No	6.8	6.8		20
8/7/2018	0.295			6.9		<50	<0.16	No	No	6.8	6.8	6.5	
8/8/2018	0.716			6.1		<50	<0.16	No	Yes	6.8	6.8	5.7	
8/9/2018	0.716			5.8		<50	<0.16	No	No	6.8	6.8	5.4	30
8/10/2018	0.537									6.7	6.7		
8/11/2018	0.360												
8/12/2018	0.360			8.7		<50	<0.16	Yes	Yes			7.4	
8/13/2018	0.523			8.7	0.470	<50	<0.16	No	No	6.9	6.9	7.8	40
8/14/2018	0.716			5.8		<50	<0.16	No	No	6.8	6.8	6.5	
8/15/2018	0.716			4.9		<50	<0.16	No	Yes	7.0	7.0	6.3	
8/16/2018	0.716			5.1		<50	<0.16	No	No	6.7	6.7	6.3	25
8/17/2018	0.716									6.8	6.8		
8/18/2018	0.716												
8/19/2018	0.717			5.2		<50	<0.16	Yes	Yes			6.3	
8/20/2018	0.717			4.7	0.380	<50	<0.16	No	No	6.8	6.8	6.4	80
8/21/2018	0.699			5.3		<50	<0.16	No	No	6.7	6.7	5.8	
8/22/2018	0.716			5.1		<50	<0.16	No	Yes	6.8	6.8	5.7	
8/23/2018	0.716			5.1		<50	<0.16	No	No	6.8	6.8	5.4	60
8/24/2018	0.711									6.8	6.8		
8/25/2018	0.701												
8/26/2018	0.713			5.4		<50	<0.16	Yes	Yes			5	
8/27/2018	0.717			5.7	0.400	<50	<0.16	No	No	6.7	6.7	5	30
8/28/2018	0.710			5.8		<50	<0.16	No	No	6.8	6.8	5.8	
8/29/2018	0.715			5.3		<50	<0.16	No	Yes	6.8	6.8	5.2	
8/30/2018	0.713			5.3		<50	<0.16	No	No	6.8	6.8	<5	28
8/31/2018	0.714									6.8	6.8		
Discharged	20.259												
Monthly Avg				5.8								5.7	

8/6/18 - 8/7/18 DTE Energy power outage