



December 18, 2020

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

**Re: Monitoring Report # 283
November 1 – November 30, 2020**

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 November 1 through November 30, 2020.

Should you have any questions or concerns regarding this report, please contact me at 269-993-7585.

Sincerely,

FLEIS & VANDENBRINK

A handwritten signature in blue ink, appearing to read "Jim Brode", is written over a faint, light blue circular stamp.

Jim Brode, CPG
Senior Project Manager

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



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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: **Nov-20**

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
Sun-11/1/20	-	-	-	-	-	-	-	-	-	74,926	50	25.00	50	74,926
Mon-11/2/20	-	-	-	-	-	-	-	-	-	71,999	50	24.00	50	71,999
Tue-11/3/20	-	-	-	-	-	-	-	-	-	72,085	50	24.00	50	72,085
Wed-11/4/20	-	-	-	-	-	-	-	-	-	72,099	50	24.00	50	72,099
Thu-11/5/20	-	-	-	-	-	-	-	-	-	72,087	50	24.00	50	72,087
Fri-11/6/20	-	-	-	-	-	-	-	-	-	72,129	50	24.00	50	72,129
Sat-11/7/20	-	-	-	-	-	-	-	-	-	72,131	50	24.00	50	72,131
Sun-11/8/20	-	-	-	-	-	-	-	-	-	71,836	50	24.00	50	71,836
Mon-11/9/20	-	-	-	-	-	-	-	-	-	72,155	50	24.00	50	72,155
Tue-11/10/20	-	-	-	-	-	-	-	-	-	72,191	50	24.00	50	72,191
Wed-11/11/20	-	-	-	-	-	-	-	-	-	72,096	50	24.00	50	72,096
Thu-11/12/20	-	-	-	-	-	-	-	-	-	72,040	50	24.00	50	72,040
Fri-11/13/20	-	-	-	-	-	-	-	-	-	72,023	50	24.00	50	72,023
Sat-11/14/20	-	-	-	-	-	-	-	-	-	72,003	50	24.00	50	72,003
Sun-11/15/20	-	-	-	-	-	-	-	-	-	72,029	50	24.00	50	72,029
Mon-11/16/20	-	-	-	-	-	-	-	-	-	81,295	56	24.00	56	81,295
Tue-11/17/20	-	-	-	-	-	-	-	-	-	86,425	60	24.00	60	86,425
Wed-11/18/20	-	-	-	-	-	-	-	-	-	81,069	56	24.00	56	81,069
Thu-11/19/20	-	-	-	-	-	-	-	-	-	72,073	50	24.00	50	72,073
Fri-11/20/20	-	-	-	-	-	-	-	-	-	72,126	50	24.00	50	72,126
Sat-11/21/20	-	-	-	-	-	-	-	-	-	72,039	50	24.00	50	72,039
Sun-11/22/20	-	-	-	-	-	-	-	-	-	71,981	50	24.00	50	71,981
Mon-11/23/20	51	26	0.03	2,616	52	0.83	-	-	-	72,004	50	24.00	52	74,671
Tue-11/24/20	-	-	-	-	-	-	-	-	-	71,977	50	24.00	50	71,977
Wed-11/25/20	-	-	-	-	-	-	-	-	-	72,061	50	24.00	50	72,061
Thu-11/26/20	-	-	-	-	-	-	-	-	-	72,067	50	24.00	50	72,067
Fri-11/27/20	-	-	-	-	-	-	-	-	-	72,044	50	24.00	50	72,044
Sat-11/28/20	-	-	-	-	-	-	-	-	-	72,027	50	24.00	50	72,027
Sun-11/29/20	-	-	-	-	-	-	-	-	-	72,043	50	24.00	50	72,043
Mon-11/30/20	-	-	-	-	-	-	-	-	-	71,987	50	24.00	50	71,987
TOTALS	51	26	0.03	2,616	52	0.83	-	-	-	2,197,047	51	721.00	51	2,199,714

TOTAL VOLUME EXTRACTED :	2,199,714 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	50.92 GPM

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: **Nov-20**

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Sun-11/1/20	-	-	-	150,213	100	25.00	100	150,213
Mon-11/2/20	-	-	-	144,173	100	24.00	100	144,173
Tue-11/3/20	-	-	-	144,206	100	24.00	100	144,206
Wed-11/4/20	-	-	-	144,184	100	24.00	100	144,184
Thu-11/5/20	-	-	-	144,217	100	24.00	100	144,217
Fri-11/6/20	-	-	-	144,196	100	24.00	100	144,196
Sat-11/7/20	-	-	-	144,232	100	24.00	100	144,232
Sun-11/8/20	-	-	-	144,157	100	24.00	100	144,157
Mon-11/9/20	-	-	-	144,208	100	24.00	100	144,208
Tue-11/10/20	-	-	-	144,137	100	24.00	100	144,137
Wed-11/11/20	-	-	-	144,191	100	24.00	100	144,191
Thu-11/12/20	-	-	-	144,174	100	24.00	100	144,174
Fri-11/13/20	-	-	-	144,185	100	24.00	100	144,185
Sat-11/14/20	-	-	-	144,207	100	24.00	100	144,207
Sun-11/15/20	-	-	-	144,189	100	24.00	100	144,189
Mon-11/16/20	-	-	-	144,219	100	24.00	100	144,219
Tue-11/17/20	-	-	-	144,185	100	24.00	100	144,185
Wed-11/18/20	-	-	-	144,199	100	24.00	100	144,199
Thu-11/19/20	-	-	-	144,162	100	24.00	100	144,162
Fri-11/20/20	-	-	-	144,188	100	24.00	100	144,188
Sat-11/21/20	-	-	-	144,207	100	24.00	100	144,207
Sun-11/22/20	-	-	-	144,185	100	24.00	100	144,185
Mon-11/23/20	-	-	-	144,197	100	24.00	100	144,197
Tue-11/24/20	-	-	-	144,199	100	24.00	100	144,199
Wed-11/25/20	-	-	-	144,182	100	24.00	100	144,182
Thu-11/26/20	-	-	-	144,214	100	24.00	100	144,214
Fri-11/27/20	-	-	-	144,183	100	24.00	100	144,183
Sat-11/28/20	-	-	-	144,179	100	24.00	100	144,179
Sun-11/29/20	-	-	-	144,170	100	24.00	100	144,170
Mon-11/30/20	-	-	-	144,249	100	24.00	100	144,249
TOTALS	-	-	-	4,331,787	100	721.00	100	4,331,787

TOTAL VOLUME EXTRACTED :	4,331,787 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	100.27 GPM

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: Nov-20

Core Area Well Extraction																				
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			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.		
Sun-11/1/20	-	-	-	43,514	29	25.00	-	-	-	-	-	-	-	-	-	30,125	20	25.00	49	73,639
Mon-11/2/20	-	-	-	41,815	29	24.00	-	-	-	-	-	-	-	-	-	28,944	20	24.00	49	70,759
Tue-11/3/20	-	-	-	41,778	29	24.00	-	-	-	-	-	-	-	-	-	28,911	20	24.00	49	70,689
Wed-11/4/20	-	-	-	41,740	29	24.00	-	-	-	-	-	-	-	-	-	28,963	20	24.00	49	70,703
Thu-11/5/20	-	-	-	41,718	29	24.00	-	-	-	-	-	-	-	-	-	28,898	20	24.00	49	70,616
Fri-11/6/20	-	-	-	41,681	29	24.00	-	-	-	-	-	-	-	-	-	28,947	20	24.00	49	70,628
Sat-11/7/20	-	-	-	41,656	29	24.00	-	-	-	-	-	-	-	-	-	28,963	20	24.00	49	70,619
Sun-11/8/20	-	-	-	41,615	29	24.00	-	-	-	-	-	-	-	-	-	28,954	20	23.97	49	70,569
Mon-11/9/20	-	-	-	41,600	29	24.00	-	-	-	-	-	-	-	-	-	28,970	20	24.00	49	70,570
Tue-11/10/20	-	-	-	41,578	29	24.00	-	-	-	-	-	-	-	-	-	28,971	20	24.00	49	70,549
Wed-11/11/20	-	-	-	41,602	29	24.00	-	-	-	-	-	-	-	-	-	28,895	20	24.00	49	70,497
Thu-11/12/20	-	-	-	41,608	29	24.00	-	-	-	-	-	-	-	-	-	28,907	20	24.00	49	70,515
Fri-11/13/20	-	-	-	41,612	29	24.00	-	-	-	-	-	-	-	-	-	28,915	20	24.00	49	70,527
Sat-11/14/20	-	-	-	41,635	29	24.00	-	-	-	-	-	-	-	-	-	28,941	20	24.00	49	70,576
Sun-11/15/20	-	-	-	41,620	29	24.00	-	-	-	-	-	-	-	-	-	28,907	20	23.98	49	70,527
Mon-11/16/20	-	-	-	41,737	29	24.00	-	-	-	-	-	-	-	-	-	28,955	20	24.00	49	70,692
Tue-11/17/20	-	-	-	41,717	29	24.00	-	-	-	-	-	-	-	-	-	28,926	20	24.00	49	70,643
Wed-11/18/20	-	-	-	41,703	29	24.00	-	-	-	-	-	-	-	-	-	28,945	20	24.00	49	70,648
Thu-11/19/20	-	-	-	41,665	29	24.00	-	-	-	-	-	-	-	-	-	28,977	20	24.00	49	70,642
Fri-11/20/20	-	-	-	41,602	29	24.00	-	-	-	-	-	-	-	-	-	28,957	20	24.00	49	70,559
Sat-11/21/20	-	-	-	41,573	29	24.00	-	-	-	-	-	-	-	-	-	28,907	20	24.00	49	70,480
Sun-11/22/20	-	-	-	41,606	29	24.00	-	-	-	-	-	-	-	-	-	28,941	20	23.98	49	70,547
Mon-11/23/20	2,572	50	0.85	41,640	29	24.00	2,293	45	0.85	2,022	40	0.83	1,785	36	0.83	28,929	20	24.00	55	79,241
Tue-11/24/20	-	-	-	41,655	29	24.00	-	-	-	-	-	-	-	-	-	28,919	20	24.00	49	70,574
Wed-11/25/20	-	-	-	41,616	29	24.00	-	-	-	-	-	-	-	-	-	28,927	20	24.00	49	70,543
Thu-11/26/20	-	-	-	41,454	29	24.00	-	-	-	-	-	-	-	-	-	28,923	20	24.00	49	70,377
Fri-11/27/20	-	-	-	41,434	29	24.00	-	-	-	-	-	-	-	-	-	28,922	20	24.00	49	70,356
Sat-11/28/20	-	-	-	41,477	29	24.00	-	-	-	-	-	-	-	-	-	28,943	20	24.00	49	70,420
Sun-11/29/20	-	-	-	41,427	29	24.00	-	-	-	-	-	-	-	-	-	28,923	20	24.00	49	70,350
Mon-11/30/20	-	-	-	41,427	29	24.00	-	-	-	-	-	-	-	-	-	28,960	20	24.00	49	70,387
TOTALS	2,572	50	0.85	1,250,595	29	721.00	2,293	45	0.85	2,022	40	0.83	1,785	36	0.83	869,265	20	720.93	49	2,128,442

TOTAL VOLUME EXTRACTED :	2,128,442 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	49.27 GPM

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

MARSHY AREA EXTRACTION DATA

Month of: Nov-20

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1			GPM	Gallons
	Gallons	GPM	Run Hrs.		
Sun-11/1/20	1,806	1	25.00	1	1,806
Mon-11/2/20	1,741	1	24.00	1	1,741
Tue-11/3/20	1,729	1	24.00	1	1,729
Wed-11/4/20	1,725	1	24.00	1	1,725
Thu-11/5/20	1,730	1	24.00	1	1,730
Fri-11/6/20	1,760	1	24.00	1	1,760
Sat-11/7/20	1,769	1	24.00	1	1,769
Sun-11/8/20	1,742	1	24.00	1	1,742
Mon-11/9/20	1,738	1	24.00	1	1,738
Tue-11/10/20	1,762	1	24.00	1	1,762
Wed-11/11/20	1,771	1	24.00	1	1,771
Thu-11/12/20	1,768	1	24.00	1	1,768
Fri-11/13/20	1,771	1	24.00	1	1,771
Sat-11/14/20	1,781	1	24.00	1	1,781
Sun-11/15/20	1,788	1	24.00	1	1,788
Mon-11/16/20	1,787	1	24.00	1	1,787
Tue-11/17/20	1,794	1	24.00	1	1,794
Wed-11/18/20	1,801	1	24.00	1	1,801
Thu-11/19/20	1,797	1	24.00	1	1,797
Fri-11/20/20	1,791	1	24.00	1	1,791
Sat-11/21/20	1,800	1	24.00	1	1,800
Sun-11/22/20	1,804	1	24.00	1	1,804
Mon-11/23/20	1,805	1	24.00	1	1,805
Tue-11/24/20	1,814	1	24.00	1	1,814
Wed-11/25/20	1,807	1	24.00	1	1,807
Thu-11/26/20	1,808	1	24.00	1	1,808
Fri-11/27/20	1,817	1	24.00	1	1,817
Sat-11/28/20	1,823	1	24.00	1	1,823
Sun-11/29/20	1,822	1	24.00	1	1,822
Mon-11/30/20	1,840	1	24.00	1	1,840
	-		-		-
TOTALS	53,491	1	721.00	1	53,491

TOTAL VOLUME EXTRACTED :	53,491 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	1.24 GPM

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Nov-20**

SouthWest Well Extraction							Daily Flow	Daily Total
Date	TW22			TW28			GPM	Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Sun-11/1/20	1,095	<1	25.00	37,325	25	25.00	26	38,420
Mon-11/2/20	1,048	<1	24.00	35,815	25	24.00	26	36,863
Tue-11/3/20	1,048	<1	24.00	35,785	25	24.00	26	36,833
Wed-11/4/20	1,045	<1	24.00	35,785	25	24.00	26	36,830
Thu-11/5/20	1,028	<1	24.00	35,781	25	24.00	26	36,809
Fri-11/6/20	1,074	<1	23.88	35,797	25	24.00	26	36,871
Sat-11/7/20	1,033	<1	24.00	35,807	25	24.00	26	36,840
Sun-11/8/20	1,174	<1	23.50	35,559	25	23.65	26	36,733
Mon-11/9/20	1,139	<1	24.00	36,346	25	24.00	26	37,485
Tue-11/10/20	1,070	<1	24.00	36,338	25	24.00	26	37,408
Wed-11/11/20	1,042	<1	24.00	36,325	25	24.00	26	37,367
Thu-11/12/20	1,028	<1	24.00	36,307	25	24.00	26	37,335
Fri-11/13/20	1,023	<1	24.00	36,323	25	24.00	26	37,346
Sat-11/14/20	1,017	<1	24.00	36,314	25	24.00	26	37,331
Sun-11/15/20	1,007	<1	24.00	36,369	25	24.00	26	37,376
Mon-11/16/20	983	<1	24.00	36,335	25	24.00	26	37,318
Tue-11/17/20	974	<1	24.00	36,308	25	24.00	26	37,282
Wed-11/18/20	977	<1	24.00	36,307	25	24.00	26	37,284
Thu-11/19/20	1,015	<1	23.92	36,259	25	24.00	26	37,274
Fri-11/20/20	972	<1	24.00	36,160	25	24.00	26	37,132
Sat-11/21/20	968	<1	24.00	36,131	25	24.00	26	37,099
Sun-11/22/20	965	<1	24.00	36,153	25	24.00	26	37,118
Mon-11/23/20	948	<1	24.00	36,123	25	24.00	26	37,071
Tue-11/24/20	946	<1	24.00	36,137	25	24.00	26	37,083
Wed-11/25/20	932	<1	24.00	36,156	25	24.00	26	37,088
Thu-11/26/20	920	<1	24.00	36,139	25	24.00	26	37,059
Fri-11/27/20	917	<1	24.00	36,127	25	24.00	26	37,044
Sat-11/28/20	912	<1	24.00	36,110	25	24.00	26	37,022
Sun-11/29/20	907	<1	24.00	36,127	25	24.00	26	37,034
Mon-11/30/20	893	<1	24.00	36,171	25	24.00	26	37,064
TOTALS	30,100		720.30	1,084,719	25	720.65	26	1,114,819

TOTAL VOLUME EXTRACTED :	1,114,819 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	25.81 GPM

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Nov-20

Date	TW-11			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.		
Sun-11/1/20	-	-	-	-	-	-	228,791	153	25.00	59,937	40	25.00	90,199	60	25.00	253	378,927
Mon-11/2/20	-	-	-	-	-	-	219,722	153	24.00	57,602	40	24.00	86,560	60	24.00	253	363,884
Tue-11/3/20	-	-	-	-	-	-	219,769	153	24.00	57,578	40	24.00	86,556	60	24.00	253	363,903
Wed-11/4/20	-	-	-	-	-	-	219,798	153	24.00	57,555	40	24.00	86,582	60	24.00	253	363,933
Thu-11/5/20	-	-	-	-	-	-	219,759	153	24.00	57,542	40	24.00	86,578	60	24.00	253	363,879
Fri-11/6/20	-	-	-	-	-	-	219,782	153	24.00	57,003	40	23.76	85,590	60	23.73	252	362,375
Sat-11/7/20	-	-	-	-	-	-	219,726	153	24.00	57,623	40	24.00	86,590	60	24.00	253	363,939
Sun-11/8/20	-	-	-	-	-	-	218,974	152	23.93	57,593	40	23.98	86,537	60	23.98	252	363,104
Mon-11/9/20	-	-	-	-	-	-	219,788	153	24.00	57,577	40	24.00	86,510	60	24.00	253	363,875
Tue-11/10/20	-	-	-	-	-	-	219,806	153	24.00	52,710	40	22.05	79,463	60	22.05	244	351,979
Wed-11/11/20	-	-	-	-	-	-	219,730	153	24.00	57,399	40	24.00	86,519	60	24.00	253	363,648
Thu-11/12/20	-	-	-	-	-	-	219,702	153	24.00	57,454	40	24.00	86,558	60	24.00	253	363,714
Fri-11/13/20	-	-	-	-	-	-	219,690	153	24.00	57,478	40	24.00	86,591	60	24.00	253	363,759
Sat-11/14/20	-	-	-	-	-	-	219,685	153	24.00	57,503	40	24.00	86,564	60	24.00	253	363,752
Sun-11/15/20	-	-	-	-	-	-	219,685	153	23.98	57,526	40	23.98	86,548	60	23.98	253	363,759
Mon-11/16/20	-	-	-	-	-	-	233,803	162	24.00	57,519	40	24.00	86,575	60	24.00	262	377,897
Tue-11/17/20	-	-	-	-	-	-	241,690	168	24.00	57,531	40	24.00	86,601	60	24.00	268	385,822
Wed-11/18/20	-	-	-	-	-	-	238,945	166	24.00	57,568	40	24.00	86,583	60	24.00	266	383,096
Thu-11/19/20	-	-	-	-	-	-	234,347	163	24.00	57,548	40	24.00	86,571	60	24.00	263	378,466
Fri-11/20/20	-	-	-	-	-	-	234,367	163	24.00	57,472	40	24.00	86,549	60	24.00	263	378,388
Sat-11/21/20	-	-	-	-	-	-	234,346	163	24.00	57,451	40	24.00	86,587	60	24.00	263	378,384
Sun-11/22/20	-	-	-	-	-	-	234,305	163	23.98	57,520	40	23.98	86,564	60	23.98	263	378,389
Mon-11/23/20	-	-	-	1,783	36	0.83	234,354	163	24.00	57,556	40	24.00	86,597	60	24.00	264	380,290
Tue-11/24/20	-	-	-	-	-	-	234,343	163	24.00	57,576	40	24.00	86,600	60	24.00	263	378,519
Wed-11/25/20	-	-	-	-	-	-	234,352	163	24.00	57,598	40	24.00	86,593	60	24.00	263	378,543
Thu-11/26/20	-	-	-	-	-	-	234,370	163	24.00	57,572	40	24.00	86,592	60	24.00	263	378,534
Fri-11/27/20	-	-	-	-	-	-	234,350	163	24.00	57,555	40	24.00	86,689	60	24.00	263	378,574
Sat-11/28/20	-	-	-	-	-	-	234,311	163	24.00	57,556	40	24.00	86,610	60	24.00	263	378,477
Sun-11/29/20	-	-	-	-	-	-	234,365	163	24.00	57,574	40	24.00	86,683	60	24.00	263	378,622
Mon-11/30/20	-	-	-	-	-	-	225,086	156	24.00	57,607	40	24.00	86,656	60	24.00	256	369,329
TOTALS	-	-	-	1,783	36	0.83	6,821,741	158	720.90	1,723,261	40	718.75	2,592,975	60	718.72	258	11,139,760

TOTAL VOLUME EXTRACTED :	11,139,760 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	257.86 GPM

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.
 11/10/20 - TW-19 and TW-23 were shut down briefly due to communication loss.

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
08/04/20	23
09/01/20	38
10/01/20	22
11/03/20	31

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
08/04/20	52
09/01/20	57
10/01/20	56
11/03/20	57

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-11-06-20-08:40-1	11/06/20	140
TW-1-11-23-20-09:20-1	11/23/20	35
TW-10-11-23-20-09:17-1	11/23/20	320
TW-14-11-23-20-09:28-1	11/23/20	22
TW-20-11-06-20-08:50-1	11/06/20	910
TW-3-11-23-20-09:22-1	11/23/20	42
TW-6-11-11-20-11:09-1	11/11/20	76
LB-4-11-06-20-08:05-1	11/06/20	490
TW-21-11-06-20-09:05-1	11/06/20	300
TW-9-11-23-20-09:31-1	11/23/20	490
TW-17-11-23-20-09:25-1	11/23/20	330
TW-18-11-06-20-09:40-1	11/06/20	270
TW-19-11-06-20-08:20-1	11/06/20	460
TW-23-11-06-20-08:35-1	11/06/20	620
PW-1-11-06-20-08:45-1	11/06/20	650
TW-22-11-06-20-08:55-1	11/06/20	430
TW-28-11-06-20-09:00-1	11/06/20	750

RED POND DATA

Month of: Nov-20

			Red Pond				
Date	Time	Notes	Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Sun-11/1/20	04:00:00.000	(1)		4.2	-	25.00	479
Mon-11/2/20	04:00:00.000		Y	4.1	-	24.00	479
Tue-11/3/20	04:00:00.000		Y	4.0	-	24.00	479
Wed-11/4/20	04:00:00.000		Y	3.9	-	24.00	479
Thu-11/5/20	04:00:00.000		Y	3.9	-	24.00	479
Fri-11/6/20	04:00:00.000		Y	3.8	-	24.00	478
Sat-11/7/20	04:00:00.000	(1)		3.7	-	24.00	479
Sun-11/8/20	04:00:00.000	(1)		4.2	-	24.00	478
Mon-11/9/20	04:00:00.000		Y	4.0	-	24.00	479
Tue-11/10/20	04:00:00.000		Y	3.9	-	24.00	471
Wed-11/11/20	04:00:00.000		Y	3.9	-	24.00	479
Thu-11/12/20	04:00:00.000		Y	3.8	-	24.00	479
Fri-11/13/20	04:00:00.000		Y	3.7	-	24.00	479
Sat-11/14/20	04:00:00.000	(1)		3.6	-	24.00	479
Sun-11/15/20	04:00:00.000	(1)		3.6	-	24.00	479
Mon-11/16/20	04:00:00.000		Y	3.8	-	24.00	495
Tue-11/17/20	04:00:00.000		Y	4.2	-	24.00	504
Wed-11/18/20	04:00:00.000		Y	4.4	-	24.00	499
Thu-11/19/20	04:00:00.000		Y	4.4	-	24.00	489
Fri-11/20/20	04:00:00.000		Y	4.5	-	24.00	489
Sat-11/21/20	04:00:00.000	(1)		4.5	-	24.00	489
Sun-11/22/20	04:00:00.000	(1)		4.6	-	24.00	489
Mon-11/23/20	04:00:00.000		Y	4.9	-	24.00	498
Tue-11/24/20	04:00:00.000		Y	5.0	-	24.00	489
Wed-11/25/20	04:00:00.000		Y	5.0	-	24.00	489
Thu-11/26/20	04:00:00.000		Y	5.1	-	24.00	489
Fri-11/27/20	04:00:00.000		Y	5.2	-	24.00	489
Sat-11/28/20	04:00:00.000	(1)		5.3	-	24.00	489
Sun-11/29/20	04:00:00.000	(1)		5.2	-	24.00	489
Mon-11/30/20	04:00:00.000		Y	5.2	-	24.00	483
			-	-	-	-	-
TOTALS			-	-	-	721	-

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.

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

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-11-02-20-08:35-1	11/2/2020	360
Red Pond-11-09-20-09:50-1	11/9/2020	360
Red Pond-11-16-20-08:30-1	11/16/2020	380
Red Pond-11-23-20-08:25-1	11/23/2020	380
Red Pond-11-30-20-08:30-1	11/30/2020	390

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

OZONE OPERATION REPORT

Month of: Nov-20

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
Sun-11/1/20	14:00:00.00	(1)	240	25.00	0	0.00	240	25.00	0	0.00
Mon-11/2/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-11/3/20	14:00:00.00		241	24.00	0	0.00	239	24.00	0	0.00
Wed-11/4/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-11/5/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Fri-11/6/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-11/7/20	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-11/8/20	14:00:00.00	(1)	240	22.07	0	0.00	241	22.03	0	0.00
Mon-11/9/20	14:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Tue-11/10/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-11/11/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-11/12/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-11/13/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-11/14/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-11/15/20	14:00:00.00	(1)	241	24.00	0	0.00	240	23.98	0	0.00
Mon-11/16/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Tue-11/17/20	14:00:00.00		240	24.00	0	0.00	238	24.00	0	0.00
Wed-11/18/20	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Thu-11/19/20	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Fri-11/20/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-11/21/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-11/22/20	14:00:00.00	(1)	240	24.00	0	0.00	240	23.98	0	0.00
Mon-11/23/20	14:00:00.00		241	24.00	0	0.00	239	24.00	0	0.00
Tue-11/24/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-11/25/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Thu-11/26/20	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Fri-11/27/20	14:00:00.00		241	24.00	0	0.00	241	24.00	0	0.00
Sat-11/28/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-11/29/20	14:00:00.00	(1)	241	24.00	0	0.00	239	24.00	0	0.00
Mon-11/30/20	14:00:00.00		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.

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

11/8/20 - Treatment was shut down briefly due to a power outage.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Nov-20**

			Green Pond																	
Date	Time	Notes	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		
Sun-11/1/20	14:00:00.00	(1)		-	-						473	709,905	25.00	-	-	-	-	-	-	
Mon-11/2/20	14:00:00.00		Y	-	-						497	715,024	24.00	-	-	-	-	-	-	
Tue-11/3/20	14:00:00.00		Y	-	-						497	715,168	24.00	-	-	-	-	-	-	
Wed-11/4/20	14:00:00.00		Y	-	-						497	715,268	24.00	-	-	-	-	-	-	
Thu-11/5/20	14:00:00.00		Y	-	-						497	715,408	24.00	-	-	-	-	-	-	
Fri-11/6/20	14:00:00.00		Y	-	-						497	715,422	24.00	-	-	-	-	-	-	
Sat-11/7/20	14:00:00.00	(1)		-	-						497	715,452	24.00	-	-	-	-	-	-	
Sun-11/8/20	14:00:00.00	(1)		-	-						495	652,991	21.98	-	-	-	-	-	-	
Mon-11/9/20	14:00:00.00		Y	-	-						497	715,206	24.00	-	-	-	-	-	-	
Tue-11/10/20	14:00:00.00		Y	-	-						497	715,364	24.00	-	-	-	-	-	-	
Wed-11/11/20	14:00:00.00		Y	-	-						497	715,110	24.00	-	-	-	-	-	-	
Thu-11/12/20	14:00:00.00		Y	-	-						496	714,850	24.00	-	-	-	-	-	-	
Fri-11/13/20	14:00:00.00		Y	-	-						496	714,906	24.00	-	-	-	-	-	-	
Sat-11/14/20	14:00:00.00	(1)		-	-						496	714,747	24.00	-	-	-	-	-	-	
Sun-11/15/20	14:00:00.00	(1)		-	-						497	715,051	24.00	-	-	-	-	-	-	
Mon-11/16/20	14:00:00.00		Y	-	-						496	714,879	24.00	-	-	-	-	-	-	
Tue-11/17/20	14:00:00.00		Y	-	-						496	714,838	24.00	-	-	-	-	-	-	
Wed-11/18/20	14:00:00.00		Y	-	-						496	714,826	24.00	-	-	-	-	-	-	
Thu-11/19/20	14:00:00.00		Y	-	-						496	714,842	24.00	-	-	-	-	-	-	
Fri-11/20/20	14:00:00.00		Y	-	-						496	714,824	24.00	-	-	-	-	-	-	
Sat-11/21/20	14:00:00.00	(1)		-	-						496	714,827	24.00	-	-	-	-	-	-	
Sun-11/22/20	14:00:00.00	(1)		-	-						496	714,762	24.00	-	-	-	-	-	-	
Mon-11/23/20	14:00:00.00		Y	-	-						496	714,777	24.00	-	-	-	-	-	-	
Tue-11/24/20	14:00:00.00		Y	-	-						496	714,675	24.00	-	-	-	-	-	-	
Wed-11/25/20	14:00:00.00		Y	-	-						496	714,869	24.00	-	-	-	-	-	-	
Thu-11/26/20	14:00:00.00		Y	-	-						497	715,056	24.00	-	-	-	-	-	-	
Fri-11/27/20	14:00:00.00		Y	-	-						497	714,975	24.00	-	-	-	-	-	-	
Sat-11/28/20	14:00:00.00	(1)		-	-						496	714,906	24.00	-	-	-	-	-	-	
Sun-11/29/20	14:00:00.00	(1)		-	-						496	714,852	24.00	-	-	-	-	-	-	
Mon-11/30/20	14:00:00.00		Y	-	-						496	714,845	24.00	-	-	-	-	-	-	
			Y	-	-									-	-	-	-	-	-	
TOTALS												21,382,625	719							

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.

11/1/20 - Due to the end of daylight savings, the maximum run time on this date is 25 hours.

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	48478	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
11/1/2020	0.710	*G	*G	4.9								8.3	
11/2/2020	0.715			5.7	0.360	<50	<0.16	yes	yes	7.2	7.2	8.1	50
11/3/2020	0.715			6.0		<50	<0.16	no	no	7.2	7.2	8.6	
11/4/2020	0.715			5.8		<50	<0.16	no	yes	7.3	7.3	8.0	45
11/5/2020	0.715			5.2		<50	<0.16	no	no	7.2	7.2	8.3	
11/6/2020	0.715					<50	<0.16	no	no	7.1	7.1		
11/7/2020	0.715												
11/8/2020	0.653			5.5								7.2	
11/9/2020	0.715			6.0	0.360	<50	<0.16	yes	yes	7.1	7.1	7.9	58
11/10/2020	0.715			5.6		<50	<0.16	no	no	7.1	7.1	8.2	
11/11/2020	0.715			6.4		<50	<0.16	no	yes	7.2	7.2	7.6	44
11/12/2020	0.715			6.3		<50	<0.16	no	no	7.3	7.3	6.6	
11/13/2020	0.715					<50	<0.16	no	no	7.2	7.2		
11/14/2020	0.715												
11/15/2020	0.715			6.2								7.7	
11/16/2020	0.715			5.1	0.380	<50	<0.16	yes	yes	7.1	7.1	8.2	52
11/17/2020	0.715			5.7		<50	<0.16	no	no	7.1	7.1	8.0	
11/18/2020	0.715			6.1		<50	<0.16	no	yes	7.1	7.1	7.4	41
11/19/2020	0.715			6.3		<50	<0.16	no	no	7.1	7.1	7.5	
11/20/2020	0.715					<50	<0.16	no	no	7.1	7.1		
11/21/2020	0.715												
11/22/2020	0.715			5.2								6.7	
11/23/2020	0.715			5.7	0.380	<50	<0.16	yes	yes	7.1	7.1	7.2	56
11/24/2020	0.715			6.7		<50	<0.16	no	no	7.2	7.2	7.0	
11/25/2020	0.715			4.6		<50	<0.16	no	yes	7.1	7.1	9.3	42
11/26/2020	0.715			5.3								8.8	
11/27/2020	0.715												
11/28/2020	0.715												
11/29/2020	0.715			4.0								8.8	
11/30/2020	0.715			5.5	0.390	<50	<0.16	yes	yes	7.1	7.1	8.4	38
Discharged	21.383												
Monthly Avg				5.6								7.9	