



June 18, 2021

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

**Re: Monitoring Report #289  
May 1 – May 31, 2021**

Dear Mr. Mroczkowski:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of May 1 through May 31, 2021.

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 positioned above the printed name and title.

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: May-21

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
Sat-5/1/21	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Sun-5/2/21	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Mon-5/3/21	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Tue-5/4/21	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Wed-5/5/21	-	-	-	-	-	-	-	-	-	80,756	97	13.88	56	80,756
Thu-5/6/21	-	-	-	-	-	-	-	-	-	144,149	100	24.00	100	144,149
Fri-5/7/21	-	-	-	-	-	-	-	-	-	144,217	100	24.00	100	144,217
Sat-5/8/21	-	-	-	-	-	-	-	-	-	144,230	100	24.00	100	144,230
Sun-5/9/21	-	-	-	-	-	-	-	-	-	144,147	100	24.00	100	144,147
Mon-5/10/21	-	-	-	-	-	-	-	-	-	139,220	100	23.18	97	139,220
Tue-5/11/21	-	-	-	-	-	-	-	-	-	144,208	100	24.00	100	144,208
Wed-5/12/21	-	-	-	-	-	-	-	-	-	144,238	100	24.00	100	144,238
Thu-5/13/21	-	-	-	-	-	-	-	-	-	144,261	100	24.00	100	144,261
Fri-5/14/21	-	-	-	-	-	-	-	-	-	140,272	100	23.33	97	140,272
Sat-5/15/21	-	-	-	-	-	-	-	-	-	144,291	100	24.00	100	144,291
Sun-5/16/21	-	-	-	-	-	-	-	-	-	144,263	100	24.00	100	144,263
Mon-5/17/21	-	-	-	-	0	0.02	37	12	0.05	144,326	100	24.00	100	144,363
Tue-5/18/21	-	-	-	-	-	-	-	-	-	78,725	100	13.10	55	78,725
Wed-5/19/21	-	-	-	-	-	-	-	-	-	144,362	100	24.00	100	144,362
Thu-5/20/21	-	-	-	-	-	-	-	-	-	144,391	100	24.00	100	144,391
Fri-5/21/21	-	-	-	-	-	-	-	-	-	142,681	100	23.73	99	142,681
Sat-5/22/21	-	-	-	-	-	-	-	-	-	144,391	100	24.00	100	144,391
Sun-5/23/21	-	-	-	-	-	-	-	-	-	144,374	100	24.00	100	144,374
Mon-5/24/21	-	-	-	-	-	-	-	-	-	132,548	100	22.07	92	132,548
Tue-5/25/21	-	-	-	-	-	-	-	-	-	144,404	100	24.00	100	144,404
Wed-5/26/21	-	-	-	-	-	-	-	-	-	144,349	100	24.00	100	144,349
Thu-5/27/21	-	-	-	-	-	-	-	-	-	144,297	100	24.00	100	144,297
Fri-5/28/21	-	-	-	-	-	-	-	-	-	144,154	100	24.00	100	144,154
Sat-5/29/21	-	-	-	-	-	-	-	-	-	144,232	100	24.00	100	144,232
Sun-5/30/21	-	-	-	-	-	-	-	-	-	144,088	100	23.95	100	144,088
Mon-5/31/21	-	-	-	-	-	-	-	-	-	144,313	100	24.00	100	144,313
<b>TOTALS</b>	-	-	-	-	0	0.02	37	12	0.05	3,743,887	100	623.24	84	3,743,924

TOTAL VOLUME EXTRACTED :	3,743,924 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	83.87 GPM

5/1/21-5/5/21 - TW-21 was shut down for rehabilitation.

5/18/2021 - TW-21 was shut down for maintenance.

5/24/2021 - TW-21 was shut down briefly due to communication loss from a Comcast outage.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: May-21

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Sat-5/1/21	-		-	144,211	100	24.00	100	144,211
Sun-5/2/21	-		-	144,172	100	24.00	100	144,172
Mon-5/3/21	-		-	144,209	100	24.00	100	144,209
Tue-5/4/21	-		-	144,207	100	24.00	100	144,207
Wed-5/5/21	-		-	144,222	100	24.00	100	144,222
Thu-5/6/21	-		-	144,236	100	24.00	100	144,236
Fri-5/7/21	-		-	144,229	100	24.00	100	144,229
Sat-5/8/21	-		-	144,251	100	24.00	100	144,251
Sun-5/9/21	-		-	144,211	100	24.00	100	144,211
Mon-5/10/21	-		-	144,208	100	24.00	100	144,208
Tue-5/11/21	-		-	144,185	100	24.00	100	144,185
Wed-5/12/21	-		-	144,175	100	24.00	100	144,175
Thu-5/13/21	-		-	144,198	100	24.00	100	144,198
Fri-5/14/21	-		-	144,209	100	24.00	100	144,209
Sat-5/15/21	-		-	144,225	100	24.00	100	144,225
Sun-5/16/21	87	24	0.06	144,194	100	24.00	100	144,281
Mon-5/17/21	-		-	143,857	100	23.95	100	143,857
Tue-5/18/21	-		-	78,567	100	13.08	55	78,567
Wed-5/19/21	-		-	144,216	100	24.00	100	144,216
Thu-5/20/21	-		-	144,216	100	24.00	100	144,216
Fri-5/21/21	-		-	144,161	100	24.00	100	144,161
Sat-5/22/21	-		-	144,206	100	24.00	100	144,206
Sun-5/23/21	-		-	144,185	100	24.00	100	144,185
Mon-5/24/21	-		-	144,226	100	24.00	100	144,226
Tue-5/25/21	-		-	144,247	100	24.00	100	144,247
Wed-5/26/21	-		-	144,218	100	24.00	100	144,218
Thu-5/27/21	-		-	144,197	100	24.00	100	144,197
Fri-5/28/21	-		-	144,225	100	24.00	100	144,225
Sat-5/29/21	-		-	144,219	100	24.00	100	144,219
Sun-5/30/21	-		-	144,170	100	24.00	100	144,170
Mon-5/31/21	-		-	144,193	100	24.00	100	144,193
<b>TOTALS</b>	<b>87</b>	<b>24</b>	<b>0.06</b>	<b>4,404,445</b>	<b>100</b>	<b>733.03</b>	<b>99</b>	<b>4,404,532</b>

TOTAL VOLUME EXTRACTED :	4,404,532 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	98.67 GPM

5/18/21 - LB-4 was shut down for maintenance.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: May-21

Core Area Well Extraction																		Daily	Daily	
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-5/1/21	-	-	-	39,408	27	24.00	-	-	-	4,428	44	1.68	-	-	-	28,899	20	24.00	51	72,735
Sun-5/2/21	-	-	-	39,366	27	24.00	-	-	-	63,267	44	24.00	-	-	-	28,892	20	24.00	91	131,525
Mon-5/3/21	-	-	-	39,405	27	24.00	-	-	-	63,724	44	24.00	-	-	-	28,961	20	24.00	92	132,090
Tue-5/4/21	-	-	-	39,412	27	24.00	-	-	-	63,907	44	24.00	-	-	-	28,853	20	24.00	92	132,172
Wed-5/5/21	-	-	-	50,951	35	24.00	-	-	-	28,258	44	10.60	-	-	-	28,816	20	24.00	75	108,025
Thu-5/6/21	-	-	-	60,966	42	24.00	-	-	-	-	-	-	-	-	-	28,862	20	24.00	62	89,828
Fri-5/7/21	-	-	-	60,939	42	24.00	-	-	-	-	-	-	-	-	-	28,830	20	24.00	62	89,769
Sat-5/8/21	-	-	-	60,696	42	24.00	-	-	-	-	-	-	-	-	-	28,968	20	24.00	62	89,664
Sun-5/9/21	-	-	-	60,640	42	24.00	-	-	-	-	-	-	-	-	-	29,159	20	24.00	62	89,799
Mon-5/10/21	-	-	-	58,238	42	23.03	-	-	-	-	-	-	-	-	-	29,134	20	24.00	61	87,372
Tue-5/11/21	-	-	-	60,655	42	24.00	-	-	-	-	-	-	-	-	-	29,044	20	24.00	62	89,699
Wed-5/12/21	-	-	-	60,633	42	24.00	-	-	-	-	-	-	-	-	-	28,762	20	24.00	62	89,395
Thu-5/13/21	-	-	-	60,651	42	24.00	-	-	-	-	-	-	-	-	-	16,736	20	14.03	54	77,387
Fri-5/14/21	-	-	-	60,666	42	24.00	-	-	-	-	-	-	-	-	-	-	-	-	42	60,666
Sat-5/15/21	-	-	-	60,616	42	24.00	-	-	-	-	-	-	-	-	-	-	-	-	42	60,616
Sun-5/16/21	-	-	-	60,607	42	24.00	-	-	-	-	-	-	-	-	-	-	-	-	42	60,607
Mon-5/17/21	100	50	0.03	58,896	41	24.00	-	0	0.02	-	-	-	48	24	0.03	-	-	-	41	59,044
Tue-5/18/21	-	-	-	31,309	40	13.02	-	-	-	-	-	-	-	-	-	-	-	-	22	31,309
Wed-5/19/21	-	-	-	57,722	40	24.00	-	-	-	-	-	-	-	-	-	-	-	-	40	57,722
Thu-5/20/21	-	-	-	57,649	40	24.00	-	-	-	-	-	-	-	-	-	-	-	-	40	57,649
Fri-5/21/21	-	-	-	56,795	40	23.62	-	-	-	-	-	-	-	-	-	-	-	-	39	56,795
Sat-5/22/21	-	-	-	57,662	40	24.00	-	-	-	-	-	-	-	-	-	-	-	-	40	57,662
Sun-5/23/21	-	-	-	57,658	40	24.00	-	-	-	-	-	-	-	-	-	-	-	-	40	57,658
Mon-5/24/21	-	-	-	52,322	40	21.75	-	-	-	-	-	-	-	-	-	23,412	20	19.32	53	75,734
Tue-5/25/21	-	-	-	57,665	40	24.00	-	-	-	-	-	-	-	-	-	29,022	20	24.00	60	86,687
Wed-5/26/21	-	-	-	57,680	40	24.00	-	-	-	-	-	-	-	-	-	28,861	20	24.00	60	86,541
Thu-5/27/21	-	-	-	57,645	40	24.00	-	-	-	-	-	-	-	-	-	28,840	20	24.00	60	86,485
Fri-5/28/21	-	-	-	57,633	40	24.00	-	-	-	-	-	-	-	-	-	28,768	20	24.00	60	86,401
Sat-5/29/21	-	-	-	57,694	40	24.00	-	-	-	-	-	-	-	-	-	28,708	20	24.00	60	86,402
Sun-5/30/21	-	-	-	57,665	40	24.00	-	-	-	-	-	-	-	-	-	28,852	20	24.00	60	86,517
Mon-5/31/21	-	-	-	57,666	40	24.00	-	-	-	-	-	-	-	-	-	29,060	20	24.00	60	86,726
<b>TOTALS</b>	<b>100</b>	<b>50</b>	<b>0.03</b>	<b>1,707,510</b>	<b>39</b>	<b>729.42</b>	<b>-</b>	<b>0</b>	<b>0.02</b>	<b>223,584</b>	<b>44</b>	<b>84.28</b>	<b>48</b>	<b>24</b>	<b>0.03</b>	<b>589,439</b>	<b>20</b>	<b>489.35</b>	<b>56</b>	<b>2,520,681</b>

TOTAL VOLUME EXTRACTED :	2,520,681 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	56.47 GPM

5/18/21 - TW-2 was shut down for maintenance.  
 5/24/21 - TW-2 was shut down briefly due to communication loss from a Comcast outage.  
 5/13/21-5/24/21 - TW-20 was shut down to control pond level.

**MARSHY AREA EXTRACTION DATA**

Month of: **May-21**

Marshy Well Extraction				Daily	Daily
Date	PW-1			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-5/1/21	1,866	1	24.00	1	1,866
Sun-5/2/21	1,844	1	24.00	1	1,844
Mon-5/3/21	1,843	1	24.00	1	1,843
Tue-5/4/21	1,844	1	24.00	1	1,844
Wed-5/5/21	1,847	1	24.00	1	1,847
Thu-5/6/21	806	1	9.65	1	806
Fri-5/7/21	-	-	-	-	-
Sat-5/8/21	-	-	-	-	-
Sun-5/9/21	-	-	-	-	-
Mon-5/10/21	-	-	-	-	-
Tue-5/11/21	-	-	-	-	-
Wed-5/12/21	-	-	-	-	-
Thu-5/13/21	-	-	-	-	-
Fri-5/14/21	-	-	-	-	-
Sat-5/15/21	-	-	-	-	-
Sun-5/16/21	-	-	-	-	-
Mon-5/17/21	-	-	-	-	-
Tue-5/18/21	-	-	-	-	-
Wed-5/19/21	2,360	3	11.82	2	2,360
Thu-5/20/21	4,939	3	24.00	3	4,939
Fri-5/21/21	3,568	3	18.08	2	3,568
Sat-5/22/21	4,578	3	24.00	3	4,578
Sun-5/23/21	4,598	3	24.00	3	4,598
Mon-5/24/21	5,486	4	23.27	4	5,486
Tue-5/25/21	6,346	5	23.03	4	6,346
Wed-5/26/21	6,322	4	24.00	4	6,322
Thu-5/27/21	6,268	4	24.00	4	6,268
Fri-5/28/21	6,350	4	24.00	4	6,350
Sat-5/29/21	6,288	4	24.00	4	6,288
Sun-5/30/21	6,198	4	24.00	4	6,198
Mon-5/31/21	6,191	4	24.00	4	6,191
<b>TOTALS</b>	<b>79,542</b>	<b>3</b>	<b>421.85</b>	<b>3</b>	<b>79,542</b>

TOTAL VOLUME EXTRACTED :	79,542 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	1.78 GPM

5/6/21-5/19/21 - PW-1 was shut down for rehabilitation.  
 5/21/21 - PW-1 was shut down for maintenance.

**SOUTHWEST AREA EXTRACTION DATA**

Month of: **May-21**

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sat-5/1/21	7,148	5	24.00	36,021	25	24.00	30	43,169
Sun-5/2/21	7,115	5	24.00	35,973	25	24.00	30	43,088
Mon-5/3/21	7,005	5	23.92	35,856	25	24.00	30	42,861
Tue-5/4/21	6,877	5	24.00	35,813	25	24.00	30	42,690
Wed-5/5/21	6,853	5	24.00	35,989	25	24.00	30	42,842
Thu-5/6/21	6,823	5	24.00	36,256	25	24.00	30	43,079
Fri-5/7/21	6,815	5	24.00	36,258	25	24.00	30	43,073
Sat-5/8/21	6,785	5	24.00	36,255	25	24.00	30	43,040
Sun-5/9/21	6,770	5	24.00	36,242	25	24.00	30	43,012
Mon-5/10/21	6,772	5	24.00	36,253	25	24.00	30	43,025
Tue-5/11/21	6,760	5	24.00	36,229	25	24.00	30	42,989
Wed-5/12/21	6,750	5	24.00	36,203	25	24.00	30	42,953
Thu-5/13/21	7,057	5	24.00	33,089	23	24.00	28	40,146
Fri-5/14/21	7,490	5	24.00	28,708	20	24.00	25	36,198
Sat-5/15/21	7,416	5	24.00	28,688	20	24.00	25	36,104
Sun-5/16/21	7,204	5	24.00	28,688	20	24.00	25	35,892
Mon-5/17/21	7,135	5	24.00	24,340	17	24.00	22	31,475
Tue-5/18/21	3,923	5	13.02	11,595	15	13.02	11	15,518
Wed-5/19/21	4,906	5	16.40	14,641	15	16.40	14	19,547
Thu-5/20/21	5,209	5	16.53	14,818	15	16.53	14	20,027
Fri-5/21/21	7,536	5	24.00	21,484	15	24.00	20	29,020
Sat-5/22/21	7,420	5	24.00	21,478	15	24.00	20	28,898
Sun-5/23/21	7,238	5	24.00	21,478	15	24.00	20	28,716
Mon-5/24/21	7,080	5	24.00	27,155	19	24.00	24	34,235
Tue-5/25/21	7,045	5	24.00	28,704	20	24.00	25	35,749
Wed-5/26/21	6,874	5	24.00	28,722	20	24.00	25	35,596
Thu-5/27/21	6,778	5	24.00	28,709	20	24.00	25	35,487
Fri-5/28/21	6,823	5	24.00	28,698	20	24.00	25	35,521
Sat-5/29/21	6,785	5	24.00	28,724	20	24.00	25	35,509
Sun-5/30/21	6,337	4	23.73	28,780	20	24.00	24	35,117
Mon-5/31/21	6,298	4	23.85	28,729	20	24.00	24	35,027
<b>TOTALS</b>	<b>209,027</b>	<b>5</b>	<b>717.45</b>	<b>910,576</b>	<b>21</b>	<b>717.95</b>	<b>25</b>	<b>1,119,603</b>

TOTAL VOLUME EXTRACTED :	1,119,603 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	25.08 GPM

5/18/21-5/20/21 - TW-22 and TW-28 were shut down due to communication loss.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: May-21

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.		
Sat-5/1/21	-	-	-	-	-	-	220,693	153	24.00	-	-	-	144,166	100	24.00	253	364,859
Sun-5/2/21	-	-	-	-	-	-	234,703	163	24.00	-	-	-	144,066	100	24.00	263	378,769
Mon-5/3/21	-	-	-	-	-	-	241,760	168	24.00	-	-	-	144,025	100	24.00	268	385,785
Tue-5/4/21	-	-	-	-	-	-	241,725	168	24.00	-	-	-	144,178	100	24.00	268	385,903
Wed-5/5/21	-	-	-	-	-	-	180,706	131	23.05	-	-	-	136,635	100	22.73	220	317,341
Thu-5/6/21	-	-	-	-	-	-	146,917	102	24.00	-	-	-	144,238	100	24.00	202	291,155
Fri-5/7/21	-	-	-	-	-	-	147,448	102	24.00	-	-	-	144,147	100	24.00	202	291,595
Sat-5/8/21	-	-	-	-	-	-	147,684	103	24.00	-	-	-	144,049	100	24.00	203	291,733
Sun-5/9/21	-	-	-	-	-	-	147,664	103	24.00	-	-	-	144,034	100	24.00	203	291,698
Mon-5/10/21	-	-	-	-	-	-	142,572	102	23.18	-	-	-	139,018	100	23.11	196	281,590
Tue-5/11/21	-	-	-	-	-	-	147,729	103	24.00	-	-	-	144,238	100	24.00	203	291,967
Wed-5/12/21	-	-	-	-	-	-	147,745	103	24.00	-	-	-	144,298	100	24.00	203	292,043
Thu-5/13/21	-	-	-	-	-	-	147,784	103	24.00	-	-	-	144,226	100	24.00	203	292,010
Fri-5/14/21	-	-	-	-	-	-	143,655	103	23.35	-	-	-	144,144	100	24.00	200	287,799
Sat-5/15/21	-	-	-	-	-	-	147,811	103	24.00	-	-	-	144,046	100	24.00	203	291,857
Sun-5/16/21	-	-	-	-	-	-	147,805	103	24.00	-	-	-	143,962	100	24.00	203	291,767
Mon-5/17/21	-	-	-	0	0.02	-	147,878	103	24.00	-	-	-	143,843	100	24.00	203	291,721
Tue-5/18/21	-	-	-	-	-	-	80,113	103	13.00	-	-	-	77,749	100	12.91	110	157,862
Wed-5/19/21	-	-	-	-	-	-	147,824	103	24.00	-	-	-	144,127	100	24.00	203	291,951
Thu-5/20/21	-	-	-	-	-	-	147,926	103	24.00	-	-	-	143,896	100	24.00	203	291,822
Fri-5/21/21	-	-	-	-	-	-	146,192	103	23.77	-	-	-	141,662	100	23.60	200	287,854
Sat-5/22/21	-	-	-	-	-	-	147,865	103	24.00	-	-	-	144,107	100	24.00	203	291,972
Sun-5/23/21	-	-	-	-	-	-	147,805	103	24.00	-	-	-	143,952	100	24.00	203	291,757
Mon-5/24/21	-	-	-	-	-	-	135,546	102	22.08	-	-	-	130,862	100	21.76	185	266,408
Tue-5/25/21	-	-	-	-	-	-	147,774	103	24.00	-	-	-	144,152	100	24.00	203	291,926
Wed-5/26/21	-	-	-	-	-	-	147,685	103	24.00	-	-	-	144,042	100	24.00	203	291,727
Thu-5/27/21	-	-	-	-	-	-	147,671	103	24.00	-	-	-	144,227	100	24.00	203	291,898
Fri-5/28/21	-	-	-	-	-	-	147,554	102	24.00	-	-	-	144,284	100	24.00	203	291,838
Sat-5/29/21	-	-	-	-	-	-	147,661	103	24.00	-	-	-	143,847	100	23.95	202	291,508
Sun-5/30/21	-	-	-	-	-	-	147,710	103	24.00	-	-	-	136,397	100	22.63	197	284,107
Mon-5/31/21	-	-	-	-	-	-	147,694	103	24.00	-	-	-	144,275	100	24.00	203	291,969
<b>TOTALS</b>	-	-	-	-	0	0.02	<b>4,369,299</b>	<b>111</b>	<b>728.43</b>	-	-	-	<b>4,364,892</b>	<b>100</b>	<b>726.69</b>	<b>207</b>	<b>9,234,191</b>

TOTAL VOLUME EXTRACTED :	9,234,191 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	297.87 GPM

5/1/21-5/31/21 - TW-19 was shut down due to permanent damage. The well is in the process of being replaced.  
 5/18/21 - TW-18 and TW-23 were shut down for maintenance.  
 5/24/21 - TW-18 and TW-23 were shut down briefly due to communication loss from a Comcast outage.



**Little Lake Area System**

MW-53i	
Date	1,4-Dioxane ug/L
02/01/21	36
03/04/21	50
04/07/21	35
05/10/21	31

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
02/09/21	51
03/04/21	46
04/07/21	43
05/10/21	45

**TABLE #8**

**INDIVIDUAL PURGE WELL CONCENTRATIONS**

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-05-03-21-13:45-1	05/03/21	150
TW-1-05-17-21-09:55-1	05/17/21	37
TW-10-05-03-21-13:55-1	05/03/21	830
TW-14-05-17-21-10:05-1	05/17/21	15
TW-20-05-03-21-13:50-1	05/03/21	750
TW-20-05-24-21-14:40-1	05/24/21	860
TW-3-05-17-21-10:00-1	05/17/21	16
TW-6-05-04-21-10:32-1	05/04/21	88
LB-1-05-17-21-09:00-1	05/17/21	480
LB-4-05-03-21-13:20-1	05/03/21	520
TW-21-05-06-21-11:30-1	05/06/21	310
TW-5-05-17-21-09:45-1	05/17/21	940
TW-9-05-17-21-09:50-1	05/17/21	460
TW-11-05-17-21-09:40-1	05/17/21	230
TW-17-05-17-21-10:10-1	05/17/21	91
TW-18-05-03-21-13:35-1	05/03/21	260
TW-23-05-03-21-13:25-1	05/03/21	390
PW-1-05-03-21-13:40-1	05/03/21	550
PW-1-05-19-21-15:00-1	05/19/21	490
TW-22-05-03-21-14:00-1	05/03/21	550
TW-28-05-03-21-14:05-1	05/03/21	810

**RED POND DATA**

Month of: **May-21**

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Sat-5/1/21	04:00:00.000	(1)		3.1	-	24.00	435
Sun-5/2/21	04:00:00.000	(1)		3.1	-	24.00	486
Mon-5/3/21	04:00:00.000		Y	3.2	-	24.00	491
Tue-5/4/21	04:00:00.000		Y	3.3	-	24.00	491
Wed-5/5/21	04:00:00.000		Y	3.8	-	24.00	483
Thu-5/6/21	04:00:00.000		Y	4.6	-	24.00	495
Fri-5/7/21	04:00:00.000		Y	4.8	-	24.00	495
Sat-5/8/21	04:00:00.000	(1)		4.9	-	24.00	495
Sun-5/9/21	04:00:00.000	(1)		4.9	-	24.00	495
Mon-5/10/21	04:00:00.000		Y	5.2	-	24.00	483
Tue-5/11/21	04:00:00.000		Y	5.4	-	24.00	495
Wed-5/12/21	04:00:00.000		Y	5.7	-	24.00	495
Thu-5/13/21	04:00:00.000		Y	5.7	-	24.00	485
Fri-5/14/21	04:00:00.000		Y	5.4	-	24.00	465
Sat-5/15/21	04:00:00.000	(1)		5.3	-	24.00	470
Sun-5/16/21	04:00:00.000	(1)		5.1	-	24.00	470
Mon-5/17/21	04:00:00.000		Y	4.9	-	24.00	466
Tue-5/18/21	04:00:00.000		Y	4.8	-	13.10	461
Wed-5/19/21	04:00:00.000		Y	4.5	-	24.00	458
Thu-5/20/21	04:00:00.000		Y	4.1	-	24.00	460
Fri-5/21/21	04:00:00.000		Y	3.9	-	24.00	461
Sat-5/22/21	04:00:00.000	(1)		3.6	-	24.00	466
Sun-5/23/21	04:45:00.000	(1)		3.0	-	24.00	466
Mon-5/24/21	04:00:00.000		Y	3.1	-	24.00	457
Tue-5/25/21	04:00:00.000		Y	3.1	-	24.00	493
Wed-5/26/21	04:00:00.000		Y	3.4	-	24.00	492
Thu-5/27/21	04:00:00.000		Y	3.5	-	24.00	492
Fri-5/28/21	04:00:00.000		Y	3.7	-	24.00	492
Sat-5/29/21	04:00:00.000	(1)		3.8	-	24.00	492
Sun-5/30/21	04:00:00.000	(1)		3.9	-	24.00	486
Mon-5/31/21	04:00:00.000		Y	3.9	-	24.00	492
<b>TOTALS</b>			-	-	-	<b>733</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 #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-05-03-21-07:55-1	5/3/2021	420
Red Pond-05-10-21-07:40-1	5/10/2021	420
Red Pond-05-17-21-10:55-1	5/17/2021	360
Red Pond-05-24-21-07:55-1	5/24/2021	370

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

OZONE OPERATION REPORT

Month of: May-21

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-5/1/21	14:00:00.00	(1)	240	24.00	0	0.00	237	24.00	0	0.00
Sun-5/2/21	14:00:00.00	(1)	240	23.93	0	0.00	240	24.00	0	0.00
Mon-5/3/21	14:00:00.00		241	23.90	0	0.00	241	24.00	0	0.00
Tue-5/4/21	14:00:00.00		240	23.95	0	0.00	238	24.00	0	0.00
Wed-5/5/21	14:00:00.00		241	22.25	0	0.00	239	24.00	0	0.00
Thu-5/6/21	14:00:00.00		240	20.53	0	0.00	240	23.48	0	0.00
Fri-5/7/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Sat-5/8/21	14:00:00.00	(1)	241	24.00	0	0.00	242	24.00	0	0.00
Sun-5/9/21	14:00:00.00	(1)	241	24.00	0	0.00	242	24.00	0	0.00
Mon-5/10/21	14:00:00.00		240	24.00	0	0.00	238	24.00	0	0.00
Tue-5/11/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-5/12/21	14:00:00.00		240	23.75	0	0.00	236	23.80	0	0.00
Thu-5/13/21	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Fri-5/14/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-5/15/21	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-5/16/21	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Mon-5/17/21	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Tue-5/18/21	14:00:00.00		241	12.78	0	0.00	240	12.82	0	0.00
Wed-5/19/21	14:00:00.00		241	24.00	0	0.00	236	24.00	0	0.00
Thu-5/20/21	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Fri-5/21/21	14:00:00.00		241	24.00	0	0.00	238	24.00	0	0.00
Sat-5/22/21	14:00:00.00	(1)	241	24.00	0	0.00	237	24.00	0	0.00
Sun-5/23/21	14:45:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-5/24/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-5/25/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-5/26/21	14:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Thu-5/27/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-5/28/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Sat-5/29/21	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-5/30/21	14:00:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-5/31/21	14:00:00.00		241	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.

5/5/21-5/6/21 - Treatment System 1A was shut down for maintenance.

5/18/21 - Treatment was shut down due to communication loss.

GREEN POND / DISCHARGE DATA

Month of: May-21

			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	Pond Discharge GPM	Pond Discharge Gallons	Bypass Discharge GPM	Bypass Discharge Gallons	Bypass Discharge Hours	Recirc Thru UV to Pond GPM	Recirc Thru UV to Pond Gallons	Recirc Thru UV to Pond Hours	Recirc Thru UV to Disch GPM	Recirc Thru UV to Disch Gallons	Recirc Thru UV to Disch Hours		
Sat-5/1/21	14:00:00.00	(1)		-	-					497	716,092	24.00	-	-	-	-	-	-		
Sun-5/2/21	14:00:00.00	(1)		-	-					496	714,785	24.00	-	-	-	-	-	-		
Mon-5/3/21	14:00:00.00		Y	-	-					494	711,268	24.00	-	-	-	-	-	-		
Tue-5/4/21	14:00:00.00		Y	-	-					495	713,161	24.00	-	-	-	-	-	-		
Wed-5/5/21	14:00:00.00		Y	-	-					477	687,490	24.00	-	-	-	-	-	-		
Thu-5/6/21	14:00:00.00		Y	-	-					462	648,385	23.40	-	-	-	-	-	-		
Fri-5/7/21	14:00:00.00		Y	-	-					497	716,125	24.00	-	-	-	-	-	-		
Sat-5/8/21	14:00:00.00	(1)		-	-					497	716,064	24.00	-	-	-	-	-	-		
Sun-5/9/21	14:00:00.00	(1)		-	-					497	716,028	24.00	-	-	-	-	-	-		
Mon-5/10/21	14:00:00.00		Y	-	-					497	716,016	24.00	-	-	-	-	-	-		
Tue-5/11/21	14:00:00.00		Y	-	-					497	716,021	24.00	-	-	-	-	-	-		
Wed-5/12/21	14:00:00.00		Y	-	-					496	707,212	23.75	-	-	-	-	-	-		
Thu-5/13/21	14:00:00.00		Y	-	-					498	716,464	24.00	-	-	-	-	-	-		
Fri-5/14/21	14:00:00.00		Y	-	-					498	716,583	24.00	-	-	-	-	-	-		
Sat-5/15/21	14:00:00.00	(1)		-	-					498	716,690	24.00	-	-	-	-	-	-		
Sun-5/16/21	14:00:00.00	(1)		-	-					498	716,704	24.00	-	-	-	-	-	-		
Mon-5/17/21	14:00:00.00		Y	-	-					498	716,717	24.00	-	-	-	-	-	-		
Tue-5/18/21	14:00:00.00		Y	-	-					495	377,827	12.73	-	-	-	-	-	-		
Wed-5/19/21	14:00:00.00		Y	-	-					498	716,530	24.00	-	-	-	-	-	-		
Thu-5/20/21	14:00:00.00		Y	-	-					498	716,556	24.00	-	-	-	-	-	-		
Fri-5/21/21	14:00:00.00		Y	-	-					498	717,004	24.00	-	-	-	-	-	-		
Sat-5/22/21	14:00:00.00	(1)		-	-					498	717,307	24.00	-	-	-	-	-	-		
Sun-5/23/21	14:45:00.00	(1)		-	-					498	717,441	24.00	-	-	-	-	-	-		
Mon-5/24/21	14:00:00.00		Y	-	-					498	716,953	24.00	-	-	-	-	-	-		
Tue-5/25/21	14:00:00.00		Y	-	-					498	716,643	24.00	-	-	-	-	-	-		
Wed-5/26/21	14:00:00.00		Y	-	-					498	716,878	24.00	-	-	-	-	-	-		
Thu-5/27/21	14:00:00.00		Y	-	-					498	716,775	24.00	-	-	-	-	-	-		
Fri-5/28/21	14:00:00.00		Y	-	-					497	716,377	24.00	-	-	-	-	-	-		
Sat-5/29/21	14:00:00.00	(1)		-	-					497	716,314	24.00	-	-	-	-	-	-		
Sun-5/30/21	14:00:00.00	(1)		-	-					498	716,555	24.00	-	-	-	-	-	-		
Mon-5/31/21	14:00:00.00		Y	-	-					498	716,951	24.00	-	-	-	-	-	-		
<b>TOTALS</b>											21,757,916	732								

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)	(Annually)	(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
5/1/2021	0.716	*G	*G										
5/2/2021	0.715			7.1								8.6	
5/3/2021	0.711			7.3	0.420	<50	<0.16	yes	yes	7.2	7.2	9.2	40
5/4/2021	0.713			6.7		<50	<0.16	no	no	7.1	7.1	9.2	
5/5/2021	0.687			6.8		<50	<0.16	no	yes	7.1	7.1	9.6	30
5/6/2021	0.648			5.7		<50	<0.16	no	no	7.1	7.1	12	
5/7/2021	0.716					<50	<0.16	no	no	7.1	7.1		
5/8/2021	0.716												
5/9/2021	0.716			5.7								13	
5/10/2021	0.716			5.6	0.420	<50	<0.16	yes	yes	7.1	7.1	10	34
5/11/2021	0.716			6.1		<50	<0.16	no	no	6.9	6.9	7.3	
5/12/2021	0.707			6.4		<50	<0.16	no	yes	6.9	6.9	8.3	32
5/13/2021	0.716			7.1		<50	<0.16	no	no	7.4	7.4	9.6	
5/14/2021	0.717					<50	<0.16	no	no	7.2	7.2		
5/15/2021	0.717												
5/16/2021	0.717			6.6								9.4	
5/17/2021	0.717			6.4	0.360	<50	<0.16	yes	yes	7.0	7.0	8.0	40
5/18/2021	0.378			6.0		<50	<0.16	no	no	6.7	6.7	11	
5/19/2021	0.717			6.7		<50	<0.16	no	yes	6.8	6.8	9.4	42
5/20/2021	0.717			6.7		<50	<0.16	no	no	6.9	6.9	9.3	
5/21/2021	0.717					<50	<0.16	no	no	6.8	6.8		
5/22/2021	0.717												
5/23/2021	0.717			6.5								8.4	
5/24/2021	0.717			6.7	0.370	<50	<0.16	yes	yes	6.6	6.6	7.9	42
5/25/2021	0.717			6.3		<50	<0.16	no	no	6.7	6.7	7.3	
5/26/2021	0.717			7.9		<50	<0.16	no	yes	6.9	6.9	5.0	48
5/27/2021	0.717			8.2		<50	<0.16	no	no	6.7	6.7	5.9	
5/28/2021	0.716					<50	<0.16	no	no	6.9	6.9		
5/29/2021	0.716												
5/30/2021	0.717			7.6								9.1	
5/31/2021	0.717			6.9								8.1	
Discharged	21.758												
Monthly Avg				6.7								8.9	