



FLEIS & VANDENBRINK

DESIGN. BUILD. OPERATE.

August 14, 2020

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

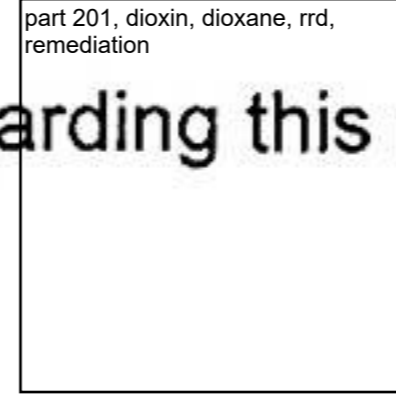
**Re: Monitoring Report # 279
July 1 – July 31, 2020**

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 July 1 through July 31, 2020.

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

Sincerely,



FLEIS & VANDENBRINK

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: **Jul-20**

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	HW-S	GPM	Run Hrs.	TW-9	GPM	Run Hrs.	TW-5	GPM	Run Hrs.	TW-21	GPM	Run Hrs.	GPM	Gallons
	Gallons			Gallons			Gallons			Gallons				
Wed-7/1/20	-	-	-	-	-	-	-	-	-	72,323	50	24.00	50	72,323
Thu-7/2/20	-	-	-	-	-	-	-	-	-	72,332	50	24.00	50	72,332
Fri-7/3/20	-	-	-	-	-	-	-	-	-	72,343	50	24.00	50	72,343
Sat-7/4/20	-	-	-	-	-	-	-	-	-	72,343	50	24.00	50	72,343
Sun-7/5/20	-	-	-	-	-	-	-	-	-	72,322	50	24.00	50	72,322
Mon-7/6/20	-	-	-	-	-	-	-	-	-	72,354	50	24.00	50	72,354
Tue-7/7/20	-	-	-	-	-	-	-	-	-	72,347	50	24.00	50	72,347
Wed-7/8/20	-	-	-	-	-	-	-	-	-	71,656	50	24.00	50	71,656
Thu-7/9/20	-	-	-	-	-	-	-	-	-	71,431	50	24.00	50	71,431
Fri-7/10/20	-	-	-	-	-	-	-	-	-	72,276	50	24.00	50	72,276
Sat-7/11/20	-	-	-	-	-	-	-	-	-	72,297	50	24.00	50	72,297
Sun-7/12/20	-	-	-	-	-	-	-	-	-	72,270	50	24.00	50	72,270
Mon-7/13/20	-	-	-	-	-	-	-	-	-	72,281	50	24.00	50	72,281
Tue-7/14/20	-	-	-	-	-	-	-	-	-	72,295	50	24.00	50	72,295
Wed-7/15/20	-	-	-	-	-	-	-	-	-	72,302	50	24.00	50	72,302
Thu-7/16/20	-	-	-	-	-	-	-	-	-	72,265	50	24.00	50	72,265
Fri-7/17/20	-	-	-	-	-	-	-	-	-	72,314	50	24.00	50	72,314
Sat-7/18/20	-	-	-	-	-	-	-	-	-	72,312	50	24.00	50	72,312
Sun-7/19/20	-	-	-	-	-	-	-	-	-	72,270	50	24.00	50	72,270
Mon-7/20/20	-	-	-	-	-	-	-	-	-	72,285	50	24.00	50	72,285
Tue-7/21/20	-	-	-	-	-	-	-	-	-	72,268	50	24.00	50	72,268
Wed-7/22/20	-	-	-	-	-	-	-	-	-	72,273	50	24.00	50	72,273
Thu-7/23/20	-	-	-	-	-	-	-	-	-	72,265	50	24.00	50	72,265
Fri-7/24/20	-	-	-	-	-	-	-	-	-	72,237	50	24.00	50	72,237
Sat-7/25/20	-	-	-	-	-	-	-	-	-	72,256	50	24.00	50	72,256
Sun-7/26/20	-	-	-	-	-	-	-	-	-	72,270	50	24.00	50	72,270
Mon-7/27/20	-	-	-	-	-	-	-	-	-	72,296	50	24.00	50	72,296
Tue-7/28/20	-	-	-	-	-	-	-	-	-	72,279	50	24.00	50	72,279
Wed-7/29/20	-	-	-	-	-	-	-	-	-	72,268	50	24.00	50	72,268
Thu-7/30/20	-	-	-	-	-	-	-	-	-	70,599	51	23.00	49	70,599
Fri-7/31/20	-	-	-	-	-	-	-	-	-	72,258	50	24.00	50	72,258.00
TOTALS	-	-	-	-	-	-	-	-	-	2,237,887	50	743.00	50	2,237,887

TOTAL VOLUME EXTRACTED :	2,237,887 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	50.13 GPM

7/30/20 - TW-21 was shut down briefly due to storms in the area.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Jul-20

Date	LB-1			LB-4			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-7/1/20	-	-	-	144,192	100	24.00	100	144,192
Thu-7/2/20	-	-	-	144,206	100	24.00	100	144,206
Fri-7/3/20	-	-	-	144,182	100	24.00	100	144,182
Sat-7/4/20	-	-	-	144,169	100	24.00	100	144,169
Sun-7/5/20	-	-	-	144,150	100	24.00	100	144,150
Mon-7/6/20	-	-	-	144,173	100	24.00	100	144,173
Tue-7/7/20	-	-	-	144,164	100	24.00	100	144,164
Wed-7/8/20	-	-	-	144,174	100	24.00	100	144,174
Thu-7/9/20	-	-	-	144,150	100	24.00	100	144,150
Fri-7/10/20	-	-	-	144,173	100	24.00	100	144,173
Sat-7/11/20	-	-	-	144,185	100	24.00	100	144,185
Sun-7/12/20	-	-	-	144,156	100	24.00	100	144,156
Mon-7/13/20	-	-	-	144,167	100	24.00	100	144,167
Tue-7/14/20	-	-	-	144,185	100	24.00	100	144,185
Wed-7/15/20	-	-	-	144,198	100	24.00	100	144,198
Thu-7/16/20	-	-	-	144,208	100	24.00	100	144,208
Fri-7/17/20	-	-	-	144,172	100	24.00	100	144,172
Sat-7/18/20	-	-	-	144,192	100	24.00	100	144,192
Sun-7/19/20	-	-	-	130,281	100	21.73	90	130,281
Mon-7/20/20	-	-	-	144,155	100	24.00	100	144,155
Tue-7/21/20	-	-	-	144,181	100	24.00	100	144,181
Wed-7/22/20	-	-	-	144,181	100	24.00	100	144,181
Thu-7/23/20	-	-	-	144,234	100	24.00	100	144,234
Fri-7/24/20	-	-	-	144,210	100	24.00	100	144,210
Sat-7/25/20	-	-	-	144,176	100	24.00	100	144,176
Sun-7/26/20	-	-	-	144,164	100	24.00	100	144,164
Mon-7/27/20	-	-	-	144,187	100	24.00	100	144,187
Tue-7/28/20	-	-	-	144,243	100	24.00	100	144,243
Wed-7/29/20	-	-	-	144,183	100	24.00	100	144,183
Thu-7/30/20	-	-	-	144,182	100	24.00	100	144,182
Fri-7/31/20	-	-	-	144,187	100	24.00	100	144,187.00
TOTALS	-	-	-	4,455,760	100	741.73	100	4,455,760

TOTAL VOLUME EXTRACTED :	4,455,760 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	99.82 GPM

7/19/20 - LB-4 was shut down briefly due to storms in the area.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: Jul-20

Core Area Well Extraction																	Daily	Daily		
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			Flow GPM	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.		
Wed-7/1/20	-	-	-	31,614	22	23.72	-	-	-	-	-	-	-	-	-	43,485	30	24.00	52	75,099
Thu-7/2/20	-	-	-	31,906	22	24.00	-	-	-	-	-	-	-	-	-	43,443	30	24.00	52	75,349
Fri-7/3/20	-	-	-	32,087	22	24.00	-	-	-	-	-	-	-	-	-	43,375	30	24.00	52	75,462
Sat-7/4/20	-	-	-	32,116	22	24.00	-	-	-	-	-	-	-	-	-	43,303	30	24.00	52	75,419
Sun-7/5/20	-	-	-	32,122	22	24.00	-	-	-	-	-	-	-	-	-	43,209	30	24.00	52	75,331
Mon-7/6/20	-	-	-	32,158	22	24.00	-	-	-	-	-	-	-	-	-	43,328	30	24.00	52	75,486
Tue-7/7/20	-	-	-	32,236	22	24.00	-	-	-	-	-	-	-	-	-	43,302	30	24.00	52	75,538
Wed-7/8/20	-	-	-	32,056	23	23.72	-	-	-	-	-	-	-	-	-	43,097	30	24.00	52	75,153
Thu-7/9/20	-	-	-	32,127	23	23.65	-	-	-	-	-	-	-	-	-	42,960	30	24.00	52	75,087
Fri-7/10/20	-	-	-	32,635	23	24.00	-	-	-	-	-	-	-	-	-	43,376	30	24.00	53	76,011
Sat-7/11/20	-	-	-	32,657	23	24.00	-	-	-	-	-	-	-	-	-	43,149	30	24.00	53	75,806
Sun-7/12/20	-	-	-	32,540	23	24.00	-	-	-	-	-	-	-	-	-	43,487	30	23.98	53	76,027
Mon-7/13/20	-	-	-	32,574	23	24.00	-	-	-	-	-	-	-	-	-	43,258	30	24.00	53	75,832
Tue-7/14/20	-	-	-	32,557	23	24.00	-	-	-	-	-	-	-	-	-	43,127	30	24.00	53	75,684
Wed-7/15/20	-	-	-	32,540	23	24.00	-	-	-	-	-	-	-	-	-	43,030	30	24.00	52	75,570
Thu-7/16/20	-	-	-	32,109	22	24.00	-	-	-	-	-	-	-	-	-	42,954	30	24.00	52	75,063
Fri-7/17/20	-	-	-	32,231	22	24.00	-	-	-	-	-	-	-	-	-	42,950	30	24.00	52	75,181
Sat-7/18/20	-	-	-	32,197	22	24.00	-	-	-	-	-	-	-	-	-	43,318	30	24.00	52	75,515
Sun-7/19/20	-	-	-	32,141	22	24.00	-	-	-	-	-	-	-	-	-	43,142	30	24.00	52	75,283
Mon-7/20/20	-	-	-	32,100	22	24.00	-	-	-	-	-	-	-	-	-	43,018	30	24.00	52	75,118
Tue-7/21/20	-	-	-	32,080	22	24.00	-	-	-	-	-	-	-	-	-	42,968	30	24.00	52	75,048
Wed-7/22/20	-	-	-	31,951	22	24.00	-	-	-	-	-	-	-	-	-	42,924	30	24.00	52	74,875
Thu-7/23/20	-	-	-	32,044	22	24.00	-	-	-	-	-	-	-	-	-	43,224	30	24.00	52	75,268
Fri-7/24/20	-	-	-	31,584	22	24.00	-	-	-	-	-	-	-	-	-	43,174	30	24.00	52	74,758
Sat-7/25/20	-	-	-	31,555	22	24.00	-	-	-	-	-	-	-	-	-	43,203	30	24.00	52	74,758
Sun-7/26/20	-	-	-	31,766	22	24.00	-	-	-	-	-	-	-	-	-	43,061	30	24.00	52	74,827
Mon-7/27/20	-	-	-	32,104	22	24.00	-	-	-	-	-	-	-	-	-	42,969	30	24.00	52	75,073
Tue-7/28/20	-	-	-	32,339	22	24.00	-	-	-	-	-	-	-	-	-	43,008	30	24.00	52	75,347
Wed-7/29/20	-	-	-	32,141	22	24.00	-	-	-	-	-	-	-	-	-	43,303	30	24.00	52	75,444
Thu-7/30/20	-	-	-	32,013	23	23.30	-	-	-	-	-	-	-	-	-	43,291	30	24.00	52	75,304
Fri-7/31/20	-	-	-	33,169	23	24.00	-	-	-	-	-	-	-	-	-	43,240	30	24.00	53	76,409
TOTALS	-	-	-	997,449	22	742.38	-	-	-	-	-	-	-	-	-	1,338,676	30	743.98	52	2,336,125

TOTAL VOLUME EXTRACTED :	2,336,125 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	52.33 GPM

MARSHY AREA EXTRACTION DATA

Month of: **Jul-20**

Marshy Well Extraction				Daily	Daily
Date	PW-1 Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Wed-7/1/20	1,994	1	24.00	1	1,994
Thu-7/2/20	1,997	1	24.00	1	1,997
Fri-7/3/20	1,987	1	24.00	1	1,987
Sat-7/4/20	1,944	1	24.00	1	1,944
Sun-7/5/20	1,935	1	24.00	1	1,935
Mon-7/6/20	1,974	1	24.00	1	1,974
Tue-7/7/20	1,929	1	24.00	1	1,929
Wed-7/8/20	1,883	1	24.00	1	1,883
Thu-7/9/20	1,880	1	24.00	1	1,880
Fri-7/10/20	1,875	1	24.00	1	1,875
Sat-7/11/20	1,869	1	24.00	1	1,869
Sun-7/12/20	1,861	1	24.00	1	1,861
Mon-7/13/20	1,837	1	24.00	1	1,837
Tue-7/14/20	1,817	1	24.00	1	1,817
Wed-7/15/20	1,807	1	24.00	1	1,807
Thu-7/16/20	1,805	1	24.00	1	1,805
Fri-7/17/20	1,804	1	24.00	1	1,804
Sat-7/18/20	1,799	1	24.00	1	1,799
Sun-7/19/20	1,804	1	24.00	1	1,804
Mon-7/20/20	1,803	1	24.00	1	1,803
Tue-7/21/20	1,801	1	24.00	1	1,801
Wed-7/22/20	1,800	1	24.00	1	1,800
Thu-7/23/20	1,807	1	24.00	1	1,807
Fri-7/24/20	1,797	1	24.00	1	1,797
Sat-7/25/20	1,791	1	24.00	1	1,791
Sun-7/26/20	1,789	1	24.00	1	1,789
Mon-7/27/20	1,791	1	24.00	1	1,791
Tue-7/28/20	1,834	1	24.00	1	1,834
Wed-7/29/20	1,787	1	24.00	1	1,787
Thu-7/30/20	1,783	1	24.00	1	1,783
Fri-7/31/20	1,783	1	24.00	1	1,783
TOTALS	57,367	1	744.00	1	57,367

TOTAL VOLUME EXTRACTED :	57,367 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	1.29 GPM

SOUTHWEST AREA EXTRACTION DATA

Month of: Jul-20

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-7/1/20	1,594	1	24.00	35,915	25	24.00	26	37,509
Thu-7/2/20	1,609	1	24.00	35,910	25	24.00	26	37,519
Fri-7/3/20	1,608	1	24.00	35,932	25	24.00	26	37,540
Sat-7/4/20	1,604	1	24.00	35,918	25	24.00	26	37,522
Sun-7/5/20	1,596	1	24.00	35,896	25	24.00	26	37,492
Mon-7/6/20	1,589	1	24.00	35,892	25	24.00	26	37,481
Tue-7/7/20	1,575	1	24.00	35,897	25	24.00	26	37,472
Wed-7/8/20	1,608	1	23.92	36,006	25	23.98	26	37,614
Thu-7/9/20	1,715	1	23.92	35,905	25	24.00	26	37,620
Fri-7/10/20	1,547	1	24.00	35,953	25	24.00	26	37,500
Sat-7/11/20	1,429	<1	24.00	35,944	25	24.00	26	37,373
Sun-7/12/20	1,409	<1	24.00	35,945	25	24.00	26	37,354
Mon-7/13/20	1,449	1	23.98	36,065	25	24.00	26	37,514
Tue-7/14/20	1,515	1	24.00	36,303	25	24.00	26	37,818
Wed-7/15/20	1,497	1	24.00	36,167	25	24.00	26	37,664
Thu-7/16/20	1,458	1	24.00	36,093	25	24.00	26	37,551
Fri-7/17/20	1,486	1	24.00	36,171	25	24.00	26	37,657
Sat-7/18/20	1,480	1	24.00	36,177	25	24.00	26	37,657
Sun-7/19/20	1,442	1	24.00	36,166	25	24.00	26	37,608
Mon-7/20/20	1,421	<1	24.00	36,154	25	24.00	26	37,575
Tue-7/21/20	1,426	<1	24.00	36,140	25	24.00	26	37,566
Wed-7/22/20	1,408	<1	24.00	36,147	25	24.00	26	37,555
Thu-7/23/20	1,404	<1	24.00	36,146	25	24.00	26	37,550
Fri-7/24/20	1,414	<1	24.00	36,152	25	24.00	26	37,566
Sat-7/25/20	1,409	<1	24.00	36,139	25	24.00	26	37,548
Sun-7/26/20	1,396	<1	24.00	36,129	25	24.00	26	37,525
Mon-7/27/20	1,420	<1	23.98	36,143	25	23.98	26	37,563
Tue-7/28/20	1,295	<1	24.00	36,149	25	24.00	26	37,444
Wed-7/29/20	1,284	<1	24.00	36,135	25	24.00	26	37,419
Thu-7/30/20	1,567	1	23.88	35,942	25	23.98	26	37,509
Fri-7/31/20	1,382	<1	24.00	35,911	25	24.00	26	37,293
TOTALS	46,036	1	743.68	1,117,542	25	743.95	26	1,163,578

TOTAL VOLUME EXTRACTED :	1,163,578 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	26.07 GPM

TABLE #6
UNIT "E" EXTRACTION DATA

Month of: Jul-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.		
Wed-7/1/20	-	-	-	-	-	-	221,546	154	24.00	57,404	40	24.00	86,378	60	24.00	254	365,328
Thu-7/2/20	-	-	-	-	-	-	221,319	154	24.00	57,432	40	24.00	86,462	60	24.00	254	365,213
Fri-7/3/20	-	-	-	-	-	-	220,994	153	24.00	57,426	40	24.00	86,392	60	24.00	253	364,812
Sat-7/4/20	-	-	-	-	-	-	220,810	153	24.00	57,415	40	24.00	86,393	60	24.00	253	364,618
Sun-7/5/20	-	-	-	-	-	-	220,561	153	24.00	57,406	40	24.00	86,353	60	24.00	253	364,320
Mon-7/6/20	-	-	-	-	-	-	220,477	153	24.00	57,424	40	24.00	86,373	60	24.00	253	364,274
Tue-7/7/20	-	-	-	-	-	-	220,218	153	24.00	57,220	40	23.88	85,868	60	23.88	252	363,306
Wed-7/8/20	-	-	-	-	-	-	218,111	153	23.80	56,240	40	23.46	84,438	60	23.46	249	358,789
Thu-7/9/20	-	-	-	-	-	-	217,350	153	23.73	56,277	40	23.48	84,483	60	23.48	249	358,110
Fri-7/10/20	-	-	-	-	-	-	219,758	153	24.00	57,611	40	24.00	86,367	60	24.00	253	363,736
Sat-7/11/20	-	-	-	-	-	-	219,558	152	24.00	57,599	40	24.00	86,336	60	24.00	252	363,493
Sun-7/12/20	-	-	-	-	-	-	219,291	152	23.98	57,600	40	24.00	86,386	60	24.00	252	363,277
Mon-7/13/20	-	-	-	-	-	-	219,341	152	24.00	56,977	40	23.70	83,965	60	23.33	250	360,283
Tue-7/14/20	-	-	-	-	-	-	219,280	152	24.00	57,409	40	23.91	86,057	60	23.91	252	362,746
Wed-7/15/20	-	-	-	-	-	-	219,319	152	24.00	57,608	40	24.00	86,421	60	24.00	252	363,348
Thu-7/16/20	-	-	-	-	-	-	219,181	152	24.00	57,529	40	23.95	86,237	60	23.95	252	362,947
Fri-7/17/20	-	-	-	-	-	-	219,208	152	24.00	57,621	40	24.00	86,420	60	24.00	252	363,249
Sat-7/18/20	-	-	-	-	-	-	219,226	152	24.00	57,507	40	24.00	86,434	60	24.00	252	363,167
Sun-7/19/20	-	-	-	-	-	-	219,107	152	24.00	52,665	40	21.98	78,986	60	21.93	244	350,758
Mon-7/20/20	-	-	-	-	-	-	218,999	152	24.00	57,617	40	24.00	86,481	60	24.00	252	363,097
Tue-7/21/20	-	-	-	-	-	-	219,026	152	24.00	57,689	40	24.00	86,443	60	24.00	252	363,158
Wed-7/22/20	-	-	-	-	-	-	219,126	152	24.00	57,660	40	24.00	86,453	60	24.00	252	363,239
Thu-7/23/20	-	-	-	-	-	-	219,132	152	24.00	57,614	40	24.00	86,440	60	24.00	252	363,186
Fri-7/24/20	-	-	-	-	-	-	219,195	152	24.00	57,593	40	24.00	86,467	60	24.00	252	363,255
Sat-7/25/20	-	-	-	-	-	-	219,213	152	24.00	57,579	40	24.00	86,471	60	24.00	252	363,263
Sun-7/26/20	-	-	-	-	-	-	219,202	152	24.00	57,538	40	24.00	86,403	60	24.00	252	363,143
Mon-7/27/20	-	-	-	-	-	-	219,206	152	24.00	57,381	40	23.93	86,168	60	23.93	252	362,755
Tue-7/28/20	-	-	-	-	-	-	219,142	152	24.00	57,586	40	24.00	86,472	60	24.00	252	363,200
Wed-7/29/20	-	-	-	-	-	-	219,133	152	24.00	57,569	40	24.00	86,414	60	24.00	252	363,116
Thu-7/30/20	-	-	-	-	-	-	214,140	152	23.50	56,060	40	23.40	84,151	60	23.40	246	354,351
Fri-7/31/20	-	-	-	-	-	-	219,099	152	24.00	57,559	40	24.00	86,380	60	24.00	252	363,038.00
TOTALS	-	-	-	-	-	-	6,799,268	153	743.02	1,773,815	40	739.69	2,661,492	60	739.27	252	11,234,575

TOTAL VOLUME EXTRACTED :	11,234,575 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	251.67 GPM

7/19/20 - TW-19 and TW-23 were shut down briefly due to storms in the area.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
04/06/20	34
05/01/20	33
06/01/20	54
07/08/20	25

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
04/06/20	61
05/01/20	70
06/04/20	61
07/08/20	57

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-07-13-20-10:20-1	07/13/20	140
TW-20-07-13-20-10:25-1	07/13/20	860
LB-4-07-13-20-09:45-1	07/13/20	470
TW-21-07-13-20-10:10-1	07/13/20	270
TW-18-07-13-20-10:15-1	07/13/20	230
TW-19-07-13-20-09:40-1	07/13/20	580
TW-23-07-13-20-09:55-1	07/13/20	560
PW-1-07-13-20-10:18-1	07/13/20	460
TW-22-07-13-20-10:28-1	07/13/20	470
TW-28-07-13-20-10:30-1	07/13/20	430

RED POND DATA

Month of: Jul-20

Date	Time	Notes	Red Pond				
			Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Wed-7/1/20	04:00:00.000		Y	5.0	-	24.00	484
Thu-7/2/20	04:00:00.000		Y	5.0	-	24.00	484
Fri-7/3/20	04:00:00.000		Y	5.0	-	24.00	484
Sat-7/4/20	04:00:00.000	(1)		4.9	-	24.00	483
Sun-7/5/20	04:00:00.000	(1)		4.9	-	24.00	483
Mon-7/6/20	04:00:00.000		Y	4.9	-	24.00	483
Tue-7/7/20	04:00:00.000		Y	4.7	-	24.00	482
Wed-7/8/20	04:00:00.000		Y	4.8	-	24.00	479
Thu-7/9/20	04:00:00.000		Y	4.7	-	24.00	478
Fri-7/10/20	04:00:00.000		Y	5.0	-	24.00	483
Sat-7/11/20	04:00:00.000	(1)		4.9	-	24.00	483
Sun-7/12/20	04:00:00.000	(1)		4.9	-	24.00	483
Mon-7/13/20	04:00:00.000		Y	5.0	-	24.00	480
Tue-7/14/20	04:00:00.000		Y	5.0	-	24.00	482
Wed-7/15/20	04:00:00.000		Y	4.9	-	24.00	483
Thu-7/16/20	04:00:00.000		Y	5.0	-	24.00	482
Fri-7/17/20	04:00:00.000		Y	4.9	-	24.00	482
Sat-7/18/20	04:00:00.000	(1)		4.8	-	24.00	482
Sun-7/19/20	04:00:00.000	(1)		4.7	-	24.00	464
Mon-7/20/20	04:00:00.000		Y	4.7	-	24.00	482
Tue-7/21/20	04:00:00.000		Y	4.6	-	24.00	482
Wed-7/22/20	04:00:00.000		Y	4.6	-	24.00	482
Thu-7/23/20	04:00:00.000		Y	4.6	-	24.00	482
Fri-7/24/20	04:00:00.000		Y	4.6	-	24.00	482
Sat-7/25/20	04:00:00.000	(1)		4.5	-	24.00	482
Sun-7/26/20	04:00:00.000	(1)		4.4	-	24.00	482
Mon-7/27/20	04:00:00.000		Y	4.4	-	24.00	482
Tue-7/28/20	04:00:00.000		Y	4.3	-	24.00	482
Wed-7/29/20	04:00:00.000		Y	4.3	-	24.00	482
Thu-7/30/20	04:00:00.000		Y	4.2	-	24.00	475
Fri-7/31/20	04:00:00.000		Y	4.2	-	24.00	483
TOTALS			-	-	-	744	

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

TABLE #10

RED POND CONCENTRATIONS

Concentrations of 1,4-Dioxane found in the Red Pond

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-07-06-20-08:45-1	7/6/2020	380
Red Pond-07-13-20-08:30-1	7/13/2020	360
Red Pond-07-20-20-09:46-1	7/20/2020	370
Red Pond-07-27-20-08:35-1	7/27/2020	340

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

OZONE OPERATION REPORT

Month of: **Jul-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
Wed-7/1/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Thu-7/2/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Fri-7/3/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Sat-7/4/20	14:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Sun-7/5/20	14:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-7/6/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-7/7/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-7/8/20	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Thu-7/9/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Fri-7/10/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Sat-7/11/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-7/12/20	14:00:00.00	(1)	241	24.00	0	0.00	239	24.00	0	0.00
Mon-7/13/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-7/14/20	14:00:00.00		240	23.83	0	0.00	240	23.83	0	0.00
Wed-7/15/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-7/16/20	14:00:00.00		240	24.00	0	0.00	242	24.00	0	0.00
Fri-7/17/20	14:00:00.00		241	24.00	0	0.00	239	24.00	0	0.00
Sat-7/18/20	14:00:00.00	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Sun-7/19/20	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Mon-7/20/20	14:00:00.00		241	24.00	0	0.00	241	24.00	0	0.00
Tue-7/21/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-7/22/20	14:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Thu-7/23/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-7/24/20	14:00:00.00		241	23.20	0	0.00	240	24.00	0	0.00
Sat-7/25/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-7/26/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-7/27/20	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Tue-7/28/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-7/29/20	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Thu-7/30/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-7/31/20	14:00:00.00		240	24.00	0	0.00	240	23.90	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.

GREEN POND / DISCHARGE DATA

Month of: Jul-20

			Green Pond																
Date	Time	Notes	Pond	Level	Aeration	Influent	Influent	Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Feet	Hours	Hours	GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	
Wed-7/1/20	14:00:00.00		Y	-	-					498	717,256	24.00	-	-	-	-	-	-	
Thu-7/2/20	14:00:00.00		Y	-	-					498	717,268	24.00	-	-	-	-	-	-	
Fri-7/3/20	14:00:00.00		Y	-	-					498	717,252	24.00	-	-	-	-	-	-	
Sat-7/4/20	14:00:00.00	(1)		-	-					498	717,406	24.00	-	-	-	-	-	-	
Sun-7/5/20	14:00:00.00	(1)		-	-					498	717,336	24.00	-	-	-	-	-	-	
Mon-7/6/20	14:00:00.00		Y	-	-					498	717,455	24.00	-	-	-	-	-	-	
Tue-7/7/20	14:00:00.00		Y	-	-					498	717,339	24.00	-	-	-	-	-	-	
Wed-7/8/20	14:00:00.00		Y	-	-					498	717,243	24.00	-	-	-	-	-	-	
Thu-7/9/20	14:00:00.00		Y	-	-					498	717,210	24.00	-	-	-	-	-	-	
Fri-7/10/20	14:00:00.00		Y	-	-					498	717,263	24.00	-	-	-	-	-	-	
Sat-7/11/20	14:00:00.00	(1)		-	-					498	717,090	24.00	-	-	-	-	-	-	
Sun-7/12/20	14:00:00.00	(1)		-	-					498	717,141	24.00	-	-	-	-	-	-	
Mon-7/13/20	14:00:00.00		Y	-	-					498	717,028	24.00	-	-	-	-	-	-	
Tue-7/14/20	14:00:00.00		Y	-	-					492	708,594	24.00	-	-	-	-	-	-	
Wed-7/15/20	14:00:00.00		Y	-	-					498	717,754	24.00	-	-	-	-	-	-	
Thu-7/16/20	14:00:00.00		Y	-	-					498	717,627	24.00	-	-	-	-	-	-	
Fri-7/17/20	14:00:00.00		Y	-	-					498	717,532	24.00	-	-	-	-	-	-	
Sat-7/18/20	14:00:00.00	(1)		-	-					499	717,861	24.00	-	-	-	-	-	-	
Sun-7/19/20	14:00:00.00	(1)		-	-					499	717,925	24.00	-	-	-	-	-	-	
Mon-7/20/20	14:00:00.00		Y	-	-					498	717,732	24.00	-	-	-	-	-	-	
Tue-7/21/20	14:00:00.00		Y	-	-					498	717,697	24.00	-	-	-	-	-	-	
Wed-7/22/20	14:00:00.00		Y	-	-					499	717,860	24.00	-	-	-	-	-	-	
Thu-7/23/20	14:00:00.00		Y	-	-					498	717,741	24.00	-	-	-	-	-	-	
Fri-7/24/20	14:00:00.00		Y	-	-					489	704,687	24.00	-	-	-	-	-	-	
Sat-7/25/20	14:00:00.00	(1)		-	-					498	717,772	24.00	-	-	-	-	-	-	
Sun-7/26/20	14:00:00.00	(1)		-	-					499	717,894	24.00	-	-	-	-	-	-	
Mon-7/27/20	14:00:00.00		Y	-	-					499	718,099	24.00	-	-	-	-	-	-	
Tue-7/28/20	14:00:00.00		Y	-	-					499	717,843	24.00	-	-	-	-	-	-	
Wed-7/29/20	14:00:00.00		Y	-	-					499	717,864	24.00	-	-	-	-	-	-	
Thu-7/30/20	14:00:00.00		Y	-	-					499	717,990	24.00	-	-	-	-	-	-	
Fri-7/31/20	14:00:00.00		Y	-	-					495	713,137	24.00	-	-	-	-	-	-	
TOTALS											22,217,896	744							

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

TABLE #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
7/1/2020	0.717	*G	*G	5.2		<50	<0.16	no	yes	6.7	6.7	7.0	50
7/2/2020	0.717					<50	<0.16	no	no	6.7	6.7		
7/3/2020	0.717												
7/4/2020	0.717												
7/5/2020	0.717			5.4								8.1	
7/6/2020	0.717			5.4	0.380	<50	<0.16	yes	yes	7.0	7.0	8.1	32
7/7/2020	0.717			5.3		<50	<0.16	no	no	7.1	7.1	7.5	
7/8/2020	0.717			5.2		<50	<0.16	no	yes	7.0	7.0	6.0	44
7/9/2020	0.717			5.0		<50	<0.16	no	no	7.0	7.0	8.4	
7/10/2020	0.717					<50	<0.16	no	no	6.9	6.9		
7/11/2020	0.717												
7/12/2020	0.717			5.0								7.6	
7/13/2020	0.717			5.0	0.360	<50	<0.16	yes	yes	7.1	7.1	8.8	26
7/14/2020	0.709			5.0		<50	<0.16	no	no	7.1	7.1	8.8	
7/15/2020	0.718			4.0		<50	<0.16	no	yes	7.0	7.0	9.2	42
7/16/2020	0.718			5.0		<50	<0.16	no	no	7.2	7.2	9.0	
7/17/2020	0.718					<50	<0.16	no	no	7.1	7.1		
7/18/2020	0.718												
7/19/2020	0.718			5.0								8.3	
7/20/2020	0.718			5.0	0.370	<50	<0.16	yes	yes	7.0	7.0	8.3	34
7/21/2020	0.718			5.0		<50	<0.16	no	no	7.1	7.1	8.6	
7/22/2020	0.718			5.0		<50	<0.16	no	yes	7.0	7.0	8.6	55
7/23/2020	0.718			5.0		<50	<0.16	no	no	7.0	7.0	8.9	
7/24/2020	0.705					<50	<0.16	no	no	7.0	7.0		
7/25/2020	0.718												
7/26/2020	0.718			4.0								9.1	
7/27/2020	0.718			5.0	0.340	<50	<0.16	yes	yes	7.1	7.1	8.2	44
7/28/2020	0.718			5.0		<50	<0.16	no	no	7.1	7.1	8.2	
7/29/2020	0.718			4.0		<50	<0.16	no	yes	7.1	7.1	7.6	52
7/30/2020	0.718			5.0		<50	<0.16	no	no	7.1	7.1	8.5	
7/31/2020	0.713					<50	<0.16	no	no	7.1	7.1		
Discharged (mg)	22.218												
Monthly Avg				4.9								8.2	