

February 10, 2020

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

**Re: Monitoring Report # 273
January 1 – January 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 January 1 through January 31, 2020.

Should you have any questions or concerns regarding this report, please contact me at 386-562-0176.

Sincerely,



Lawrence J. Gelb
Sr. Director Global EHS

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



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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: **Jan-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-1/1/20	-	-	-	-	-	-	-	-	-	86,493	60	24.00	60	86,493
Thu-1/2/20	-	-	-	-	-	-	43,438	30	24.00	86,515	60	24.00	90	129,953
Fri-1/3/20	-	-	-	-	-	-	35,965	25	24.00	81,086	61	22.00	81	117,051
Sat-1/4/20	-	-	-	-	-	-	36,130	25	24.00	84,665	59	24.00	84	120,795
Sun-1/5/20	-	-	-	-	-	-	36,199	25	24.00	84,773	59	24.00	84	120,972
Mon-1/6/20	-	-	-	612	51	0.20	36,153	25	24.00	76,046	60	21.00	78	112,811
Tue-1/7/20	-	-	-	41,326	50	13.65	35,898	25	24.00	79,450	55	23.90	109	156,674
Wed-1/8/20	-	-	-	15,198	50	5.12	36,115	25	24.00	76,517	56	22.63	89	127,830
Thu-1/9/20	-	-	-	-	-	-	36,159	25	24.00	77,468	57	22.62	79	113,627
Fri-1/10/20	-	-	-	-	-	-	40,113	29	23.42	76,286	56	22.70	81	116,399
Sat-1/11/20	-	-	-	-	-	-	50,615	35	24.00	76,314	57	22.36	88	126,929
Sun-1/12/20	-	-	-	-	-	-	50,506	35	24.00	84,856	59	24.00	94	135,362
Mon-1/13/20	-	-	-	39,664	50	13.33	50,554	35	24.00	79,667	58	23.00	118	169,885
Tue-1/14/20	-	-	-	73,160	51	24.00	50,602	35	24.00	73,922	55	22.60	137	197,684
Wed-1/15/20	-	-	-	74,601	52	24.00	49,237	34	23.85	79,322	59	22.50	141	203,160
Thu-1/16/20	-	-	-	73,225	51	24.00	50,546	35	24.00	82,697	58	23.62	143	206,468
Fri-1/17/20	-	-	-	73,375	51	24.00	50,495	35	24.00	86,393	60	24.00	146	210,263
Sat-1/18/20	-	-	-	73,871	51	23.98	50,600	35	24.00	86,426	60	24.00	146	210,897
Sun-1/19/20	-	-	-	74,159	51	24.00	50,417	35	24.00	86,351	60	24.00	146	210,927
Mon-1/20/20	-	-	-	74,264	52	24.00	27,411	35	13.23	86,358	60	24.00	131	188,033
Tue-1/21/20	-	-	-	74,308	52	24.00	42,111	35	20.30	86,407	60	24.00	141	202,826
Wed-1/22/20	-	-	-	37,919	48	13.18	25,716	35	12.38	86,400	60	24.00	104	150,035
Thu-1/23/20	-	-	-	-	-	-	-	-	-	85,782	60	24.00	60	85,782
Fri-1/24/20	-	-	-	-	-	-	45	15	0.05	86,446	60	24.00	60	86,491
Sat-1/25/20	-	-	-	-	-	-	-	-	-	86,421	60	24.00	60	86,421
Sun-1/26/20	-	-	-	-	-	-	-	-	-	86,412	60	24.00	60	86,412
Mon-1/27/20	-	-	-	-	-	-	-	-	-	86,414	60	24.00	60	86,414
Tue-1/28/20	-	-	-	-	-	-	-	-	-	86,434	60	24.00	60	86,434
Wed-1/29/20	-	-	-	-	-	-	-	-	-	86,441	60	24.00	60	86,441
Thu-1/30/20	-	-	-	-	-	-	-	-	-	86,439	60	24.00	60	86,439
Fri-1/31/20	-	-	-	-	-	-	-	-	-	86,278	60	24.00	60	86,278
TOTALS	-	-	-	725,682	51	237.47	885,025	30	477.23	2,581,479	59	728.93	94	4,192,186

TOTAL VOLUME EXTRACTED :	4,192,186 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	93.91 GPM

1/3/20 -TW-21 was shut down for communications upgrades.
 1/6/20 - TW-21 was shut down briefly for maintenance.
 1/8/20 - 1/11/20 - TW-21 was shut down briefly for maintenance.
 1/14/20 - 1/15/20 - TW-21 was shut down briefly for maintenance.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: **Jan-20**

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Wed-1/1/20	-	-	-	144,219	100	24.00	100	144,219
Thu-1/2/20	-	-	-	144,193	100	24.00	100	144,193
Fri-1/3/20	-	-	-	144,188	100	24.00	100	144,188
Sat-1/4/20	-	-	-	144,210	100	24.00	100	144,210
Sun-1/5/20	-	-	-	144,166	100	24.00	100	144,166
Mon-1/6/20	-	-	-	144,194	100	24.00	100	144,194
Tue-1/7/20	-	-	-	135,083	100	22.48	94	135,083
Wed-1/8/20	-	-	-	144,187	100	24.00	100	144,187
Thu-1/9/20	-	-	-	144,200	100	24.00	100	144,200
Fri-1/10/20	-	-	-	144,205	100	24.00	100	144,205
Sat-1/11/20	-	-	-	144,184	100	24.00	100	144,184
Sun-1/12/20	-	-	-	144,206	100	24.00	100	144,206
Mon-1/13/20	-	-	-	144,184	100	24.00	100	144,184
Tue-1/14/20	-	-	-	144,202	100	24.00	100	144,202
Wed-1/15/20	-	-	-	144,191	100	24.00	100	144,191
Thu-1/16/20	-	-	-	144,195	100	24.00	100	144,195
Fri-1/17/20	-	-	-	144,222	100	24.00	100	144,222
Sat-1/18/20	-	-	-	144,219	100	24.00	100	144,219
Sun-1/19/20	-	-	-	144,183	100	24.00	100	144,183
Mon-1/20/20	-	-	-	144,227	100	24.00	100	144,227
Tue-1/21/20	-	-	-	144,204	100	24.00	100	144,204
Wed-1/22/20	-	-	-	144,191	100	24.00	100	144,191
Thu-1/23/20	-	-	-	144,209	100	24.00	100	144,209
Fri-1/24/20	-	-	-	143,317	100	23.86	100	143,317
Sat-1/25/20	-	-	-	144,172	100	24.00	100	144,172
Sun-1/26/20	-	-	-	144,169	100	24.00	100	144,169
Mon-1/27/20	-	-	-	144,188	100	24.00	100	144,188
Tue-1/28/20	-	-	-	144,213	100	24.00	100	144,213
Wed-1/29/20	-	-	-	144,208	100	24.00	100	144,208
Thu-1/30/20	-	-	-	144,216	100	24.00	100	144,216
Fri-1/31/20	-	-	-	144,208	100	24.00	100	144,208
TOTALS	-	-	-	4,460,153	100	742.34	100	4,460,153

TOTAL VOLUME EXTRACTED :	4,460,153 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	99.91 GPM

1/7/20 - LB-4 was shut down briefly for communications maintenance.



TABLE #3

CORE AREA EXTRACTION DATA

Month of: **Jan-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-1/1/20	-	-	-	17,275	12	24.00	-	-	-	-	-	-	-	-	-	21,666	15	24.00	27	38,941
Thu-1/2/20	-	-	-	17,234	12	24.00	-	-	-	-	-	-	-	-	-	21,647	15	24.00	27	38,881
Fri-1/3/20	-	-	-	16,983	12	24.00	-	-	-	-	-	-	-	-	-	21,656	15	23.98	27	38,639
Sat-1/4/20	-	-	-	16,530	11	24.00	-	-	-	-	-	-	-	-	-	21,639	15	24.00	27	38,169
Sun-1/5/20	-	-	-	16,025	11	24.00	-	-	-	-	-	-	-	-	-	21,652	15	24.00	26	37,677
Mon-1/6/20	-	-	-	15,707	11	24.00	-	-	-	505	46	0.18	-	-	-	21,646	15	24.00	26	37,858
Tue-1/7/20	-	-	-	15,628	11	24.00	-	-	-	40,007	45	14.67	82	41	0.03	21,634	15	24.00	54	77,351
Wed-1/8/20	-	-	-	15,005	10	24.00	-	-	-	11,196	46	4.08	-	-	-	21,662	15	24.00	33	47,863
Thu-1/9/20	-	-	-	15,015	10	24.00	-	-	-	-	-	-	216	36	0.10	21,636	15	24.00	26	36,867
Fri-1/10/20	-	-	-	14,419	10	23.08	-	-	-	-	-	-	-	-	-	21,663	15	24.00	25	36,082
Sat-1/11/20	-	-	-	15,150	11	24.00	-	-	-	-	-	-	-	-	-	21,670	15	24.00	26	36,820
Sun-1/12/20	-	-	-	15,180	11	24.00	-	-	-	-	-	-	-	-	-	21,648	15	24.00	26	36,828
Mon-1/13/20	-	-	-	15,201	11	24.00	-	-	-	34,085	40	14.37	-	-	-	21,626	15	24.00	49	70,912
Tue-1/14/20	-	-	-	15,345	11	24.00	-	-	-	57,434	40	24.00	-	-	-	21,635	15	24.00	66	94,414
Wed-1/15/20	-	-	-	14,631	10	23.37	-	-	-	57,588	40	24.00	250	36	0.12	21,659	15	24.00	65	94,128
Thu-1/16/20	-	-	-	14,823	10	24.00	-	-	-	57,807	40	24.00	-	-	-	21,641	15	24.00	65	94,271
Fri-1/17/20	-	-	-	14,611	10	24.00	-	-	-	58,054	40	24.00	-	-	-	21,627	15	24.00	65	94,292
Sat-1/18/20	-	-	-	15,651	11	24.00	-	-	-	58,250	40	24.00	-	-	-	21,602	15	24.00	66	95,503
Sun-1/19/20	-	-	-	15,364	11	24.00	-	-	-	58,282	40	24.00	-	-	-	21,653	15	24.00	66	95,299
Mon-1/20/20	-	-	-	14,758	10	24.00	-	-	-	58,347	41	24.00	20,624	35	9.87	8,598	15	9.50	71	102,327
Tue-1/21/20	-	-	-	14,670	10	24.00	-	-	-	58,422	41	24.00	49,719	35	24.00	-	-	-	85	122,811
Wed-1/22/20	-	-	-	14,984	10	24.00	-	-	-	29,624	41	12.15	14,336	35	6.80	-	-	-	41	58,944
Thu-1/23/20	-	-	-	15,076	11	23.65	-	-	-	-	-	-	-	-	-	-	-	-	10	15,076
Fri-1/24/20	-	-	-	15,842	11	24.00	-	-	-	-	-	-	-	-	-	25,845	25	17.17	29	41,687
Sat-1/25/20	-	-	-	15,918	11	24.00	-	-	-	-	-	-	-	-	-	36,263	25	24.00	36	52,181
Sun-1/26/20	-	-	-	15,871	11	24.00	-	-	-	-	-	-	-	-	-	36,262	25	24.00	36	52,133
Mon-1/27/20	-	-	-	15,749	11	24.00	-	-	-	-	-	-	-	-	-	36,080	25	24.00	36	51,829
Tue-1/28/20	-	-	-	15,644	11	24.00	-	-	-	-	-	-	-	-	-	36,158	25	24.00	36	51,802
Wed-1/29/20	-	-	-	15,601	11	24.00	-	-	-	-	-	-	-	-	-	35,966	25	24.00	36	51,567
Thu-1/30/20	-	-	-	15,676	11	24.00	-	-	-	-	-	-	-	-	-	36,001	25	24.00	36	51,677
Fri-1/31/20	-	-	-	15,784	11	24.00	-	-	-	-	-	-	-	-	-	35,952	25	24.00	36	51,736
TOTALS	-	-	-	481,350	11	742.10	-	-	-	579,601	42	237.45	85,227	36	40.92	698,387	18	650.65	41	1,844,565

TOTAL VOLUME EXTRACTED : 1,844,565 GALLONS
DAYS IN MONTH : 31 DAYS
MONTHLY AVERAGE FLOW RATE : 41.32 GPM

1/20/20 - 1/24/20 - TW-20 was shut down for rehabilitation.

MARSHY AREA EXTRACTION DATA

Month of: Jan-20

Marshy Well Extraction				Daily	Daily
Date	PW-1		Run Hrs.	Flow	Total
	Gallons	GPM		GPM	Gallons
Wed-1/1/20	2,264	2	24.00	2	2,264
Thu-1/2/20	2,256	2	24.00	2	2,256
Fri-1/3/20	2,251	2	24.00	2	2,251
Sat-1/4/20	2,264	2	24.00	2	2,264
Sun-1/5/20	2,271	2	24.00	2	2,271
Mon-1/6/20	2,261	2	24.00	2	2,261
Tue-1/7/20	2,262	2	24.00	2	2,262
Wed-1/8/20	2,282	2	24.00	2	2,282
Thu-1/9/20	2,277	2	24.00	2	2,277
Fri-1/10/20	2,258	2	24.00	2	2,258
Sat-1/11/20	2,266	2	24.00	2	2,266
Sun-1/12/20	2,281	2	24.00	2	2,281
Mon-1/13/20	2,274	2	24.00	2	2,274
Tue-1/14/20	2,271	2	24.00	2	2,271
Wed-1/15/20	2,264	2	24.00	2	2,264
Thu-1/16/20	2,274	2	24.00	2	2,274
Fri-1/17/20	2,270	2	24.00	2	2,270
Sat-1/18/20	2,263	2	24.00	2	2,263
Sun-1/19/20	2,238	2	24.00	2	2,238
Mon-1/20/20	1,941	1	24.00	1	1,941
Tue-1/21/20	1,823	1	24.00	1	1,823
Wed-1/22/20	1,821	1	24.00	1	1,821
Thu-1/23/20	1,753	1	23.78	1	1,753
Fri-1/24/20	1,876	1	24.00	1	1,876
Sat-1/25/20	1,910	1	24.00	1	1,910
Sun-1/26/20	1,928	1	24.00	1	1,928
Mon-1/27/20	1,944	1	24.00	1	1,944
Tue-1/28/20	1,953	1	24.00	1	1,953
Wed-1/29/20	1,955	1	24.00	1	1,955
Thu-1/30/20	1,951	1	24.00	1	1,951
Fri-1/31/20	1,947	1	24.00	1	1,947
TOTALS	65,849	1	743.78	1	65,849

TOTAL VOLUME EXTRACTED :	65,849 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	1.48 GPM

SOUTHWEST AREA EXTRACTION DATA

Month of: Jan-20

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-1/1/20	1		-	28,414	20	24.00	20	28,415
Thu-1/2/20	5		-	28,372	20	23.88	20	28,377
Fri-1/3/20	1		-	28,565	20	23.98	20	28,566
Sat-1/4/20	-		-	28,515	20	24.00	20	28,515
Sun-1/5/20	-		-	28,471	20	24.00	20	28,471
Mon-1/6/20	-		-	28,536	20	24.00	20	28,536
Tue-1/7/20	-		-	28,667	20	23.90	20	28,667
Wed-1/8/20	-		-	28,697	20	24.00	20	28,697
Thu-1/9/20	-		-	28,646	20	24.00	20	28,646
Fri-1/10/20	-		-	28,612	20	24.00	20	28,612
Sat-1/11/20	-		-	13,302	20	11.13	9	13,302
Sun-1/12/20	-		-	-	-	-	<2	-
Mon-1/13/20	-		-	18,235	20	15.17	13	18,235
Tue-1/14/20	-		-	28,774	20	24.00	20	28,774
Wed-1/15/20	1,421	2	13.33	28,772	20	23.92	21	30,193
Thu-1/16/20	706	2	5.78	11,551	20	9.65	9	12,257
Fri-1/17/20	1,406	2	13.32	-	-	-	<2	1,406
Sat-1/18/20	2,424	2	24.00	-	-	-	<2	2,424
Sun-1/19/20	2,798	2	24.00	-	-	-	<2	2,798
Mon-1/20/20	2,918	2	24.00	19,605	20	16.43	16	22,523
Tue-1/21/20	2,940	2	24.00	28,768	20	24.00	22	31,708
Wed-1/22/20	2,917	2	24.00	28,860	20	24.00	22	31,777
Thu-1/23/20	2,642	2	23.77	28,633	20	23.77	22	31,275
Fri-1/24/20	2,858	2	24.00	33,806	23	24.00	25	36,664
Sat-1/25/20	3,074	2	24.00	36,076	25	24.00	27	39,150
Sun-1/26/20	3,086	2	24.00	36,046	25	24.00	27	39,132
Mon-1/27/20	3,100	2	24.00	35,979	25	24.00	27	39,079
Tue-1/28/20	3,068	2	24.00	36,099	25	24.00	27	39,167
Wed-1/29/20	3,103	2	24.00	36,187	25	24.00	27	39,290
Thu-1/30/20	3,112	2	24.00	36,156	25	24.00	27	39,268
Fri-1/31/20	3,098	2	24.00	43,602	30	24.00	32	46,700
TOTALS	44,678	2	368.20	785,946	22	603.83	21	830,624

TOTAL VOLUME EXTRACTED :	830,624 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	18.61 GPM

1/1/20 - 1/17/20 - TW-22 - Gallons not recorded due to low flow
 1/11/20 - 1/13/20 - TW-28 was shut down for communications maintenance.
 1/16/20 - 1/20/20 - TW-28 was shut down for rehabilitation.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: **Jan-20**

Date	TW-11			TW-17			TW-18			TW-19			TW-23			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Wed-1/1/20	-	-	-	101,110	70	24.00	115,494	82	23.42	44,501	31	24.00	99,955	69	24.00	251	361,060
Thu-1/2/20	-	-	-	101,154	70	24.00	116,993	82	23.85	44,483	31	24.00	100,173	70	24.00	252	362,803
Fri-1/3/20	-	-	-	100,994	70	24.00	109,840	81	22.47	44,367	31	23.90	99,759	70	23.88	247	354,960
Sat-1/4/20	-	-	-	101,055	70	24.00	115,699	82	23.65	44,418	31	23.88	93,049	65	23.88	246	354,221
Sun-1/5/20	-	-	-	101,078	70	24.00	115,109	82	23.53	44,326	31	23.90	91,269	64	23.90	244	351,782
Mon-1/6/20	-	-	-	101,116	70	24.00	104,434	82	21.28	48,400	37	21.66	78,589	61	21.60	231	332,539
Tue-1/7/20	-	-	-	101,086	70	24.00	108,969	82	22.20	55,626	42	22.03	77,308	59	21.91	238	342,989
Wed-1/8/20	-	-	-	101,056	70	24.00	105,606	82	21.48	59,162	42	23.38	81,060	58	23.30	241	346,884
Thu-1/9/20	-	-	-	101,133	70	24.00	107,543	82	21.98	57,995	42	22.80	77,514	57	22.66	239	344,185
Fri-1/10/20	-	-	-	101,176	70	24.00	104,730	81	21.45	56,741	42	22.45	74,590	56	22.33	234	337,237
Sat-1/11/20	-	-	-	101,095	70	24.00	103,201	79	21.90	58,965	42	23.28	77,342	56	23.20	237	340,603
Sun-1/12/20	-	-	-	101,127	70	24.00	115,875	82	23.68	60,342	42	24.00	79,126	55	24.00	248	356,470
Mon-1/13/20	-	-	-	100,934	70	23.98	43,581	81	8.93	57,843	42	22.75	73,362	54	22.55	191	275,720
Tue-1/14/20	-	-	-	100,890	70	24.00	-	-	-	56,856	42	22.31	70,818	53	22.11	159	228,564
Wed-1/15/20	-	-	-	100,880	70	24.00	-	-	-	56,506	42	22.23	70,535	54	21.96	158	227,921
Thu-1/16/20	-	-	-	100,877	70	24.00	-	-	-	72,859	51	23.78	65,689	46	23.75	166	239,425
Fri-1/17/20	-	-	-	100,848	70	24.00	-	-	-	79,128	55	24.00	61,165	42	24.00	167	241,141
Sat-1/18/20	-	-	-	100,875	70	23.97	-	-	-	78,658	55	23.85	58,869	41	23.81	166	238,402
Sun-1/19/20	-	-	-	100,833	70	24.00	-	-	-	79,087	55	24.00	58,061	40	24.00	165	237,981
Mon-1/20/20	-	-	-	100,849	70	24.00	-	-	-	79,173	55	24.00	57,170	40	24.00	165	237,192
Tue-1/21/20	-	-	-	100,860	70	24.00	-	-	-	79,174	55	24.00	57,465	40	24.00	165	237,499
Wed-1/22/20	-	-	-	84,671	59	23.97	114,282	152	12.57	79,102	55	24.00	57,473	40	24.00	233	335,528
Thu-1/23/20	-	-	-	64,439	45	23.78	215,590	151	23.73	121,396	85	23.75	18,515	40	7.80	292	419,940
Fri-1/24/20	-	-	-	50,218	48	17.47	218,136	152	23.98	85,166	98	14.43	-	-	-	246	353,520
Sat-1/25/20	-	-	-	72,138	50	24.00	218,047	151	24.00	-	-	-	-	-	-	202	290,185
Sun-1/26/20	-	-	-	72,202	50	24.00	218,198	152	24.00	-	-	-	-	-	-	202	290,400
Mon-1/27/20	-	-	-	72,201	50	24.00	218,240	152	24.00	-	-	-	-	-	-	202	290,441
Tue-1/28/20	-	-	-	72,214	50	24.00	177,348	155	19.08	-	-	-	-	-	-	173	249,562
Wed-1/29/20	-	-	-	80,445	56	24.00	209,255	146	23.97	-	-	-	-	-	-	201	289,700
Thu-1/30/20	-	-	-	86,675	60	24.00	203,764	142	24.00	-	-	-	-	-	-	202	290,439
Fri-1/31/20	-	-	-	86,730	60	24.00	212,938	148	23.97	-	-	-	-	-	-	208	299,668
TOTALS	-	-	-	2,862,959	65	737.17	3,372,872	111	503.13	1,544,274	47	552.38	1,678,856	53	520.64	212	9,458,961

TOTAL VOLUME EXTRACTED :	9,458,961 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	211.89 GPM

- 1/6/20 - 1/22/20 - TW-18 was shut down for rehabilitation
- 1/6/20 - 1/15/20 - TW-19 was shut down intermittently for communications maintenance.
- 1/6/20 - 1/16/20 - TW-23 was shut down intermittently due to low flow.
- 1/23/20 - 1/31/20 - TW-23 was shut down for rehabilitation.
- 1/24/20 - TW-17 was shut down for maintenance.
- 1/24/20 - 1/31/20 - TW-19 was shut down for rehabilitation.
- 1/28/20 - TW-18 was shut down for maintenance.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
10/03/19	36
11/01/19	43
12/10/19	32
01/06/20	35

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
10/03/19	81
11/01/19	82
12/05/19	59
01/06/20	66

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-01-03-20-09:12-1	01/03/20	150
TW-10-01-07-20-10:30-1	01/07/20	340
TW-10-01-14-20-13:15-1	01/14/20	550
TW-14-01-21-20-08:36-1	01/21/20	43
TW-20-01-03-20-09:21-1	01/03/20	740
LB-4-01-03-20-08:55-1	01/03/20	560
TW-21-01-03-20-09:05-1	01/03/20	250
TW-5-01-02-20-13:04-1	01/02/20	810
TW-5-01-03-20-09:33-1	01/03/20	810
TW-9-01-07-20-11:15-1	01/07/20	520
TW-9-01-14-20-13:20-1	01/14/20	530
TW-17-01-03-20-09:26-1	01/03/20	110
TW-17-01-24-20-15:13-1	01/24/20	83
TW-18-01-03-20-09:08-1	01/03/20	300
TW-18-01-23-20-08:05-1	01/23/20	250
TW-19-01-03-20-08:52-1	01/03/20	660
TW-23-01-03-20-08:50-1	01/03/20	460
PW-1-01-03-20-09:12-1	01/03/20	700
TW-22-01-15-20-11:50-1	01/15/20	420
TW-28-01-03-20-09:41-1	01/03/20	710



TABLE #9

RED POND DATA

Month of: Jan-20

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Wed-1/1/20	02:00:00.000		Y	3.9	-	24.00	459
Thu-1/2/20	02:00:00.000		Y	3.9	-	24.00	491
Fri-1/3/20	02:00:00.000		Y	3.8	-	24.00	476
Sat-1/4/20	02:00:00.000	(1)		3.7	-	24.00	478
Sun-1/5/20	02:00:00.000	(1)		3.6	-	24.00	476
Mon-1/6/20	02:00:00.000		Y	3.2	-	24.00	457
Tue-1/7/20	02:00:00.000		Y	4.2	-	24.00	516
Wed-1/8/20	02:00:00.000		Y	4.2	-	24.00	485
Thu-1/9/20	02:00:00.000		Y	4.0	-	24.00	465
Fri-1/10/20	02:00:00.000		Y	3.8	-	24.00	462
Sat-1/11/20	21:00:00.000	(1)		3.6	-	24.00	461
Sun-1/12/20	19:15:00.000	(1)		3.4	-	24.00	469
Mon-1/13/20	17:30:00.000		Y	3.3	-	24.00	473
Tue-1/14/20	15:45:00.000		Y	3.2	-	24.00	483
Wed-1/15/20	14:00:00.000		Y	3.3	-	24.00	487
Thu-1/16/20	12:15:00.000		Y	3.2	-	24.00	485
Fri-1/17/20	10:30:00.000		Y	3.2	-	24.00	482
Sat-1/18/20	08:45:00.000	(1)		3.2	-	24.00	482
Sun-1/19/20	07:00:00.000	(1)		3.1	-	24.00	482
Mon-1/20/20	05:15:00.000		Y	3.1	-	24.00	484
Tue-1/21/20	03:30:00.000		Y	3.6	-	24.00	514
Wed-1/22/20	02:00:00.000		Y	3.8	-	24.00	502
Thu-1/23/20	02:00:00.000		Y	4.0	-	24.00	485
Fri-1/24/20	02:00:00.000		Y	4.1	-	24.00	461
Sat-1/25/20	02:00:00.000	(1)		4.3	-	24.00	426
Sun-1/26/20	02:00:00.000	(1)		4.4	-	24.00	427
Mon-1/27/20	02:00:00.000		Y	4.4	-	24.00	426
Tue-1/28/20	02:00:00.000		Y	3.9	-	24.00	398
Wed-1/29/20	02:00:00.000		Y	3.9	-	24.00	426
Thu-1/30/20	02:00:00.000		Y	3.9	-	24.00	426
Fri-1/31/20	02:00:00.000		Y	3.9	-	24.00	438
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-01-06-20-08:17-1	1/6/2020	370
Red Pond-01-13-20-09:48-1	1/13/2020	390
Red Pond-01-20-20-08:10-1	1/20/2020	300
Red Pond-01-27-20-08:15-1	1/27/2020	400

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

OZONE OPERATION REPORT

Month of: Jan-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-1/1/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-1/2/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-1/3/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-1/4/20	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-1/5/20	12:00:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-1/6/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Tue-1/7/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-1/8/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-1/9/20	12:00:00.00		240	23.85	0	0.00	240	23.90	0	0.00
Fri-1/10/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Sat-1/11/20	11:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-1/12/20	19:15:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-1/13/20	17:30:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-1/14/20	15:45:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Wed-1/15/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-1/16/20	12:15:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-1/17/20	10:30:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Sat-1/18/20	18:45:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Sun-1/19/20	17:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-1/20/20	15:15:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-1/21/20	13:30:00.00		239	24.00	0	0.00	239	24.00	0	0.00
Wed-1/22/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-1/23/20	12:00:00.00		240	23.62	0	0.00	240	23.62	0	0.00
Fri-1/24/20	12:00:00.00		239	24.00	0	0.00	239	24.00	0	0.00
Sat-1/25/20	12:00:00.00	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Sun-1/26/20	12:00:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-1/27/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Tue-1/28/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-1/29/20	12:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Thu-1/30/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Fri-1/31/20	12:00:00.00		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.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Jan-20**

Date	Time	Notes	Green Pond														
			Pond			Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons
Wed-1/1/20	02:00:00.000		Y	-	-				497	714,990	24.00	-	-	-	-	-	-
Thu-1/2/20	02:00:00.000		Y	-	-				497	715,173	24.00	-	-	-	-	-	-
Fri-1/3/20	02:00:00.000		Y	-	-				497	715,362	24.00	-	-	-	-	-	-
Sat-1/4/20	02:00:00.000	(1)		-	-				497	715,272	24.00	-	-	-	-	-	-
Sun-1/5/20	02:00:00.000	(1)		-	-				497	715,134	24.00	-	-	-	-	-	-
Mon-1/6/20	02:00:00.000		Y	-	-				497	715,125	24.00	-	-	-	-	-	-
Tue-1/7/20	02:00:00.000		Y	-	-				497	715,297	24.00	-	-	-	-	-	-
Wed-1/8/20	02:00:00.000		Y	-	-				496	714,858	24.00	-	-	-	-	-	-
Thu-1/9/20	02:00:00.000		Y	-	-				492	708,525	24.00	-	-	-	-	-	-
Fri-1/10/20	02:00:00.000		Y	-	-				497	715,427	24.00	-	-	-	-	-	-
Sat-1/11/20	02:00:00.000	(1)		-	-				497	715,562	24.00	-	-	-	-	-	-
Sun-1/12/20	21:00:00.000	(1)		-	-				496	714,849	24.00	-	-	-	-	-	-
Mon-1/13/20	19:15:00.000		Y	-	-				497	714,973	24.00	-	-	-	-	-	-
Tue-1/14/20	17:30:00.000		Y	-	-				497	715,101	24.00	-	-	-	-	-	-
Wed-1/15/20	15:45:00.000		Y	-	-				497	715,113	24.00	-	-	-	-	-	-
Thu-1/16/20	14:00:00.000		Y	-	-				496	714,889	24.00	-	-	-	-	-	-
Fri-1/17/20	12:15:00.000		Y	-	-				496	714,685	24.00	-	-	-	-	-	-
Sat-1/18/20	10:30:00.000	(1)		-	-				497	714,990	24.00	-	-	-	-	-	-
Sun-1/19/20	08:45:00.000	(1)		-	-				497	714,963	24.00	-	-	-	-	-	-
Mon-1/20/20	07:00:00.000		Y	-	-				497	714,984	24.00	-	-	-	-	-	-
Tue-1/21/20	05:15:00.000		Y	-	-				497	715,162	24.00	-	-	-	-	-	-
Wed-1/22/20	03:30:00.000		Y	-	-				497	715,126	24.00	-	-	-	-	-	-
Thu-1/23/20	02:00:00.000		Y	-	-				496	698,609	23.47	-	-	-	-	-	-
Fri-1/24/20	02:00:00.000		Y	-	-				497	715,313	24.00	-	-	-	-	-	-
Sat-1/25/20	02:00:00.000	(1)		-	-				497	715,346	24.00	-	-	-	-	-	-
Sun-1/26/20	02:00:00.000	(1)		-	-				497	715,323	24.00	-	-	-	-	-	-
Mon-1/27/20	02:00:00.000		Y	-	-				497	715,414	24.00	-	-	-	-	-	-
Tue-1/28/20	02:00:00.000		Y	-	-				497	715,385	24.00	-	-	-	-	-	-
Wed-1/29/20	02:00:00.000		Y	-	-				497	715,168	24.00	-	-	-	-	-	-
Thu-1/30/20	02:00:00.000		Y	-	-				497	715,237	24.00	-	-	-	-	-	-
Fri-1/31/20	02:00:00.000		Y	-	-				497	715,263	24.00	-	-	-	-	-	-
TOTALS										22,146,618	743						

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
1/1/2020	0.715	*G	*G	5								7.4	
1/2/2020	0.715			7		<50	<0.16	yes	yes	6.9	6.9	6.4	55
1/3/2020	0.715					<50	<0.16	no	no	6.7	6.7		37
1/4/2020	0.715												
1/5/2020	0.715			7								5.7	
1/6/2020	0.715			6	0.370	<50	<0.16	yes	yes	6.6	6.6	6.7	35
1/7/2020	0.715			6		<50	<0.16	no	no	6.5	6.5	5.6	
1/8/2020	0.715			5		<50	<0.16	no	yes	6.8	6.8	6.7	25
1/9/2020	0.709			6		<50	<0.16	no	no	6.7	6.7	6	
1/10/2020	0.715					<50	<0.16	no	no	6.9	6.9		
1/11/2020	0.716												
1/12/2020	0.715			5								5.8	
1/13/2020	0.715			8.0	0.390	<50	<0.16	yes	yes	6.7	6.7	5.4	36
1/14/2020	0.715			7		<50	<0.16	no	no	6.8	6.8	6.8	
1/15/2020	0.715			6.8		<50	<0.16	no	yes	6.8	6.8	9.2	24
1/16/2020	0.715			6.7		<50	<0.16	no	no	7.0	7.0	7.4	
1/17/2020	0.715					<50	<0.16	no	no	6.9	6.9		
1/18/2020	0.715												
1/19/2020	0.715			6.7								8.7	
1/20/2020	0.715			7.0	0.300	<50	<0.16	yes	yes	6.7	6.7	7.7	20
1/21/2020	0.715			6.9		<50	<0.16	no	no	6.8	6.8	7.4	
1/22/2020	0.715			6.2		<50	<0.16	no	yes	6.7	6.7	7.4	25
1/23/2020	0.699			5.1		<50	<0.16	no	no	6.6	6.6	8.8	
1/24/2020	0.715					<50	<0.16	no	no	6.7	6.7		
1/25/2020	0.715												
1/26/2020	0.715			3.9								7.5	
1/27/2020	0.715			4.0	0.400	<50	<0.16	yes	yes	6.8	6.8	8.7	44
1/28/2020	0.715			4.0		<50	<0.16	no	no	6.9	6.9	7.2	
1/29/2020	0.715			4.0		<50	<0.16	no	yes	6.8	6.8	8.9	20
1/30/2020	0.715			3.9		<50	<0.16	no	no	6.6	6.6	7.6	
1/31/2020	0.715					<50	<0.16	no	no	6.6	6.6		
Discharged (mg)	22.147												
Monthly Avg				5.8								7.2	