



December 19, 2022

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

**Re: Monitoring Report #307
November 1 – November 30, 2022**

Dear Ms. Carver:

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, 2022.

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

Sincerely,

FLEIS & VANDENBRINK

A handwritten signature in black ink, appearing to read "Jim Brode", is written over a light blue horizontal line.

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-22

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	HW-S			TW-9			TW-5			TW-21			GPM	Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Tue-11/1/22	-	-	-	71,280	50	24.00	50,614	35	24.00	144,270	100	24.00	185	266,164
Wed-11/2/22	-	-	-	71,589	50	24.00	50,653	35	24.00	144,233	100	24.00	185	266,475
Thu-11/3/22	-	-	-	71,597	50	24.00	50,638	35	24.00	144,236	100	24.00	185	266,471
Fri-11/4/22	-	-	-	71,468	50	24.00	50,633	35	24.00	144,277	100	24.00	185	266,378
Sat-11/5/22	-	-	-	71,386	50	24.00	50,706	35	24.00	144,281	100	24.00	185	266,373
Sun-11/6/22	-	-	-	76,015	51	25.00	52,756	35	25.00	150,245	100	25.00	194	279,016
Mon-11/7/22	-	-	-	72,664	50	24.00	50,635	35	24.00	144,200	100	24.00	186	267,499
Tue-11/8/22	-	-	-	72,217	50	24.00	50,653	35	24.00	144,163	100	24.00	185	267,033
Wed-11/9/22	-	-	-	71,867	50	24.00	50,661	35	24.00	144,214	100	24.00	185	266,742
Thu-11/10/22	-	-	-	71,727	50	24.00	50,705	35	24.00	144,275	100	24.00	185	266,707
Fri-11/11/22	-	-	-	71,291	50	24.00	50,631	35	24.00	144,219	100	24.00	185	266,141
Sat-11/12/22	-	-	-	71,784	50	24.00	50,602	35	24.00	144,103	100	24.00	185	266,489
Sun-11/13/22	-	-	-	72,786	51	24.00	50,603	35	24.00	144,044	100	24.00	186	267,433
Mon-11/14/22	-	-	-	73,314	51	24.00	50,595	35	24.00	144,115	100	24.00	186	268,024
Tue-11/15/22	-	-	-	72,424	50	24.00	50,624	35	24.00	144,095	100	24.00	186	267,143
Wed-11/16/22	-	-	-	71,629	50	24.00	50,622	35	24.00	144,095	100	24.00	185	266,346
Thu-11/17/22	-	-	-	72,266	50	24.00	50,594	35	24.00	144,049	100	24.00	185	266,909
Fri-11/18/22	-	-	-	73,010	51	24.00	50,577	35	24.00	144,031	100	24.00	186	267,618
Sat-11/19/22	-	-	-	73,459	51	24.00	50,589	35	24.00	144,002	100	24.00	186	268,050
Sun-11/20/22	-	-	-	71,356	50	24.00	50,589	35	24.00	143,980	100	24.00	185	265,925
Mon-11/21/22	-	-	-	71,765	50	24.00	50,614	35	24.00	144,049	100	24.00	185	266,428
Tue-11/22/22	-	-	-	72,132	50	24.00	50,610	35	24.00	142,540	100	23.75	184	265,282
Wed-11/23/22	-	-	-	72,637	50	24.00	50,669	35	24.00	144,113	100	24.00	186	267,419
Thu-11/24/22	-	-	-	73,074	51	24.00	50,637	35	24.00	144,143	100	24.00	186	267,854
Fri-11/25/22	-	-	-	72,831	51	24.00	58,819	41	24.00	144,151	100	24.00	192	275,801
Sat-11/26/22	-	-	-	72,919	51	24.00	65,098	45	24.00	144,135	100	24.00	196	282,152
Sun-11/27/22	-	-	-	72,793	51	24.00	65,075	45	24.00	144,110	100	24.00	196	281,978
Mon-11/28/22	-	-	-	72,644	50	24.00	65,118	45	24.00	144,124	100	24.00	196	281,886
Tue-11/29/22	-	-	-	72,210	50	24.00	65,041	45	24.00	144,161	100	24.00	195	281,412
Wed-11/30/22	-	-	-	72,157	50	24.00	51,744	36	24.00	144,087	100	24.00	186	267,988
TOTALS	-	-	-	2,170,291	50	721.00	1,588,105	37	721.00	4,328,740	100	720.75	187	8,087,136

TOTAL VOLUME EXTRACTED :	8,087,136 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	187.20 GPM

UNIT D2 DOWNGRAIDENT EXTRACTION DATA

Month of: Nov-22

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Tue-11/1/22	-		-	144,237	100	24.00	100	144,237
Wed-11/2/22	-		-	144,216	100	24.00	100	144,216
Thu-11/3/22	-		-	144,203	100	24.00	100	144,203
Fri-11/4/22	-		-	144,238	100	24.00	100	144,238
Sat-11/5/22	-		-	144,179	100	24.00	100	144,179
Sun-11/6/22	-		-	150,237	100	25.00	104	150,237
Mon-11/7/22	-		-	144,223	100	24.00	100	144,223
Tue-11/8/22	-		-	144,212	100	24.00	100	144,212
Wed-11/9/22	-		-	144,227	100	24.00	100	144,227
Thu-11/10/22	-		-	144,254	100	24.00	100	144,254
Fri-11/11/22	-		-	144,194	100	24.00	100	144,194
Sat-11/12/22	-		-	144,213	100	24.00	100	144,213
Sun-11/13/22	-		-	144,191	100	24.00	100	144,191
Mon-11/14/22	-		-	144,234	100	24.00	100	144,234
Tue-11/15/22	-		-	144,194	100	24.00	100	144,194
Wed-11/16/22	-		-	144,259	100	24.00	100	144,259
Thu-11/17/22	-		-	144,244	100	24.00	100	144,244
Fri-11/18/22	-		-	144,249	100	24.00	100	144,249
Sat-11/19/22	-		-	144,253	100	24.00	100	144,253
Sun-11/20/22	-		-	144,201	100	24.00	100	144,201
Mon-11/21/22	-		-	144,242	100	24.00	100	144,242
Tue-11/22/22	-		-	144,216	100	24.00	100	144,216
Wed-11/23/22	-		-	144,223	100	24.00	100	144,223
Thu-11/24/22	-		-	144,250	100	24.00	100	144,250
Fri-11/25/22	-		-	144,194	100	24.00	100	144,194
Sat-11/26/22	-		-	144,211	100	24.00	100	144,211
Sun-11/27/22	-		-	144,191	100	24.00	100	144,191
Mon-11/28/22	-		-	144,227	100	24.00	100	144,227
Tue-11/29/22	-		-	144,223	100	24.00	100	144,223
Wed-11/30/22	-		-	144,239	100	24.00	100	144,239
TOTALS	-		-	4,332,674	100	721.00	100	4,332,674

TOTAL VOLUME EXTRACTED :	4,332,674 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	100.29 GPM

TABLE #3

CORE AREA EXTRACTION DATA

Month of: Nov-22

Core Area Well Extraction																								Daily Flow	Daily Total	
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			TW-24			TW-25			GPM	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.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Tue-11/1/22	-	-	-	50,380	35	24.00	-	-	-	-	-	-	-	-	-	42,992	30	24.00	28,640	20	24.00	29,092	20	24.00	85	122,012
Wed-11/2/22	-	-	-	50,370	35	24.00	-	-	-	-	-	-	-	-	-	42,972	30	24.00	28,559	20	24.00	29,059	20	24.00	85	121,901
Thu-11/3/22	-	-	-	50,331	35	24.00	-	-	-	-	-	-	-	-	-	42,923	30	24.00	28,632	20	24.00	29,112	20	24.00	85	121,886
Fri-11/4/22	-	-	-	50,319	35	24.00	-	-	-	-	-	-	-	-	-	43,282	30	24.00	28,704	20	24.00	28,963	20	24.00	85	122,305
Sat-11/5/22	-	-	-	50,318	35	24.00	-	-	-	-	-	-	-	-	-	43,209	30	24.00	28,800	20	24.00	28,871	20	24.00	85	122,327
Sun-11/6/22	-	-	-	52,385	35	25.00	-	-	-	-	-	-	-	-	-	44,976	30	25.00	29,782	20	25.00	30,309	20	25.00	88	127,143
Mon-11/7/22	-	-	-	50,291	35	24.00	-	-	-	-	-	-	-	-	-	43,161	30	24.00	28,422	20	24.00	28,732	20	24.00	85	121,874
Tue-11/8/22	-	-	-	50,299	35	24.00	-	-	-	-	-	-	-	-	-	43,164	30	24.00	28,450	20	24.00	28,870	20	24.00	85	121,913
Wed-11/9/22	-	-	-	50,286	35	24.00	-	-	-	-	-	-	-	-	-	43,223	30	24.00	28,657	20	24.00	28,994	20	24.00	85	122,166
Thu-11/10/22	-	-	-	50,202	35	24.00	-	-	-	-	-	-	-	-	-	43,247	30	24.00	28,741	20	24.00	28,930	20	24.00	85	122,190
Fri-11/11/22	-	-	-	50,175	35	24.00	-	-	-	-	-	-	-	-	-	43,230	30	24.00	28,803	20	24.00	28,870	20	24.00	85	122,208
Sat-11/12/22	-	-	-	50,138	35	24.00	-	-	-	-	-	-	-	-	-	43,187	30	24.00	28,648	20	24.00	28,988	20	24.00	85	121,973
Sun-11/13/22	-	-	-	50,138	35	24.00	-	-	-	-	-	-	-	-	-	43,162	30	24.00	28,488	20	24.00	28,972	20	24.00	85	121,788
Mon-11/14/22	-	-	-	50,153	35	24.00	-	-	-	-	-	-	-	-	-	43,189	30	24.00	28,456	20	24.00	28,946	20	24.00	85	121,798
Tue-11/15/22	-	-	-	50,093	35	24.00	-	-	-	-	-	-	-	-	-	43,166	30	24.00	28,604	20	24.00	29,013	20	24.00	85	121,863
Wed-11/16/22	-	-	-	50,035	35	24.00	-	-	-	-	-	-	-	-	-	43,150	30	24.00	28,657	20	24.00	28,949	20	24.00	85	121,842
Thu-11/17/22	-	-	-	50,010	35	24.00	-	-	-	-	-	-	-	-	-	43,125	30	24.00	28,585	20	24.00	29,056	20	24.00	85	121,720
Fri-11/18/22	-	-	-	49,354	34	24.00	-	-	-	-	-	-	-	-	-	43,113	30	24.00	28,518	20	24.00	29,072	20	24.00	84	120,985
Sat-11/19/22	-	-	-	49,201	34	24.00	-	-	-	-	-	-	-	-	-	42,984	30	24.00	28,503	20	24.00	29,054	20	24.00	84	120,688
Sun-11/20/22	-	-	-	49,277	34	24.00	-	-	-	-	-	-	-	-	-	42,963	30	24.00	28,642	20	24.00	28,991	20	24.00	84	120,882
Mon-11/21/22	-	-	-	49,324	34	24.00	-	-	-	-	-	-	-	-	-	42,995	30	24.00	28,825	20	24.00	29,036	20	24.00	84	121,144
Tue-11/22/22	-	-	-	49,401	34	24.00	-	-	-	-	-	-	-	-	-	43,006	30	24.00	28,809	20	24.00	29,038	20	24.00	84	121,216
Wed-11/23/22	-	-	-	49,350	34	24.00	-	-	-	-	-	-	-	-	-	42,986	30	24.00	28,814	20	24.00	28,995	20	24.00	84	121,150
Thu-11/24/22	-	-	-	49,384	34	24.00	-	-	-	-	-	-	-	-	-	42,997	30	24.00	28,858	20	24.00	28,952	20	24.00	84	121,239
Fri-11/25/22	-	-	-	49,411	34	24.00	-	-	-	-	-	-	-	-	-	42,951	30	24.00	28,880	20	24.00	28,919	20	24.00	84	121,242
Sat-11/26/22	-	-	-	49,429	34	24.00	-	-	-	-	-	-	-	-	-	42,933	30	24.00	28,910	20	24.00	28,886	20	24.00	84	121,272
Sun-11/27/22	-	-	-	49,374	34	24.00	-	-	-	-	-	-	-	-	-	42,922	30	24.00	28,906	20	24.00	28,772	20	24.00	84	121,202
Mon-11/28/22	-	-	-	49,170	34	24.00	-	-	-	-	-	-	-	-	-	42,914	30	24.00	28,432	20	24.00	29,009	20	24.00	84	120,516
Tue-11/29/22	-	-	-	49,138	34	24.00	-	-	-	-	-	-	-	-	-	43,215	30	24.00	28,936	20	24.00	28,914	20	24.00	84	121,289
Wed-11/30/22	-	-	-	48,983	34	23.88	-	-	-	-	-	-	-	-	-	43,160	30	24.00	28,903	20	24.00	28,959	20	24.00	84	121,046
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS	-	-	-	1,496,719	35	720.88	-	-	-	-	-	-	-	-	-	1,294,497	30	721.00	861,564	20	721.00	870,323	20	721.00	85	3,652,780

TOTAL VOLUME EXTRACTED : 3,652,780 GALLONS

DAYS IN MONTH : 30 DAYS

MONTHLY AVERAGE FLOW RATE : 84.56 GPM

MARSHY AREA EXTRACTION DATA

Month of: Nov-22

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1 Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-11/1/22	1,936	1	24.00	1	1,936
Wed-11/2/22	1,945	1	24.00	1	1,945
Thu-11/3/22	1,944	1	24.00	1	1,944
Fri-11/4/22	1,941	1	24.00	1	1,941
Sat-11/5/22	1,942	1	24.00	1	1,942
Sun-11/6/22	2,032	1	25.00	1	2,032
Mon-11/7/22	1,947	1	24.00	1	1,947
Tue-11/8/22	1,940	1	24.00	1	1,940
Wed-11/9/22	1,924	1	24.00	1	1,924
Thu-11/10/22	1,911	1	24.00	1	1,911
Fri-11/11/22	1,646	1	22.37	1	1,646
Sat-11/12/22	1,723	1	24.00	1	1,723
Sun-11/13/22	1,715	1	24.00	1	1,715
Mon-11/14/22	1,721	1	24.00	1	1,721
Tue-11/15/22	1,728	1	24.00	1	1,728
Wed-11/16/22	1,732	1	24.00	1	1,732
Thu-11/17/22	1,753	1	24.00	1	1,753
Fri-11/18/22	1,781	1	24.00	1	1,781
Sat-11/19/22	1,796	1	24.00	1	1,796
Sun-11/20/22	1,797	1	24.00	1	1,797
Mon-11/21/22	1,789	1	24.00	1	1,789
Tue-11/22/22	1,762	1	24.00	1	1,762
Wed-11/23/22	1,755	1	24.00	1	1,755
Thu-11/24/22	1,756	1	24.00	1	1,756
Fri-11/25/22	1,757	1	24.00	1	1,757
Sat-11/26/22	1,758	1	24.00	1	1,758
Sun-11/27/22	1,758	1	24.00	1	1,758
Mon-11/28/22	1,756	1	24.00	1	1,756
Tue-11/29/22	1,756	1	24.00	1	1,756
Wed-11/30/22	1,763	1	24.00	1	1,763
TOTALS	54,464	1	719.37	1	54,464

TOTAL VOLUME EXTRACTED :	54,464 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	1.26 GPM

11/11/22 - PW-1 was shut down for maintenance.

SOUTHWEST AREA EXTRACTION DATA

Month of: Nov-22

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-11/1/22	2,900	2	24.00	35,732	25	24.00	27	38,632
Wed-11/2/22	2,895	2	24.00	35,716	25	24.00	27	38,611
Thu-11/3/22	2,905	2	24.00	35,726	25	24.00	27	38,631
Fri-11/4/22	2,901	2	24.00	35,735	25	24.00	27	38,636
Sat-11/5/22	2,898	2	24.00	35,731	25	24.00	27	38,629
Sun-11/6/22	3,020	2	25.00	37,182	25	25.00	27	40,202
Mon-11/7/22	2,885	2	24.00	35,706	25	24.00	27	38,591
Tue-11/8/22	2,860	2	24.00	36,204	25	24.00	27	39,064
Wed-11/9/22	2,888	2	24.00	36,195	25	24.00	27	39,083
Thu-11/10/22	2,905	2	24.00	36,083	25	24.00	27	38,988
Fri-11/11/22	2,895	2	24.00	36,120	25	24.00	27	39,015
Sat-11/12/22	2,891	2	24.00	36,098	25	24.00	27	38,989
Sun-11/13/22	2,885	2	24.00	36,058	25	24.00	27	38,943
Mon-11/14/22	2,887	2	24.00	36,073	25	24.00	27	38,960
Tue-11/15/22	2,889	2	24.00	36,074	25	24.00	27	38,963
Wed-11/16/22	2,886	2	24.00	36,075	25	24.00	27	38,961
Thu-11/17/22	2,885	2	24.00	36,045	25	24.00	27	38,930
Fri-11/18/22	2,882	2	24.00	36,043	25	24.00	27	38,925
Sat-11/19/22	2,893	2	24.00	36,005	25	24.00	27	38,898
Sun-11/20/22	2,893	2	24.00	35,968	25	24.00	27	38,861
Mon-11/21/22	2,898	2	24.00	36,012	25	24.00	27	38,910
Tue-11/22/22	2,901	2	24.00	36,026	25	24.00	27	38,927
Wed-11/23/22	2,903	2	24.00	35,996	25	24.00	27	38,899
Thu-11/24/22	2,905	2	24.00	36,006	25	24.00	27	38,911
Fri-11/25/22	2,889	2	24.00	35,976	25	24.00	27	38,865
Sat-11/26/22	2,880	2	24.00	35,965	25	24.00	27	38,845
Sun-11/27/22	2,906	2	24.00	35,979	25	24.00	27	38,885
Mon-11/28/22	2,891	2	24.00	35,937	25	24.00	27	38,828
Tue-11/29/22	2,889	2	24.00	35,913	25	24.00	27	38,802
Wed-11/30/22	2,874	2	24.00	35,902	25	24.00	27	38,776
	-	0	-	-	0	-	0	
TOTALS	86,879	2	721.00	1,080,281	24	721.00	26	1,167,160

TOTAL VOLUME EXTRACTED :	1,167,160 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	27.02 GPM

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Nov-22

Date	TW-11 Gallons	GPM	Run Hrs.	TW-17 Gallons	GPM	Run Hrs.	TW-18 Gallons	GPM	Run Hrs.	TW-29 Gallons	GPM	Run Hrs.	TW-23 Gallons	GPM	Run Hrs.	Daily Flow GPM	Daily Total Gallons
Tue-11/1/22	-	-	-	-	-	-	148,045	103	24.00	35,889	25	24.00	108,278	75	24.00	203	292,212
Wed-11/2/22	-	-	-	-	-	-	147,989	103	24.00	35,840	25	24.00	108,330	75	24.00	203	292,159
Thu-11/3/22	-	-	-	-	-	-	148,020	103	24.00	35,842	25	24.00	108,324	75	24.00	203	292,186
Fri-11/4/22	-	-	-	16,790	25	11.07	148,073	103	24.00	35,882	25	24.00	108,376	75	24.00	215	309,121
Sat-11/5/22	-	-	-	36,194	25	24.00	148,077	103	24.00	35,933	25	24.00	108,290	75	24.00	228	328,494
Sun-11/6/22	-	-	-	37,634	25	25.00	154,267	103	25.00	37,347	25	25.00	112,769	75	25.00	238	342,017
Mon-11/7/22	-	-	-	36,345	25	24.00	148,171	103	24.00	35,804	25	24.00	108,035	75	24.00	228	328,355
Tue-11/8/22	-	-	-	36,299	25	24.00	148,104	103	24.00	35,822	25	24.00	108,412	75	24.00	228	328,637
Wed-11/9/22	-	-	-	36,069	25	24.00	148,069	103	24.00	35,543	25	23.78	107,232	75	23.80	227	326,913
Thu-11/10/22	-	-	-	36,173	25	24.00	148,108	103	24.00	35,769	25	24.00	108,278	75	24.00	228	328,328
Fri-11/11/22	-	-	-	36,269	25	24.00	138,006	103	22.38	35,768	25	24.00	108,384	75	24.00	221	318,427
Sat-11/12/22	-	-	-	36,036	25	24.00	148,024	103	24.00	35,774	25	24.00	108,132	75	24.00	228	327,966
Sun-11/13/22	-	-	-	36,194	25	24.00	147,944	103	24.00	35,933	25	24.00	108,087	75	24.00	228	328,158
Mon-11/14/22	-	-	-	11,035	25	7.33	147,946	103	24.00	35,961	25	24.00	108,306	75	24.00	211	303,248
Tue-11/15/22	-	-	-	-	-	-	147,938	103	24.00	36,027	25	24.00	108,320	75	24.00	203	292,285
Wed-11/16/22	-	-	-	-	-	-	147,917	103	24.00	36,062	25	24.00	108,275	75	24.00	203	292,254
Thu-11/17/22	-	-	-	-	-	-	147,903	103	24.00	36,092	25	24.00	108,200	75	24.00	203	292,195
Fri-11/18/22	-	-	-	-	-	-	147,880	103	24.00	36,010	25	24.00	108,122	75	24.00	203	292,012
Sat-11/19/22	-	-	-	-	-	-	147,877	103	24.00	36,027	25	24.00	108,150	75	24.00	203	292,054
Sun-11/20/22	-	-	-	-	-	-	147,836	103	24.00	35,910	25	24.00	108,556	75	24.00	203	292,302
Mon-11/21/22	-	-	-	-	-	-	147,854	103	24.00	35,987	25	24.00	108,328	75	24.00	203	292,169
Tue-11/22/22	-	-	-	-	-	-	146,240	103	23.75	35,978	25	24.00	108,351	75	24.00	202	290,569
Wed-11/23/22	-	-	-	-	-	-	147,874	103	24.00	35,984	25	24.00	108,055	75	24.00	203	291,913
Thu-11/24/22	-	-	-	-	-	-	147,887	103	24.00	35,941	25	24.00	108,440	75	24.00	203	292,268
Fri-11/25/22	-	-	-	-	-	-	147,878	103	24.00	35,942	25	24.00	108,078	75	24.00	203	291,898
Sat-11/26/22	-	-	-	-	-	-	147,880	103	24.00	35,967	25	24.00	108,233	75	24.00	203	292,080
Sun-11/27/22	-	-	-	-	-	-	147,891	103	24.00	36,043	25	24.00	108,375	75	24.00	203	292,309
Mon-11/28/22	-	-	-	-	-	-	147,886	103	24.00	35,932	25	24.00	108,238	75	24.00	203	292,056
Tue-11/29/22	-	-	-	-	-	-	147,911	103	24.00	35,969	25	24.00	108,288	75	24.00	203	292,168
Wed-11/30/22	-	-	-	31,758	25	20.92	147,885	103	24.00	36,014	25	24.00	108,215	75	24.00	225	323,872
TOTALS	-	-	-	386,796	25	256.32	4,433,380	103	719.13	1,078,992	25	720.78	3,251,457	75	720.80	212	9,150,625

TOTAL VOLUME EXTRACTED :	9,150,625 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	211.82 GPM

11/1/22 - 11/3/22 - TW-17 was shut down for maintenance.

11/11/22 - TW-18 was shut down for maintenance.

11/14/22 - 11/30/22 TW-17 was shut down for maintenance.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
08/02/22	22
09/02/22	21
10/03/22	19
11/04/22	17

TABLE #8**INDIVIDUAL PURGE WELL CONCENTRATIONS**

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-11-09-22-11:37-1	11/09/22	110
TW-20-11-09-22-13:00-1	11/09/22	730
TW-24-11-09-22-11:30-1	11/09/22	1900
TW-25-11-09-22-11:40-1	11/09/22	1500
LB-4-11-09-22-10:50-1	11/09/22	420
TW-21-11-09-22-11:15-1	11/09/22	210
TW-5-11-09-22-12:00-1	11/09/22	610
TW-9-11-09-22-12:10-1	11/09/22	380
TW-17-11-04-22-13:33-1	11/04/22	120
TW-17-11-09-22-11:50-1	11/09/22	54
TW-18-11-09-22-11:20-1	11/09/22	220
TW-23-11-09-22-10:55-1	11/09/22	340
TW-29-11-09-22-11:00-1	11/09/22	310
PW-1-11-09-22-11:35-1	11/09/22	980
TW-22-11-09-22-12:40-1	11/09/22	440
TW-28-11-09-22-12:20-1	11/09/22	580

RED POND DATA

Month of: Nov-22

			Red Pond				
Date	Time	Notes	Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Tue-11/1/22	04:00:00.000		Y	4.3	-	24.00	601
Wed-11/2/22	04:00:00.000		Y	4.1	-	24.00	601
Thu-11/3/22	04:00:00.000		Y	3.9	-	24.00	601
Fri-11/4/22	04:00:00.000		Y	3.9	-	24.00	613
Sat-11/5/22	03:00:00.000	(1)		4.1	-	24.00	626
Sun-11/6/22	04:00:00.000	(1)		4.2	-	25.00	627
Mon-11/7/22	04:00:00.000		Y	4.4	-	24.00	627
Tue-11/8/22	04:00:00.000		Y	4.5	-	24.00	627
Wed-11/9/22	04:00:00.000		Y	4.7	-	24.00	626
Thu-11/10/22	04:00:00.000		Y	4.8	-	24.00	627
Fri-11/11/22	04:00:00.000		Y	5.9	-	24.00	619
Sat-11/12/22	04:00:00.000	(1)		6.0	-	24.00	626
Sun-11/13/22	04:00:00.000	(1)		6.1	-	24.00	627
Mon-11/14/22	04:00:00.000		Y	6.0	-	24.00	610
Tue-11/15/22	04:00:00.000		Y	5.8	-	24.00	602
Wed-11/16/22	04:00:00.000		Y	5.8	-	24.00	601
Thu-11/17/22	04:00:00.000		Y	5.6	-	24.00	601
Fri-11/18/22	04:00:00.000		Y	5.8	-	24.00	601
Sat-11/19/22	04:00:00.000	(1)		5.6	-	24.00	601
Sun-11/20/22	04:00:00.000	(1)		5.3	-	24.00	600
Mon-11/21/22	04:00:00.000		Y	5.1	-	24.00	600
Tue-11/22/22	04:00:00.000		Y	4.8	-	24.00	599
Wed-11/23/22	04:00:00.000		Y	4.5	-	24.00	601
Thu-11/24/22	04:00:00.000		Y	4.3	-	24.00	602
Fri-11/25/22	04:00:00.000		Y	4.1	-	24.00	607
Sat-11/26/22	04:00:00.000	(1)		4.0	-	24.00	611
Sun-11/27/22	04:00:00.000	(1)		4.0	-	24.00	611
Mon-11/28/22	04:00:00.000		Y	3.8	-	24.00	611
Tue-11/29/22	04:00:00.000		Y	3.8	-	24.00	611
Wed-11/30/22	04:00:00.000		Y	4.8	-	24.00	623
-	-		-	-	-	-	-
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.

TABLE #10
RED POND CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-11-01-22-07:30-1	11/1/2022	430
Red Pond-11-02-22-07:30-1	11/2/2022	410
Red Pond-11-03-22-08:00-1	11/3/2022	450
Red Pond-11-04-22-07:25-1	11/4/2022	430
Red Pond-11-07-22-07:30-1	11/7/2022	390
Red Pond-11-08-22-07:35-1	11/8/2022	420
Red Pond-11-09-22-08:05-1	11/9/2022	390
Red Pond-11-10-22-07:40-1	11/10/2022	400
Red Pond-11-11-22-06:25-1	11/11/2022	400
Red Pond-11-14-22-07:30-1	11/14/2022	380
Red Pond-11-15-22-07:30-1	11/15/2022	400
Red Pond-11-16-22-07:25-1	11/16/2022	410
Red Pond-11-17-22-08:00-1	11/17/2022	380
Red Pond-11-18-22-08:00-1	11/18/2022	400
Red Pond-11-21-22-08:00-1	11/21/2022	400
Red Pond-11-22-22-07:35-1	11/22/2022	400
Red Pond-11-23-22-08:25-1	11/23/2022	420
Red Pond-11-28-22-07:55-1	11/28/2022	400
Red Pond-11-29-22-07:40-1	11/29/2022	400
Red Pond-11-30-22-08:15-1	11/30/2022	340

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

TABLE #11

OZONE OPERATION REPORT

Month of: Nov-22

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
Tue-11/1/22	04:00:00.000		236	24.00	0	0.00	380	24.00	0	0.00
Wed-11/2/22	04:00:00.000		237	24.00	0	0.00	380	24.00	0	0.00
Thu-11/3/22	04:00:00.000		237	24.00	0	0.00	381	24.00	0	0.00
Fri-11/4/22	04:00:00.000		244	24.00	0	0.00	381	24.00	0	0.00
Sat-11/5/22	03:00:00.000	(1)	241	24.00	0	0.00	381	24.00	0	0.00
Sun-11/6/22	04:00:00.000	(1)	238	25.00	0	0.00	381	25.00	0	0.00
Mon-11/7/22	04:00:00.000		244	24.00	0	0.00	381	24.00	0	0.00
Tue-11/8/22	04:00:00.000		238	24.00	0	0.00	380	24.00	0	0.00
Wed-11/9/22	04:00:00.000		242	24.00	0	0.00	380	24.00	0	0.00
Thu-11/10/22	04:00:00.000		238	24.00	0	0.00	382	24.00	0	0.00
Fri-11/11/22	04:00:00.000		238	21.17	0	0.00	382	21.15	0	0.00
Sat-11/12/22	04:00:00.000	(1)	240	24.00	0	0.00	380	24.00	0	0.00
Sun-11/13/22	04:00:00.000	(1)	243	24.00	0	0.00	380	24.00	0	0.00
Mon-11/14/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Tue-11/15/22	04:00:00.000		238	24.00	0	0.00	381	24.00	0	0.00
Wed-11/16/22	04:00:00.000		242	23.42	0	0.00	381	23.47	0	0.00
Thu-11/17/22	04:00:00.000		242	24.00	0	0.00	380	24.00	0	0.00
Fri-11/18/22	04:00:00.000		242	21.17	0	0.00	381	24.00	0	0.00
Sat-11/19/22	04:00:00.000	(1)	239	24.00	0	0.00	381	24.00	0	0.00
Sun-11/20/22	04:00:00.000	(1)	243	24.00	0	0.00	381	24.00	0	0.00
Mon-11/21/22	04:00:00.000		238	24.00	0	0.00	380	24.00	0	0.00
Tue-11/22/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Wed-11/23/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Thu-11/24/22	04:00:00.000		244	24.00	0	0.00	381	24.00	0	0.00
Fri-11/25/22	04:00:00.000		237	24.00	0	0.00	381	24.00	0	0.00
Sat-11/26/22	04:00:00.000	(1)	242	24.00	0	0.00	380	24.00	0	0.00
Sun-11/27/22	04:00:00.000	(1)	242	24.00	0	0.00	380	24.00	0	0.00
Mon-11/28/22	04:00:00.000		243	24.00	0	0.00	380	24.00	0	0.00
Tue-11/29/22	04:00:00.000		242	24.00	0	0.00	380	24.00	0	0.00
Wed-11/30/22	04:00:00.000		238	24.00	0	0.00	380	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.

11/11/22 System 1-A and System 2-A were shut down for maintenance.
 11/16/2022 System 1-A and System 2-A were briefly shut down for maintenance.
 11/18/22 System 1-A was shut down for maintenance.

TABLE #12
GREEN POND / DISCHARGE DATA

Month of: Nov-22

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	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours
Tue-11/1/22	04:00:00.000		Y	-	-						640	922,245	24.00	-	-	-	-	-	-
Wed-11/2/22	04:00:00.000		Y	-	-						641	922,625	24.00	-	-	-	-	-	-
Thu-11/3/22	04:00:00.000		Y	-	-						640	920,890	24.00	-	-	-	-	-	-
Fri-11/4/22	04:00:00.000		Y	-	-						639	920,815	24.00	-	-	-	-	-	-
Sat-11/5/22	03:00:00.000	(1)		-	-						639	920,749	24.00	-	-	-	-	-	-
Sun-11/6/22	04:00:00.000	(1)		-	-						639	959,093	25.00	-	-	-	-	-	-
Mon-11/7/22	04:00:00.000		Y	-	-						639	920,871	24.00	-	-	-	-	-	-
Tue-11/8/22	04:00:00.000		Y	-	-						640	921,244	24.00	-	-	-	-	-	-
Wed-11/9/22	04:00:00.000		Y	-	-						639	919,840	24.00	-	-	-	-	-	-
Thu-11/10/22	04:00:00.000		Y	-	-						638	918,596	24.00	-	-	-	-	-	-
Fri-11/11/22	04:00:00.000		Y	-	-						632	805,967	21.25	-	-	-	-	-	-
Sat-11/12/22	04:00:00.000	(1)		-	-						638	918,697	24.00	-	-	-	-	-	-
Sun-11/13/22	04:00:00.000	(1)		-	-						638	918,708	24.00	-	-	-	-	-	-
Mon-11/14/22	04:00:00.000		Y	-	-						638	918,123	24.00	-	-	-	-	-	-
Tue-11/15/22	04:00:00.000		Y	-	-						638	918,297	24.00	-	-	-	-	-	-
Wed-11/16/22	04:00:00.000		Y	-	-						631	888,359	23.45	-	-	-	-	-	-
Thu-11/17/22	04:00:00.000		Y	-	-						637	917,659	24.00	-	-	-	-	-	-
Fri-11/18/22	04:00:00.000		Y	-	-						607	873,887	24.00	-	-	-	-	-	-
Sat-11/19/22	04:00:00.000	(1)		-	-						637	917,923	24.00	-	-	-	-	-	-
Sun-11/20/22	04:00:00.000	(1)		-	-						637	916,749	24.00	-	-	-	-	-	-
Mon-11/21/22	04:00:00.000		Y	-	-						637	917,561	24.00	-	-	-	-	-	-
Tue-11/22/22	04:00:00.000		Y	-	-						637	917,666	24.00	-	-	-	-	-	-
Wed-11/23/22	04:00:00.000		Y	-	-						637	917,736	24.00	-	-	-	-	-	-
Thu-11/24/22	04:00:00.000		Y	-	-						637	917,627	24.00	-	-	-	-	-	-
Fri-11/25/22	04:00:00.000		Y	-	-						638	918,124	24.00	-	-	-	-	-	-
Sat-11/26/22	04:00:00.000	(1)		-	-						637	917,991	24.00	-	-	-	-	-	-
Sun-11/27/22	04:00:00.000	(1)		-	-						638	918,291	24.00	-	-	-	-	-	-
Mon-11/28/22	04:00:00.000		Y	-	-						638	918,308	24.00	-	-	-	-	-	-
Tue-11/29/22	04:00:00.000		Y	-	-						638	919,244	24.00	-	-	-	-	-	-
Wed-11/30/22	04:00:00.000		Y	-	-						641	923,223	24.00	-	-	-	-	-	-
-	-		Y	-	-						-	-	-	-	-	-	-	-	-
TOTALS												27,427,108	718						

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)	(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
11/1/2022	0.922	*G	*G	5.0	0.430	<50	<0.16	no	no	7.0	7.0	11	
11/2/2022	0.923			6.0	0.410	<50	<0.16	no	yes	7.0	7.0	9.4	30
11/3/2022	0.921			6.4	0.450	<50	<0.16	no	no	7.0	7.0	7.8	
11/4/2022	0.921				0.430	<50	<0.16	no	no	6.9	6.9		
11/5/2022	0.921												
11/6/2022	0.959			5.7								8.4	
11/7/2022	0.921			6.0	0.390	<50	<0.16	yes	yes	6.9	6.9	7.9	50
11/8/2022	0.921			5.6	0.420	<50	<0.16	no	no	6.9	6.9	8.0	
11/9/2022	0.920			5.6	0.390	<50	<0.16	no	yes	6.9	6.9	12	40
11/10/2022	0.919			6.3	0.400	<50	<0.16	no	no	6.9	6.9	8.0	
11/11/2022	0.806				0.400	<50	<0.16	no	no	7.0	7.0		
11/12/2022	0.919												
11/13/2022	0.919			5.5								7.8	
11/14/2022	0.918			5.4	0.380	<50	<0.16	yes	yes	6.9	6.9	<5	40
11/15/2022	0.918			5.4	0.400	<50	<0.16	no	no	6.9	6.9	<5	
11/16/2022	0.888			5.8	0.410	<50	<0.16	no	yes	6.9	6.9	<5	30
11/17/2022	0.918			7.0	0.380	<50	<0.16	no	no	7.0	7.0	5.2	
11/18/2022	0.874				0.400	<50	<0.16	no	no	7.0	7.0		
11/19/2022	0.918												
11/20/2022	0.917			6.8								<5	
11/21/2022	0.918			6.0	0.400	<50	<0.16	yes	yes	7.0	7.0	<5	30
11/22/2022	0.918			5.6	0.400	<50	<0.16	no	no	7.0	7.0	<5	
11/23/2022	0.918			5.9	0.420	<50	<0.16	no	yes	7.0	7.0	5.9	30
11/24/2022	0.918			5.9								5.1	
11/25/2022	0.918			6.0								6.0	
11/26/2022	0.918			6.3								<5	
11/27/2022	0.918			6.2								5.4	
11/28/2022	0.918			6.3	0.400	<50	<0.16	yes	yes	7.0	7.0	8.3	32
11/29/2022	0.919			6.1	0.400	<50	<0.16	no	no	7.0	7.0	6.0	
11/30/2022	0.923			5.3	0.340	<50	<0.16	no	yes	6.9	6.9	6.2	36
Discharged	27.427												
Monthly Avg	0.914			5.9								7.6	

11/24/2022 - 11/25/2022 Thanksgiving holiday was observed.