FLEIS&VANDENBRINK
DESIGN. BUILD. OPERATE.

May 20, 2022

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

Re: Monitoring Report #300
April 1 – April 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 April 1 through April 30, 2022.

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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EXTRACTION DATA

TABLE #1	-	UNIT "D2" UPGRADIENT EXTRACTION DATA
TABLE #2	-	UNIT "D2" DOWNGRADIENT EXTRACTION DATA
TABLE #3	-	CORE AREA EXTRACTION DATA
TABLE #4	-	MARSHY AREA EXTRACTION DATA
TABLE #5	-	SOUTHWEST AREA EXTRACTION DATA
TABLE #6	-	UNIT "E" EXTRACTION DATA
TABLE #7	-	LITTLE LAKE AREA SYSTEM DATA
TABLE #8	-	INDIVIDUAL PURGE WELL CONCENTRATIONS
TABLE #9	-	RED POND DATA
TABLE #10	-	RED POND CONCENTRATIONS

OZONE OPERATION DATA

TABLE #11	-	OZONE OPERATION REPORT

DISCHARGE DATA

TABLE #12	-	GREEN POND / DISCHARGE DATA
TABLE #13	-	DAILY DISCHARGE MONITORING REPORT

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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Apr-22

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
Fri-4/1/22	-		-	-		-	86,768	60	24.00	144,063	100	24.00	160	230,831
Sat-4/2/22	-		-	-		-	86,789	60	24.00	144,087	100	24.00	160	230,876
Sun-4/3/22	-		-	-		-	79,654	59	22.40	143,465	100	24.00	155	223,119
Mon-4/4/22	-		-	-		-	86,765	60	24.00	144,077	100	24.00	160	230,842
Tue-4/5/22	-		-	-		-	86,822	60	24.00	144,186	100	24.00	160	231,008
Wed-4/6/22	-		-	-		-	66,389	46	24.00	144,157	100	24.00	146	210,546
Thu-4/7/22	-		-	-		-	63,741	44	24.00	144,131	100	24.00	144	207,872
Fri-4/8/22	-		-	-		-	72,416	50	24.00	144,129	100	24.00	150	216,545
Sat-4/9/22	-		-	-		-	72,330	50	24.00	144,086	100	24.00	150	216,416
Sun-4/10/22	-		-	-		-	72,407	50	24.00	144,144	100	24.00	150	216,551
Mon-4/11/22	-		-	-		-	72,429	50	24.00	144,209	100	24.00	150	216,638
Tue-4/12/22	-		-	-		-	72,377	50	24.00	144,228	100	24.00	150	216,605
Wed-4/13/22	-		-	-		-	72,355	50	24.00	144,178	100	24.00	150	216,533
Thu-4/14/22	-		-	-		-	72,441	50	24.00	144,200	100	24.00	150	216,641
Fri-4/15/22	-		-	-		-	72,352	50	24.00	144,131	100	24.00	150	216,483
Sat-4/16/22	-		-	-		-	72,395	50	24.00	144,137	100	24.00	150	216,532
Sun-4/17/22	-		-	-		-	72,369	50	24.00	144,091	100	24.00	150	216,460
Mon-4/18/22	-		-	-		-	72,376	50	24.00	144,065	100	24.00	150	216,441
Tue-4/19/22	-		-	-		-	40,280	49	13.62	144,107	100	24.00	128	184,387
Wed-4/20/22	-		-	-		-	-		-	143,452	100	23.90	100	143,452
Thu-4/21/22	-		-	-		-	5,328	50	1.78	143,802	100	24.00	104	149,130
Fri-4/22/22	-		-	-		-	72,420	50	24.00	144,165	100	24.00	150	216,585
Sat-4/23/22	-		-	-		-	72,466	50	24.00	144,292	100	24.00	151	216,758
Sun-4/24/22	-		-	-		-	48,560	50	16.35	103,126	100	17.15	105	151,686
Mon-4/25/22	-		-	-		-	35,229	50	11.85	63,849	100	10.62	69	99,078
Tue-4/26/22	-		-	-		-	72,385	50	24.00	143,724	100	24.00	150	216,109
Wed-4/27/22	-		-	-		-	29,863	49	10.08	143,956	100	24.00	121	173,819
Thu-4/28/22	-		-	-		-	-		-	143,325	100	23.90	100	143,325
Fri-4/29/22	-		-	-		-	-		-	144,200	100	24.00	100	144,200
Sat-4/30/22	-		-	-		-	20,808	50	6.98	144,199	100	24.00	115	165,007
	-		-	-		-	-		-	-		-		
TOTALS	-		-	-		-	1,750,514	52	563.07	4,199,961	100	699.57	138	5,950,475

TOTAL VOLUME EXTRACTED :	5,950,475 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	137.74 GPM

4/3/22 - TW-5 was shut down briefly to control Red Pond level.
4/24/22-4/25/22 - TW-5 and TW-21 were shut down due to a power surge and associated equipment failures.
4/19/22-4/21/22 - TW-5 was shut down to control Red Pond level.
4/27/22-4/30/22 - TW-5 was shut down to control Red Pond level.

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TABLE #2

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Apr-22

Date	LB-1 Gallons	GPM	Run Hrs.	LB-4 Gallons	GPM	Run Hrs.	Daily Flow GPM	Daily Total Gallons
Fri-4/1/22	-		-	144,221	100	24.00	100	144,221
Sat-4/2/22	-		-	144,217	100	24.00	100	144,217
Sun-4/3/22	-		-	144,191	100	24.00	100	144,191
Mon-4/4/22	-		-	144,213	100	24.00	100	144,213
Tue-4/5/22	-		-	144,228	100	24.00	100	144,228
Wed-4/6/22	-		-	144,218	100	24.00	100	144,218
Thu-4/7/22	-		-	144,252	100	24.00	100	144,252
Fri-4/8/22	-		-	144,227	100	24.00	100	144,227
Sat-4/9/22	-		-	144,258	100	24.00	100	144,258
Sun-4/10/22	-		-	144,223	100	24.00	100	144,223
Mon-4/11/22	-		-	144,275	100	24.00	100	144,275
Tue-4/12/22	-		-	144,236	100	24.00	100	144,236
Wed-4/13/22	-		-	144,187	100	24.00	100	144,187
Thu-4/14/22	-		-	144,232	100	24.00	100	144,232
Fri-4/15/22	-		-	144,225	100	24.00	100	144,225
Sat-4/16/22	-		-	144,233	100	24.00	100	144,233
Sun-4/17/22	-		-	144,186	100	24.00	100	144,186
Mon-4/18/22	-		-	144,226	100	24.00	100	144,226
Tue-4/19/22	-		-	144,258	100	24.00	100	144,258
Wed-4/20/22	-		-	144,223	100	24.00	100	144,223
Thu-4/21/22	-		-	144,230	100	24.00	100	144,230
Fri-4/22/22	-		-	144,237	100	24.00	100	144,237
Sat-4/23/22	-		-	144,232	100	24.00	100	144,232
Sun-4/24/22	-		-	103,130	100	17.16	72	103,130
Mon-4/25/22	-		-	64,416	100	10.71	45	64,416
Tue-4/26/22	-		-	144,218	100	24.00	100	144,218
Wed-4/27/22	-		-	144,227	100	24.00	100	144,227
Thu-4/28/22	-		-	144,199	100	24.00	100	144,199
Fri-4/29/22	-		-	144,242	100	24.00	100	144,242
Sat-4/30/22	-		-	144,227	100	24.00	100	144,227
	-		-	-		-		
TOTALS	-		-	4,205,887	100	699.87	97	4,205,887

TOTAL VOLUME EXTRACTED :	4,205,887 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	97.36 GPM

4/24/22-4/25/22 - LB-4 was shut down due to a power surge and associated equipment failures.

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TABLE #3

CORE AREA EXTRACTION DATA

Month of: Apr-22

Core Area Well Extraction																									Daily	Daily
	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			TW-24			TW-25			Flow	Total
Date	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.	GPM	Gallons
Fri-4/1/22	-		-	30,127	21	24.00	-		-	-		-	36,492	25	24.00	-		-	-		-	-		-	46	66,619
Sat-4/2/22	-		-	29,822	21	24.00	-		-	-		-	35,908	25	24.00	-		-	-		-	-		-	46	65,730
Sun-4/3/22	-		-	32,043	22	24.00	-		-	-		-	34,029	25	22.47	-		-	-		-	-		-	46	66,072
Mon-4/4/22	-		-	40,033	28	24.00	-		-	-		-	36,425	25	24.00	-		-	-		-	-		-	53	76,458
Tue-4/5/22	-		-	39,904	28	24.00	-		-	-		-	36,322	25	24.00	-		-	-		-	-		-	53	76,226
Wed-4/6/22	-		-	39,354	27	24.00	-		-	-		-	36,510	25	24.00	-		-	18,756	20	15.82	-		-	66	94,620
Thu-4/7/22	-		-	38,396	27	24.00	-		-	21,003	40	8.73	20,465	25	13.42	31,793	60	8.88	28,659	20	24.00	5,537	10	9.33	101	145,853
Fri-4/8/22	-		-	38,334	27	24.00	-		-	57,418	40	24.00	-		-	86,678	60	24.00	28,450	20	24.00	14,328	10	24.00	156	225,208
Sat-4/9/22	-		-	38,280	27	24.00	-		-	57,594	40	24.00	-		-	86,643	60	24.00	28,739	20	24.00	14,346	10	24.00	157	225,602
Sun-4/10/22	-		-	38,233	27	24.00	-		-	57,625	40	24.00	-		-	86,649	60	24.00	28,645	20	24.00	14,303	10	24.00	157	225,455
Mon-4/11/22	-		-	39,517	27	24.00	-		-	57,775	40	24.00	-		-	86,716	60	24.00	28,756	20	24.00	14,366	10	24.00	158	227,130
Tue-4/12/22	-		-	42,369	29	24.00	-		-	57,779	40	24.00	-		-	86,672	60	24.00	28,636	20	24.00	14,304	10	24.00	160	229,760
Wed-4/13/22	-		-	38,869	27	24.00	-		-	57,747	40	24.00	-		-	86,656	60	24.00	28,813	20	24.00	14,413	10	24.00	157	226,498
Thu-4/14/22	-		-	40,890	28	24.00	-		-	57,650	40	24.00	-		-	86,444	60	24.00	28,598	20	24.00	14,334	10	24.00	158	227,916
Fri-4/15/22	-		-	41,873	29	24.00	-		-	57,778	40	24.00	-		-	57,286	40	24.00	28,570	20	24.00	14,321	10	24.00	139	199,828
Sat-4/16/22	-		-	41,814	29	24.00	-		-	57,794	40	24.00	-		-	43,549	30	24.00	28,593	20	24.00	14,312	10	24.00	129	186,062
Sun-4/17/22	-		-	41,796	29	24.00	-		-	57,844	40	24.00	-		-	43,408	30	24.00	28,511	20	24.00	14,264	10	24.00	129	185,823
Mon-4/18/22	-		-	41,695	29	24.00	-		-	57,772	40	24.00	-		-	43,254	30	24.00	28,708	20	24.00	14,387	10	24.00	129	185,816
Tue-4/19/22	-		-	41,703	29	24.00	-		-	57,554	40	24.00	-		-	43,050	30	24.00	28,667	20	24.00	14,346	10	24.00	129	185,320
Wed-4/20/22	-		-	41,705	29	24.00	-		-	57,299	40	24.00	-		-	43,025	30	24.00	17,746	20	14.92	14,281	10	24.00	121	174,056
Thu-4/21/22	-		-	32,856	23	24.00	-		-	58,155	40	24.00	-		-	43,114	30	24.00	19,346	20	16.23	14,348	10	24.00	117	167,819
Fri-4/22/22	-		-	29,296	20	24.00	-		-	58,132	40	24.00	-		-	43,411	30	24.00	33,572	23	24.00	14,262	10	24.00	124	178,673
Sat-4/23/22	-		-	33,293	23	24.00	-		-	58,132	40	24.00	-		-	43,096	30	24.00	36,337	25	24.00	14,404	10	24.00	129	185,262
Sun-4/24/22	-		-	23,631	23	17.13	-		-	41,625	40	17.18	-		-	30,757	30	17.12	25,955	25	17.12	10,352	10	17.23	92	132,320
Mon-4/25/22	-		-	14,555	23	10.60	-		-	25,549	40	10.62	-		-	19,081	30	10.60	15,886	25	10.62	6,402	10	10.62	57	81,473
Tue-4/26/22	-		-	32,495	23	24.00	-		-	57,625	40	24.00	-		-	43,039	30	24.00	35,748	25	24.00	14,393	10	24.00	127	183,300
Wed-4/27/22	-		-	32,279	22	24.00	-		-	57,273	40	24.00	-		-	43,027	30	24.00	35,716	25	24.00	14,376	10	24.00	127	182,671
Thu-4/28/22	-		-	32,229	22	24.00	-		-	57,340	40	24.00	-		-	43,147	30	24.00	35,902	25	24.00	14,351	10	24.00	127	182,969
Fri-4/29/22	-		-	11,531	23	8.47	-		-	19,927	40	8.38	-		-	15,232	30	8.40	35,915	25	24.00	18,950	13	24.00	71	101,555
Sat-4/30/22	-		-	34,317	24	24.00	-		-	57,592	40	24.00	-		-	43,278	30	24.00	35,927	25	24.00	14,463	10	24.00	129	185,577
	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-		-
TOTALS	-		-	1,053,239	26	684.20	-		-	1,261,982	40	524.92	236,151	25	155.88	1,279,085	40	525.00	719,151	22	554.78	328,143	10	541.18	113	4,877,671

TOTAL VOLUME EXTRACTED :	4,877,671 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	112.91 GPM

4/1/22-4/6/22 - TW-24 was shut down to control Red Pond concentrations.
4/1/22-4/7/22 - TW-10 and TW-20 were shut down to control Red Pond level.
4/3/22 - TW-14 was shut down briefly due to a power outage.
4/7/22 - New extraction well TW-25 was started.
4/7/22-4/30/22 - TW-14 was shut down to control Red Pond concentrations.
4/20/22-4/21/22 - TW-24 was shut down due to a power outage.
4/24/22-4/25/22 - TW-2 (Dolph), TW-10, TW-20, TW-24, and TW-25 were shut down due to a power surge and associated equipment failures.
4/29/22 - TW-2 (Dolph), TW-10, and TW-20 were shut down to control Red Pond level.

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MARSHY AREA EXTRACTION DATA

Month of: Apr-22

Marshy Well Extraction				Daily	Daily
Date	PW-1 Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Fri-4/1/22	-		-		-
Sat-4/2/22	-		-		-
Sun-4/3/22	-		-		-
Mon-4/4/22	-		-		-
Tue-4/5/22	-		-		-
Wed-4/6/22	-		-		-
Thu-4/7/22	-		-		-
Fri-4/8/22	-		-		-
Sat-4/9/22	-		-		-
Sun-4/10/22	-		-		-
Mon-4/11/22	-		-		-
Tue-4/12/22	-		-		-
Wed-4/13/22	-		-		-
Thu-4/14/22	-		-		-
Fri-4/15/22	-		-		-
Sat-4/16/22	-		-		-
Sun-4/17/22	-		-		-
Mon-4/18/22	-		-		-
Tue-4/19/22	-		-		-
Wed-4/20/22	-		-		-
Thu-4/21/22	-		-		-
Fri-4/22/22	-		-		-
Sat-4/23/22	-		-		-
Sun-4/24/22	-		-		-
Mon-4/25/22	-		-		-
Tue-4/26/22	-		-		-
Wed-4/27/22	-		-		-
Thu-4/28/22	-		-		-
Fri-4/29/22	-		-		-
Sat-4/30/22	-		-		-
	-		-		-
TOTALS	-		-		-

TOTAL VOLUME EXTRACTED :	0 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	0.00 GPM

4/1/22-4/30/22 - PW-1 was shut down due to pump failure.

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TABLE #5

SOUTHWEST AREA EXTRACTION DATA

Month of: Apr-22

SouthWest Well Extraction							Daily	Daily
	TW22			TW28			Flow	Total
Date	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Fri-4/1/22	2,698	2	24.00	36,090	25	24.00	27	38,788
Sat-4/2/22	2,694	2	24.00	36,090	25	24.00	27	38,784
Sun-4/3/22	2,478	2	22.45	33,756	25	22.45	27	36,234
Mon-4/4/22	2,575	2	24.00	36,015	25	24.00	27	38,590
Tue-4/5/22	2,600	2	24.00	35,992	25	24.00	27	38,592
Wed-4/6/22	2,605	2	24.00	35,974	25	24.00	27	38,579
Thu-4/7/22	2,600	2	24.00	35,930	25	24.00	27	38,530
Fri-4/8/22	2,603	2	24.00	35,866	25	24.00	27	38,469
Sat-4/9/22	2,614	2	24.00	35,806	25	24.00	27	38,420
Sun-4/10/22	2,912	2	24.00	36,026	25	24.00	27	38,938
Mon-4/11/22	1,819	2	13.52	36,201	25	24.00	27	38,020
Tue-4/12/22	2,028	2	16.03	36,026	25	24.00	27	38,054
Wed-4/13/22	3,260	2	24.00	35,815	25	24.00	27	39,075
Thu-4/14/22	2,570	2	24.00	36,129	25	24.00	27	38,699
Fri-4/15/22	2,555	2	24.00	36,133	25	24.00	27	38,688
Sat-4/16/22	2,524	2	24.00	36,056	25	24.00	27	38,580
Sun-4/17/22	2,524	2	24.00	36,020	25	24.00	27	38,544
Mon-4/18/22	2,778	2	24.00	36,064	25	24.00	27	38,842
Tue-4/19/22	3,064	2	24.00	36,021	25	24.00	27	39,085
Wed-4/20/22	2,878	2	24.00	35,978	25	24.00	27	38,856
Thu-4/21/22	2,547	2	24.00	35,875	25	24.00	27	38,422
Fri-4/22/22	2,534	2	24.00	35,790	25	24.00	27	38,324
Sat-4/23/22	2,533	2	24.00	35,805	25	24.00	27	38,338
Sun-4/24/22	1,800	2	17.12	25,535	25	17.12	27	27,335
Mon-4/25/22	1,133	2	10.60	15,992	25	10.62	27	17,125
Tue-4/26/22	2,535	2	24.00	36,103	25	24.00	27	38,638
Wed-4/27/22	2,531	2	24.00	36,092	25	24.00	27	38,623
Thu-4/28/22	2,696	2	24.00	36,098	25	24.00	27	38,794
Fri-4/29/22	2,957	2	24.00	36,124	25	24.00	27	39,081
Sat-4/30/22	2,984	2	24.00	36,223	25	24.00	27	39,207
	-	0	-	-	0	-	0	
TOTALS	76,629	2	679.72	1,047,625	24	698.18	26	1,124,254

TOTAL VOLUME EXTRACTED :	1,124,254 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	26.02 GPM

4/3/22 - TW-22 and TW-28 were shut down briefly due to a power outage.
4/11/22-4/12/22 - TW-22 was shut down due to flows dropping below detectable levels during/after sampling.
4/24/22-4/25/22 - TW-22 and TW-28 were shut down due to a power surge and associated equipment failures.

GelmanSciences

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Apr-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
Fri-4/1/22	-		-	93,772	65	24.00	146,542	102	24.00	71,834	50	24.00	72,197	50	24.00	267	384,345
Sat-4/2/22	-		-	93,808	65	24.00	146,530	102	24.00	71,864	50	24.00	72,266	50	24.00	267	384,468
Sun-4/3/22	-		-	87,747	65	22.47	145,328	102	23.80	71,413	50	23.83	71,847	50	23.83	261	376,335
Mon-4/4/22	-		-	93,794	65	24.00	146,569	102	24.00	71,868	50	24.00	72,197	50	24.00	267	384,428
Tue-4/5/22	-		-	93,815	65	24.00	146,618	102	24.00	71,850	50	24.00	72,319	50	24.00	267	384,602
Wed-4/6/22	-		-	93,849	65	24.00	146,552	102	24.00	71,854	50	24.00	72,314	50	24.00	267	384,569
Thu-4/7/22	-		-	53,082	65	13.58	146,554	102	24.00	71,877	50	24.00	72,271	50	24.00	239	343,784
Fri-4/8/22	-		-	-		-	146,536	102	24.00	71,883	50	24.00	72,261	50	24.00	202	290,680
Sat-4/9/22	-		-	-		-	146,546	102	24.00	71,900	50	24.00	72,211	50	24.00	202	290,657
Sun-4/10/22	-		-	-		-	146,572	102	24.00	71,922	50	24.00	72,217	50	24.00	202	290,711
Mon-4/11/22	-		-	-		-	159,906	111	24.00	71,790	50	24.00	72,143	50	24.00	211	303,839
Tue-4/12/22	-		-	12,216	20	10.08	159,219	111	24.00	71,822	50	24.00	72,235	50	24.00	219	315,492
Wed-4/13/22	-		-	28,991	20	24.00	146,511	102	24.00	71,595	50	24.00	71,965	50	24.00	222	319,062
Thu-4/14/22	-		-	28,776	20	24.00	146,585	102	24.00	71,851	50	24.00	72,129	50	24.00	222	319,341
Fri-4/15/22	-		-	29,041	20	24.00	146,519	102	24.00	71,886	50	24.00	72,206	50	24.00	222	319,652
Sat-4/16/22	-		-	29,014	20	24.00	146,496	102	24.00	71,917	50	24.00	72,182	50	24.00	222	319,609
Sun-4/17/22	-		-	29,036	20	24.00	146,465	102	24.00	71,918	50	24.00	72,150	50	24.00	222	319,569
Mon-4/18/22	-		-	29,137	20	24.00	146,457	102	24.00	71,138	50	23.70	71,319	50	23.70	221	318,051
Tue-4/19/22	-		-	28,895	20	24.00	146,461	102	24.00	71,956	50	24.00	72,346	50	24.00	222	319,658
Wed-4/20/22	-		-	28,701	20	24.00	145,745	101	24.00	71,956	50	24.00	72,269	50	24.00	221	318,671
Thu-4/21/22	-		-	29,078	20	24.00	146,023	101	24.00	71,458	50	23.86	71,743	50	23.86	221	318,302
Fri-4/22/22	-		-	33,872	24	24.00	146,452	102	24.00	71,841	50	24.00	72,135	50	24.00	225	324,300
Sat-4/23/22	-		-	36,260	25	24.00	146,515	102	24.00	71,924	50	24.00	72,134	50	24.00	227	326,833
Sun-4/24/22	-		-	25,784	25	17.13	104,709	102	17.15	51,384	50	17.15	51,586	50	17.15	162	233,463
Mon-4/25/22	-		-	15,951	25	10.62	64,799	102	10.62	32,083	50	10.70	32,046	50	10.65	101	144,879
Tue-4/26/22	-		-	35,917	25	24.00	146,019	101	24.00	71,880	50	24.00	72,191	50	24.00	226	326,007
Wed-4/27/22	-		-	36,153	25	24.00	146,440	102	24.00	71,731	50	23.86	71,914	50	23.86	227	326,238
Thu-4/28/22	-		-	36,136	25	24.00	145,616	102	23.87	71,623	50	23.83	71,712	50	23.83	226	325,087
Fri-4/29/22	-		-	10,764	25	7.12	146,492	102	24.00	71,837	50	24.00	72,131	50	24.00	209	301,224
Sat-4/30/22	-		-	20,188	25	13.45	146,488	102	24.00	72,056	50	24.00	72,214	50	24.00	216	310,946
	-		-	-		-	-		-	-		-	-		-		
TOTALS	-		-	1,133,777	34	550.45	4,294,264	102	699.43	2,093,911	50	698.93	2,102,850	50	698.88	223	9,624,802

TOTAL VOLUME EXTRACTED :	9,624,802 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	222.80 GPM

4/3/22 - TW-17 was shut down briefly to control Red Pond level.
4/7/22-4/11/22 - TW-17 was shut down to control Red Pond level.
4/24/22-4/25/22 - TW-17, TW-18, TW-29, and TW-23 were shut down due to a power surge and associated equipment failures.
4/29/22-4/30/22 - TW-17 was shut down to control Red Pond level.

GelmanSciences

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
01/12/22	54
02/10/22	43
03/14/22	39
04/22/22	36

GelmanSciences

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-04-18-22-12:25-1	04/18/22	130
TW-10-04-18-22-12:10-1	04/18/22	970
TW-20-04-18-22-12:05-1	04/18/22	560
TW-24-04-29-22-12:25-1	04/29/22	2500
TW-25-04-07-22-15:00-1	04/07/22	4000
TW-25-04-18-22-12:00-1	04/18/22	4000
LB-4-04-18-22-10:05-1	04/18/22	450
TW-21-04-18-22-10:30-1	04/18/22	240
TW-5-04-18-22-11:45-1	04/18/22	760
TW-17-04-18-22-11:55-1	04/18/22	59
TW-18-04-18-22-10:35-1	04/18/22	250
TW-23-04-18-22-10:10-1	04/18/22	420
TW-29-04-18-22-10:15-1	04/18/22	330
TW-22-04-18-22-12:15-1	04/18/22	420
TW-28-04-18-22-12:20-1	04/18/22	450

GelmanSciences

TABLE #9

RED POND DATA

Month of: Apr-22

Date	Time	Notes	Red Pond Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Fri-4/1/22	04:00:00.000		Y	4.6	-	24.00	601
Sat-4/2/22	04:00:00.000	(1)		4.3	-	24.00	600
Sun-4/3/22	04:00:00.000	(1)		5.0	-	24.00	588
Mon-4/4/22	04:00:00.000		Y	4.7	-	24.00	608
Tue-4/5/22	04:00:00.000		Y	4.5	-	24.00	608
Wed-4/6/22	04:00:00.000		Y	4.3	-	24.00	606
Thu-4/7/22	04:00:00.000		Y	4.0	-	24.00	611
Fri-4/8/22	04:00:00.000		Y	4.0	-	24.00	636
Sat-4/9/22	04:00:00.000	(1)		4.0	-	24.00	636
Sun-4/10/22	04:00:00.000	(1)		4.0	-	24.00	636
Mon-4/11/22	04:00:00.000		Y	4.1	-	24.00	646
Tue-4/12/22	04:00:00.000		Y	4.4	-	24.00	656
Wed-4/13/22	04:00:00.000		Y	4.7	-	24.00	656
Thu-4/14/22	04:00:00.000		Y	5.0	-	24.00	658
Fri-4/15/22	04:00:00.000		Y	5.8	-	24.00	638
Sat-4/16/22	04:00:00.000	(1)		5.8	-	24.00	628
Sun-4/17/22	04:00:00.000	(1)		5.6	-	24.00	628
Mon-4/18/22	04:00:00.000		Y	5.5	-	24.00	627
Tue-4/19/22	04:00:00.000		Y	5.1	-	24.00	606
Wed-4/20/22	04:00:00.000		Y	5.2	-	24.00	569
Thu-4/21/22	04:00:00.000		Y	4.5	-	24.00	568
Fri-4/22/22	04:00:00.000		Y	4.5	-	24.00	626
Sat-4/23/22	04:00:00.000	(1)		4.4	-	24.00	633
Sun-4/24/22	04:00:00.000	(1)		5.3	-	17.18	628
Mon-4/25/22	04:00:00.000		Y	5.4	-	11.85	572
Tue-4/26/22	04:00:00.000		Y	5.4	-	24.00	631
Wed-4/27/22	04:00:00.000		Y	4.9	-	24.00	601
Thu-4/28/22	04:00:00.000		Y	6.0	-	24.00	579
Fri-4/29/22	04:00:00.000		Y	4.6	-	24.00	507
Sat-4/30/22	04:00:00.000	(1)		4.0	-	24.00	587
-			-	-	-	-	-
		TOTALS	-		-	701	

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.

GelmanSciences

TABLE #10

RED POND CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-04-01-22-09:00-1	4/1/2022	400
Red Pond-04-04-22-06:40-1	4/4/2022	360
Red Pond-04-05-22-07:35-1	4/5/2022	360
Red Pond-04-06-22-07:55-1	4/6/2022	420
Red Pond-04-07-22-07:00-1	4/7/2022	580
Red Pond-04-08-22-07:20-1	4/8/2022	530
Red Pond-04-11-22-07:20-1	4/11/2022	590
Red Pond-04-12-22-07:05-1	4/12/2022	530
Red Pond-04-13-22-07:15-1	4/13/2022	470
Red Pond-04-14-22-07:35-1	4/14/2022	520
Red Pond-04-15-22-07:33-1	4/15/2022	520
Red Pond-04-18-22-07:10-1	4/18/2022	480
Red Pond-04-19-22-09:05-1	4/19/2022	510
Red Pond-04-20-22-07:10-1	4/20/2022	490
Red Pond-04-21-22-07:20-1	4/21/2022	360
Red Pond-04-22-22-07:10-1	4/22/2022	560
Red Pond-04-26-22-07:20-1	4/26/2022	450
Red Pond-04-27-22-07:15-1	4/27/2022	550
Red Pond-04-28-22-07:25-1	4/28/2022	510
Red Pond-04-29-22-07:35-1	4/29/2022	420

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

GelmanSciences

TABLE #11

OZONE OPERATION REPORT

Month of: Apr-22

			SYSTEM-1A		SYSTEM-1B		SYSTEM-2A		SYSTEM-2B	
Date	Time	Notes	Flow GPM	Run Hours	Flow GPM	Run Hours	Flow GPM	Run Hours	Flow GPM	Run Hours
Fri-4/1/22	04:00:00.000		241	24.00	0	0.00	381	24.00	0	0.00
Sat-4/2/22	04:00:00.000	(1)	240	24.00	0	0.00	379	24.00	0	0.00
Sun-4/3/22	04:00:00.000	(1)	241	21.33	0	0.00	380	20.98	0	0.00
Mon-4/4/22	04:00:00.000		240	24.00	0	0.00	379	24.00	0	0.00
Tue-4/5/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Wed-4/6/22	04:00:00.000		241	24.00	0	0.00	379	24.00	0	0.00
Thu-4/7/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Fri-4/8/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Sat-4/9/22	04:00:00.000	(1)	241	24.00	0	0.00	380	24.00	0	0.00
Sun-4/10/22	04:00:00.000	(1)	240	24.00	0	0.00	379	24.00	0	0.00
Mon-4/11/22	04:00:00.000		241	24.00	0	0.00	381	24.00	0	0.00
Tue-4/12/22	04:00:00.000		240	24.00	0	0.00	382	24.00	0	0.00
Wed-4/13/22	04:00:00.000		240	23.88	0	0.00	381	23.80	0	0.00
Thu-4/14/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Fri-4/15/22	04:00:00.000		240	21.85	0	0.00	381	21.77	0	0.00
Sat-4/16/22	04:00:00.000	(1)	240	24.00	0	0.00	380	24.00	0	0.00
Sun-4/17/22	04:00:00.000	(1)	240	24.00	0	0.00	381	24.00	0	0.00
Mon-4/18/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Tue-4/19/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Wed-4/20/22	04:00:00.000		240	19.58	0	0.00	379	21.75	0	0.00
Thu-4/21/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Fri-4/22/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Sat-4/23/22	04:00:00.000	(1)	240	24.00	0	0.00	381	24.00	0	0.00
Sun-4/24/22	04:00:00.000	(1)	1	14.73	0	0.00	0	13.72	0	0.00
Mon-4/25/22	04:00:00.000		240	10.70	0	0.00	379	11.72	0	0.00
Tue-4/26/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Wed-4/27/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Thu-4/28/22	04:00:00.000		240	21.93	0	0.00	380	18.32	0	0.00
Fri-4/29/22	04:00:00.000		240	23.92	0	0.00	380	23.60	0	0.00
Sat-4/30/22	04:00:00.000	(1)	240	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.

4/3/22 - Treatment System was shut down briefly due to a power outage.
4/15/22 - Treatment System was shut down briefly for system maintenance.
4/20/22 - Treatment System was shut down briefly for system maintenance.
4/24/22-4/25/22 -Treatment System was shut down due to a power surge and associated equipment failures.
4/28/22 - Treatment System was shut down briefly for system maintenance.

GelmanSciences

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: Apr-22

			Green Pond																
			Pond	Level	Aeration	Influent	Influent	Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
Date	Time	Notes	Visual Chk	Feet	Hours	Hours	GPM	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours
Fri-4/1/22	04:00:00.000		Y	-	-						642	925,122	24.00	-	-	-	-	-	-
Sat-4/2/22	04:00:00.000	(1)		-	-						642	925,139	24.00	-	-	-	-	-	-
Sun-4/3/22	04:00:00.000	(1)		-	-						638	807,997	21.12	-	-	-	-	-	-
Mon-4/4/22	04:00:00.000		Y	-	-						642	924,922	24.00	-	-	-	-	-	-
Tue-4/5/22	04:00:00.000		Y	-	-						642	925,041	24.00	-	-	-	-	-	-
Wed-4/6/22	04:00:00.000		Y	-	-						642	924,871	24.00	-	-	-	-	-	-
Thu-4/7/22	04:00:00.000		Y	-	-						642	924,493	24.00	-	-	-	-	-	-
Fri-4/8/22	04:00:00.000		Y	-	-						642	924,573	24.00	-	-	-	-	-	-
Sat-4/9/22	04:00:00.000	(1)		-	-						642	924,415	24.00	-	-	-	-	-	-
Sun-4/10/22	04:00:00.000	(1)		-	-						642	924,366	24.00	-	-	-	-	-	-
Mon-4/11/22	04:00:00.000		Y	-	-						642	924,733	24.00	-	-	-	-	-	-
Tue-4/12/22	04:00:00.000		Y	-	-						642	924,928	24.00	-	-	-	-	-	-
Wed-4/13/22	04:00:00.000		Y	-	-						637	916,607	24.00	-	-	-	-	-	-
Thu-4/14/22	04:00:00.000		Y	-	-						643	925,885	24.00	-	-	-	-	-	-
Fri-4/15/22	04:00:00.000		Y	-	-						640	838,290	21.82	-	-	-	-	-	-
Sat-4/16/22	04:00:00.000	(1)		-	-						643	925,313	24.00	-	-	-	-	-	-
Sun-4/17/22	04:00:00.000	(1)		-	-						642	924,889	24.00	-	-	-	-	-	-
Mon-4/18/22	04:00:00.000		Y	-	-						642	925,025	24.00	-	-	-	-	-	-
Tue-4/19/22	04:00:00.000		Y	-	-						642	925,036	24.00	-	-	-	-	-	-
Wed-4/20/22	04:00:00.000		Y	-	-						605	800,465	22.03	-	-	-	-	-	-
Thu-4/21/22	04:00:00.000		Y	-	-						642	925,036	24.00	-	-	-	-	-	-
Fri-4/22/22	04:00:00.000		Y	-	-						642	925,111	24.00	-	-	-	-	-	-
Sat-4/23/22	04:00:00.000	(1)		-	-						643	925,605	24.00	-	-	-	-	-	-
Sun-4/24/22	04:00:00.000	(1)		-	-						641	570,131	14.82	-	-	-	-	-	-
Mon-4/25/22	04:00:00.000		Y	-	-						643	407,454	10.57	-	-	-	-	-	-
Tue-4/26/22	04:00:00.000		Y	-	-						643	925,514	24.00	-	-	-	-	-	-
Wed-4/27/22	04:00:00.000		Y	-	-						642	925,095	24.00	-	-	-	-	-	-
Thu-4/28/22	04:00:00.000		Y	-	-						610	710,815	19.42	-	-	-	-	-	-
Fri-4/29/22	04:00:00.000		Y	-	-						634	912,915	24.00	-	-	-	-	-	-
Sat-4/30/22	04:00:00.000	(1)		-	-						643	925,298	24.00	-	-	-	-	-	-
-				-	-							-	-	-	-	-	-	-	-
		TOTALS			-	-			-	-		26,315,084	686		-	-		-	-

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.

GelmanSciences

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
4/1/2022	0.925				0.400	<50	<0.16	No	No	6.9	6.9		
4/2/2022	0.925												
4/3/2022	0.808			6								6.2	
4/4/2022	0.925			6	0.360	<50	<0.16	Yes	Yes	6.9	6.9	8.0	54
4/5/2022	0.925			5	0.360	<50	<0.16	No	No	6.9	6.9	7.2	
4/6/2022	0.925			5	0.420	<50	<0.16	No	Yes	6.9	6.9	8.8	38
4/7/2022	0.924			5	0.580	<50	<0.16	No	No	6.9	6.9	7.4	
4/8/2022	0.925				0.530	<50	<0.16	No	No	7.0	7.0		
4/9/2022	0.924	160	1.234										
4/10/2022	0.924			8								11	
4/11/2022	0.925			8	0.590	<50	<0.16	Yes	Yes	6.9	6.9	8.4	58
4/12/2022	0.925			7	0.530	<50	<0.16	No	No	6.8	6.8	8.0	
4/13/2022	0.917			7	0.470	<50	<0.16	No	Yes	6.8	6.8	7.2	42
4/14/2022	0.926			8	0.520	<50	<0.16	No	No	6.9	6.9	8.3	
4/15/2022	0.838				0.520	<50	<0.16	No	No	6.8	6.8		
4/16/2022	0.925												
4/17/2022	0.925			6								8.2	
4/18/2022	0.925			6	0.480	<50	<0.16	Yes	Yes	6.9	6.9	11	40
4/19/2022	0.925			5	0.510	<50	<0.16	No	No	6.9	6.9	11	
4/20/2022	0.800			6	0.490	<50	<0.16	No	Yes	6.9	6.9	12	38
4/21/2022	0.925			5	0.360	<50	<0.16	No	No	6.9	6.9	10	
4/22/2022	0.925				0.560	<50	<0.16	No	No	6.9	6.9		
4/23/2022	0.926												
4/24/2022	0.570			6								8.8	
4/25/2022	0.407			5		<50	<0.16	Yes	Yes	6.9	6.9	10	56
4/26/2022	0.926			6	0.450	<50	<0.16	No	No	6.9	6.9	11	
4/27/2022	0.925			5	0.550	<50	<0.16	No	Yes	6.9	6.9	13	36
4/28/2022	0.711			7	0.510	<50	<0.16	No	No	6.9	6.9	13	
4/29/2022	0.913				0.420	<50	<0.16	No	No	7.0	7.0		
4/30/2022	0.925												
Discharged	**26.315**												
Monthly Avg	**0.877**			**6.1**								**9.4**	