



March 20, 2022

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

**Re: Monitoring Report #298
February 1 – February 28, 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 February 1 through February 28, 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 blue ink, appearing to read "Jim Brode", is written over a faint, larger version of the company logo.

Jim Brode, CPG
Senior Project Manager

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

EXTRACTION DATA

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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Feb-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
Tue-2/1/22	-	-	-	-	-	-	-	-	-	141,712	100	23.62	98	141,712
Wed-2/2/22	-	-	-	-	-	-	-	-	-	144,033	100	24.00	100	144,033
Thu-2/3/22	-	-	-	-	-	-	-	-	-	143,965	100	24.00	100	143,965
Fri-2/4/22	-	-	-	-	-	-	-	-	-	143,294	100	23.90	100	143,294
Sat-2/5/22	-	-	-	-	-	-	-	-	-	143,298	100	23.92	100	143,298
Sun-2/6/22	-	-	-	-	-	-	-	-	-	143,958	100	24.00	100	143,958
Mon-2/7/22	-	-	-	-	-	-	-	-	-	143,995	100	24.00	100	143,995
Tue-2/8/22	-	-	-	-	-	-	-	-	-	144,004	100	24.00	100	144,004
Wed-2/9/22	-	-	-	-	-	-	-	-	-	144,076	100	24.00	100	144,076
Thu-2/10/22	-	-	-	-	-	-	-	-	-	144,028	100	24.00	100	144,028
Fri-2/11/22	-	-	-	-	-	-	-	-	-	144,035	100	24.00	100	144,035
Sat-2/12/22	-	-	-	-	-	-	-	-	-	143,992	100	24.00	100	143,992
Sun-2/13/22	-	-	-	-	-	-	-	-	-	143,945	100	24.00	100	143,945
Mon-2/14/22	-	-	-	-	-	-	-	-	-	143,951	100	24.00	100	143,951
Tue-2/15/22	-	-	-	-	-	-	-	-	-	143,996	100	24.00	100	143,996
Wed-2/16/22	-	-	-	-	-	-	-	-	-	144,075	100	24.00	100	144,075
Thu-2/17/22	-	-	-	-	-	-	-	-	-	144,052	100	24.00	100	144,052
Fri-2/18/22	-	-	-	-	-	-	-	-	-	143,993	100	24.00	100	143,993
Sat-2/19/22	-	-	-	853	10	1.48	-	-	-	142,578	100	23.80	100	143,431
Sun-2/20/22	-	-	-	-	-	-	-	-	-	144,006	100	24.00	100	144,006
Mon-2/21/22	-	-	-	-	-	-	-	-	-	144,110	100	24.00	100	144,110
Tue-2/22/22	-	-	-	-	-	-	-	-	-	144,118	100	24.00	100	144,118
Wed-2/23/22	-	-	-	-	-	-	-	-	-	143,295	100	23.88	100	143,295
Thu-2/24/22	-	-	-	-	-	-	-	-	-	144,043	100	24.00	100	144,043
Fri-2/25/22	-	-	-	-	-	-	-	-	-	144,024	100	24.00	100	144,024
Sat-2/26/22	-	-	-	-	-	-	-	-	-	142,994	100	23.85	99	142,994
Sun-2/27/22	-	-	-	-	-	-	-	-	-	144,039	100	24.00	100	144,039
Mon-2/28/22	-	-	-	-	-	-	-	-	-	144,036	100	24.00	100	144,036
TOTALS	-	-	-	853	10	1.48	-	-	-	4,025,645	100	670.97	100	4,026,498

TOTAL VOLUME EXTRACTED :	4,026,498 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	90.20 GPM

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Feb-22

Date	LB-1			LB-4			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-2/1/22	-		-	144,213	100	24.00	100	144,213
Wed-2/2/22	-		-	144,206	100	24.00	100	144,206
Thu-2/3/22	-		-	144,190	100	24.00	100	144,190
Fri-2/4/22	-		-	144,233	100	24.00	100	144,233
Sat-2/5/22	-		-	144,241	100	24.00	100	144,241
Sun-2/6/22	-		-	144,229	100	24.00	100	144,229
Mon-2/7/22	-		-	144,231	100	24.00	100	144,231
Tue-2/8/22	-		-	144,219	100	24.00	100	144,219
Wed-2/9/22	-		-	144,237	100	24.00	100	144,237
Thu-2/10/22	-		-	144,227	100	24.00	100	144,227
Fri-2/11/22	-		-	144,221	100	24.00	100	144,221
Sat-2/12/22	-		-	144,223	100	24.00	100	144,223
Sun-2/13/22	-		-	144,181	100	24.00	100	144,181
Mon-2/14/22	-		-	144,254	100	24.00	100	144,254
Tue-2/15/22	-		-	144,217	100	24.00	100	144,217
Wed-2/16/22	-		-	144,207	100	24.00	100	144,207
Thu-2/17/22	-		-	144,244	100	24.00	100	144,244
Fri-2/18/22	-		-	144,197	100	24.00	100	144,197
Sat-2/19/22	-		-	144,231	100	24.00	100	144,231
Sun-2/20/22	-		-	144,220	100	24.00	100	144,220
Mon-2/21/22	-		-	144,233	100	24.00	100	144,233
Tue-2/22/22	-		-	144,203	100	24.00	100	144,203
Wed-2/23/22	-		-	144,246	100	24.00	100	144,246
Thu-2/24/22	-		-	144,219	100	24.00	100	144,219
Fri-2/25/22	-		-	144,228	100	24.00	100	144,228
Sat-2/26/22	-		-	144,238	100	24.00	100	144,238
Sun-2/27/22	-		-	144,202	100	24.00	100	144,202
Mon-2/28/22	-		-	144,233	100	24.00	100	144,233
TOTALS	-		-	4,038,223	100	672.00	100	4,038,223

TOTAL VOLUME EXTRACTED :	4,038,223 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	90.46 GPM

TABLE #3
CORE AREA EXTRACTION DATA

Month of: Feb-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			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.		
Tue-2/1/22	-	-	-	39,685	28	23.63	-	-	-	36,065	25	24.00	50,373	35	24.00	43,198	30	24.00	14,128	10	24.00	127	183,449
Wed-2/2/22	-	-	-	43,046	30	24.00	-	-	-	36,105	25	24.00	50,456	35	24.00	43,249	30	24.00	14,013	10	24.00	130	186,869
Thu-2/3/22	-	-	-	38,999	27	24.00	-	-	-	36,124	25	24.00	50,427	35	24.00	43,215	30	24.00	13,885	10	24.00	127	182,650
Fri-2/4/22	-	-	-	37,115	26	24.00	-	-	-	36,133	25	24.00	50,216	35	24.00	43,192	30	24.00	14,011	10	24.00	125	180,667
Sat-2/5/22	-	-	-	37,138	26	24.00	-	-	-	36,142	25	24.00	50,007	35	24.00	43,134	30	24.00	13,909	10	24.00	125	180,330
Sun-2/6/22	-	-	-	37,131	26	24.00	-	-	-	36,153	25	24.00	50,265	35	24.00	43,123	30	24.00	14,077	10	24.00	126	180,749
Mon-2/7/22	-	-	-	37,101	26	24.00	-	-	-	36,175	25	24.00	51,027	35	24.00	43,123	30	24.00	14,128	10	24.00	126	181,554
Tue-2/8/22	-	-	-	37,085	26	24.00	-	-	-	36,182	25	24.00	51,249	36	24.00	43,107	30	24.00	14,129	10	24.00	126	181,752
Wed-2/9/22	-	-	-	37,088	26	24.00	-	-	-	36,200	25	24.00	51,117	35	24.00	43,128	30	24.00	14,235	10	24.00	126	181,768
Thu-2/10/22	-	-	-	37,087	26	24.00	-	-	-	36,193	25	24.00	50,379	35	24.00	43,354	30	24.00	14,044	10	24.00	126	181,057
Fri-2/11/22	-	-	-	37,094	26	24.00	-	-	-	36,228	25	24.00	49,984	35	24.00	43,440	30	24.00	14,165	10	24.00	126	180,911
Sat-2/12/22	-	-	-	37,086	26	24.00	-	-	-	36,206	25	24.00	50,172	35	24.00	43,405	30	24.00	14,114	10	24.00	126	180,983
Sun-2/13/22	-	-	-	37,096	26	24.00	-	-	-	36,211	25	24.00	50,066	35	24.00	43,384	30	24.00	14,353	10	24.00	126	181,110
Mon-2/14/22	-	-	-	37,091	26	24.00	-	-	-	36,227	25	24.00	50,094	35	24.00	43,378	30	24.00	14,361	10	24.00	126	181,151
Tue-2/15/22	-	-	-	37,089	26	24.00	-	-	-	36,281	25	24.00	49,767	35	24.00	43,390	30	24.00	14,328	10	24.00	126	180,855
Wed-2/16/22	-	-	-	37,054	26	24.00	-	-	-	36,327	25	24.00	49,628	34	24.00	43,440	30	24.00	17,649	12	24.00	128	184,098
Thu-2/17/22	-	-	-	37,016	26	24.00	-	-	-	36,408	25	24.00	50,278	35	24.00	43,474	30	24.00	21,379	15	24.00	131	188,555
Fri-2/18/22	-	-	-	37,070	26	24.00	-	-	-	36,236	25	24.00	49,945	35	24.00	43,493	30	24.00	16,881	12	24.00	128	183,625
Sat-2/19/22	-	-	-	37,074	26	24.00	-	-	-	36,097	25	24.00	50,520	35	24.00	43,494	30	24.00	14,167	10	24.00	126	181,352
Sun-2/20/22	-	-	-	37,068	26	24.00	-	-	-	36,086	25	24.00	50,758	35	24.00	43,478	30	24.00	14,425	10	24.00	126	181,815
Mon-2/21/22	-	-	-	36,957	26	24.00	-	-	-	36,072	25	24.00	51,050	35	24.00	43,487	30	24.00	14,033	10	24.00	126	181,599
Tue-2/22/22	-	-	-	36,973	26	24.00	-	-	-	36,133	25	24.00	50,957	35	24.00	43,535	30	24.00	19,130	13	24.00	130	186,728
Wed-2/23/22	-	-	-	42,160	30	23.77	-	-	-	34,952	24	24.00	50,689	35	24.00	40,502	28	24.00	16,513	11	24.00	128	184,816
Thu-2/24/22	-	-	-	41,169	29	24.00	-	-	-	34,896	24	24.00	45,722	32	24.00	40,990	28	24.00	14,326	10	24.00	123	177,103
Fri-2/25/22	-	-	-	38,335	27	24.00	-	-	-	35,069	24	24.00	42,941	30	24.00	43,378	30	24.00	14,410	10	24.00	121	174,133
Sat-2/26/22	-	-	-	38,328	27	24.00	-	-	-	36,055	25	24.00	43,379	30	24.00	43,414	30	24.00	27,671	19	24.00	131	188,847
Sun-2/27/22	-	-	-	38,299	27	24.00	-	-	-	35,539	25	24.00	42,561	30	24.00	43,513	30	24.00	36,173	25	24.00	136	196,085
Mon-2/28/22	-	-	-	38,274	27	24.00	-	-	-	35,417	25	24.00	42,515	30	24.00	43,512	30	24.00	36,108	25	24.00	136	195,826
TOTALS	-	-	-	1,062,708	26	671.40	-	-	-	1,007,912	25	672.00	1,376,542	34	672.00	1,208,530	30	672.00	474,745	12	672.00	127	5,130,437

TOTAL VOLUME EXTRACTED : 5,130,437 GALLONS

DAYS IN MONTH : 31 DAYS

MONTHLY AVERAGE FLOW RATE : 114.93 GPM

MARSHY AREA EXTRACTION DATA

Month of: Feb-22

Marshy Well Extraction				Daily Flow GPM	Daily Total Gallons
Date	PW-1 Gallons	GPM	Run Hrs.		
Tue-2/1/22	3,425	2	24.00	2	3,425
Wed-2/2/22	3,431	2	24.00	2	3,431
Thu-2/3/22	3,496	2	24.00	2	3,496
Fri-2/4/22	3,466	2	24.00	2	3,466
Sat-2/5/22	3,430	2	24.00	2	3,430
Sun-2/6/22	3,450	2	24.00	2	3,450
Mon-2/7/22	3,410	2	24.00	2	3,410
Tue-2/8/22	3,413	2	24.00	2	3,413
Wed-2/9/22	3,406	2	24.00	2	3,406
Thu-2/10/22	3,410	2	24.00	2	3,410
Fri-2/11/22	3,431	2	24.00	2	3,431
Sat-2/12/22	3,471	2	24.00	2	3,471
Sun-2/13/22	3,477	2	24.00	2	3,477
Mon-2/14/22	3,487	2	24.00	2	3,487
Tue-2/15/22	3,474	2	24.00	2	3,474
Wed-2/16/22	3,451	2	24.00	2	3,451
Thu-2/17/22	3,448	2	24.00	2	3,448
Fri-2/18/22	3,508	2	24.00	2	3,508
Sat-2/19/22	3,545	2	24.00	2	3,545
Sun-2/20/22	3,529	2	24.00	2	3,529
Mon-2/21/22	3,463	2	24.00	2	3,463
Tue-2/22/22	3,456	2	24.00	2	3,456
Wed-2/23/22	3,516	2	24.00	2	3,516
Thu-2/24/22	3,509	2	24.00	2	3,509
Fri-2/25/22	3,512	2	24.00	2	3,512
Sat-2/26/22	3,457	2	24.00	2	3,457
Sun-2/27/22	3,391	2	24.00	2	3,391
Mon-2/28/22	3,379	2	24.00	2	3,379
TOTALS	96,841	2	672.00	2	96,841

TOTAL VOLUME EXTRACTED :	96,841 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	2.17 GPM

SOUTHWEST AREA EXTRACTION DATA

Month of: Feb-22

SouthWest Well Extraction							Daily Flow GPM	Daily Total Gallons
Date	TW22 Gallons	GPM	Run Hrs.	TW28 Gallons	GPM	Run Hrs.		
Tue-2/1/22	3,395	2	24.00	35,915	25	24.00	27	39,310
Wed-2/2/22	3,343	2	24.00	35,928	25	24.00	27	39,271
Thu-2/3/22	3,342	2	24.00	35,923	25	24.00	27	39,265
Fri-2/4/22	3,345	2	24.00	35,932	25	24.00	27	39,277
Sat-2/5/22	3,353	2	24.00	35,873	25	24.00	27	39,226
Sun-2/6/22	3,355	2	24.00	35,879	25	24.00	27	39,234
Mon-2/7/22	3,353	2	24.00	35,909	25	24.00	27	39,262
Tue-2/8/22	3,354	2	24.00	35,899	25	24.00	27	39,253
Wed-2/9/22	2,915	2	23.78	35,890	25	24.00	27	38,805
Thu-2/10/22	2,825	2	24.00	35,868	25	24.00	27	38,693
Fri-2/11/22	3,316	2	23.93	35,917	25	24.00	27	39,233
Sat-2/12/22	3,380	2	24.00	35,770	25	24.00	27	39,150
Sun-2/13/22	3,391	2	24.00	35,761	25	24.00	27	39,152
Mon-2/14/22	3,400	2	24.00	35,778	25	24.00	27	39,178
Tue-2/15/22	3,410	2	24.00	35,785	25	24.00	27	39,195
Wed-2/16/22	3,420	2	24.00	35,820	25	24.00	27	39,240
Thu-2/17/22	3,421	2	24.00	35,801	25	24.00	27	39,222
Fri-2/18/22	3,100	2	24.00	35,937	25	24.00	27	39,037
Sat-2/19/22	2,794	2	24.00	36,032	25	24.00	27	38,826
Sun-2/20/22	3,060	2	24.00	36,013	25	24.00	27	39,073
Mon-2/21/22	3,360	2	24.00	35,946	25	24.00	27	39,306
Tue-2/22/22	3,414	2	24.00	35,926	25	24.00	27	39,340
Wed-2/23/22	3,406	2	24.00	35,856	25	24.00	27	39,262
Thu-2/24/22	3,352	2	24.00	35,875	25	24.00	27	39,227
Fri-2/25/22	3,282	2	24.00	35,883	25	24.00	27	39,165
Sat-2/26/22	3,336	2	24.00	36,084	25	24.00	27	39,420
Sun-2/27/22	3,412	2	24.00	36,153	25	24.00	27	39,565
Mon-2/28/22	3,421	2	24.00	35,869	25	24.00	27	39,290
TOTALS	92,255	2	671.72	1,005,222	25	672.00	27	1,097,477

TOTAL VOLUME EXTRACTED : 1,097,477 GALLONS

DAYS IN MONTH : 31 DAYS

MONTHLY AVERAGE FLOW RATE : 24.59 GPM

TABLE #6
UNIT "E" EXTRACTION DATA

Month of: Feb-22

Date	TW-11			TW-17			TW-18			TW-29			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.		
Tue-2/1/22	-	-	-	86,611	60	24.00	158,327	112	23.62	70,718	50	23.58	71,190	50	23.58	269	386,846
Wed-2/2/22	-	-	-	86,587	60	24.00	160,998	112	24.00	71,855	50	24.00	72,471	50	24.00	272	391,911
Thu-2/3/22	-	-	-	86,563	60	24.00	160,990	112	24.00	71,833	50	23.93	72,124	50	23.93	272	391,510
Fri-2/4/22	-	-	-	86,583	60	24.00	160,977	112	24.00	71,285	50	23.80	71,737	50	23.80	271	390,582
Sat-2/5/22	-	-	-	86,539	60	24.00	160,988	112	24.00	69,942	50	23.33	70,343	50	23.33	269	387,812
Sun-2/6/22	-	-	-	86,573	60	24.00	160,972	112	24.00	71,948	50	24.00	72,218	50	24.00	272	391,711
Mon-2/7/22	-	-	-	86,580	60	24.00	161,013	112	24.00	71,957	50	24.00	72,236	50	24.00	272	391,786
Tue-2/8/22	-	-	-	86,575	60	24.00	161,008	112	24.00	71,911	50	24.00	72,300	50	24.00	272	391,794
Wed-2/9/22	-	-	-	86,620	60	24.00	161,016	112	24.00	71,938	50	24.00	72,300	50	24.00	272	391,874
Thu-2/10/22	-	-	-	86,601	60	24.00	161,023	112	24.00	71,914	50	24.00	72,278	50	24.00	272	391,816
Fri-2/11/22	-	-	-	86,576	60	24.00	161,029	112	24.00	71,910	50	24.00	72,347	50	24.00	272	391,862
Sat-2/12/22	-	-	-	86,593	60	24.00	161,055	112	24.00	71,862	50	24.00	72,264	50	24.00	272	391,774
Sun-2/13/22	-	-	-	86,545	60	24.00	161,033	112	24.00	71,927	50	24.00	72,414	50	24.00	272	391,919
Mon-2/14/22	-	-	-	86,560	60	24.00	156,101	108	24.00	71,900	50	24.00	72,268	50	24.00	269	386,829
Tue-2/15/22	-	-	-	86,571	60	24.00	153,712	107	24.00	71,909	50	24.00	72,265	50	24.00	267	384,457
Wed-2/16/22	-	-	-	86,611	60	24.00	153,690	107	24.00	71,937	50	24.00	72,313	50	24.00	267	384,551
Thu-2/17/22	-	-	-	86,573	60	24.00	153,716	107	24.00	71,995	50	24.00	72,360	50	24.00	267	384,644
Fri-2/18/22	-	-	-	86,582	60	24.00	153,707	107	24.00	70,921	50	23.65	71,382	50	23.68	266	382,592
Sat-2/19/22	-	-	-	86,588	60	24.00	149,141	104	24.00	67,330	50	22.51	67,818	50	22.51	258	370,877
Sun-2/20/22	-	-	-	86,560	60	24.00	146,465	102	24.00	71,988	50	24.00	72,325	50	24.00	262	377,338
Mon-2/21/22	-	-	-	86,597	60	24.00	151,376	105	24.00	72,013	50	24.00	72,314	50	24.00	265	382,300
Tue-2/22/22	-	-	-	86,627	60	24.00	153,838	107	24.00	71,980	50	24.00	72,332	50	24.00	267	384,777
Wed-2/23/22	-	-	-	86,566	60	24.00	152,835	107	23.87	71,344	50	23.80	71,814	50	23.80	266	382,559
Thu-2/24/22	-	-	-	76,724	53	24.00	153,862	107	24.00	71,817	50	23.95	72,201	50	23.95	260	374,604
Fri-2/25/22	-	-	-	72,174	50	24.00	153,815	107	24.00	71,933	50	24.00	72,320	50	24.00	257	370,242
Sat-2/26/22	-	-	-	72,193	50	24.00	152,843	107	23.87	71,802	50	24.00	72,294	50	24.00	256	369,132
Sun-2/27/22	-	-	-	72,175	50	24.00	153,741	107	24.00	71,980	50	24.00	72,300	50	24.00	257	370,196
Mon-2/28/22	-	-	-	72,185	50	24.00	153,766	107	24.00	71,914	50	24.00	72,285	50	24.00	257	370,150
TOTALS	-	-	-	2,356,832	58	672.00	4,383,037	109	671.35	2,003,763	50	668.55	2,014,813	50	668.58	267	10,758,445

TOTAL VOLUME EXTRACTED :		10,758,445 GALLONS
DAYS IN MONTH :		31 DAYS
MONTHLY AVERAGE FLOW RATE :		241.00 GPM

02/19/2022 - TW-29 was shut down briefly due to communication loss.
02/19/2022 - TW-23 was shut down briefly due to communication loss.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
11/18/21	31
12/01/21	40
01/12/22	54
02/10/22	43

TABLE #8**INDIVIDUAL PURGE WELL CONCENTRATIONS**

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-02-18-22-11:20-1	02/18/22	140
TW-10-02-18-22-11:05-1	02/18/22	920
TW-14-02-18-22-10:55-1	02/18/22	120
TW-20-02-18-22-11:10-1	02/18/22	840
TW-24-02-24-22-11:25-1	02/24/22	2400
LB-4-02-18-22-10:20-1	02/18/22	470
TW-21-02-18-22-11:30-1	02/24/22	290
TW-17-02-18-22-11:00-1	02/18/22	53
TW-18-02-18-22-11:35-1	02/18/22	240
TW-23-02-18-22-10:25-1	02/18/22	430
TW-29-02-18-22-10:40-1	02/18/22	340
PW-1-02-18-22-11:15-1	02/18/22	930
TW-22-02-24-22-13:00-1	02/24/22	430
TW-28-02-18-22-11:45-1	02/18/22	700

RED POND DATA

Month of: Feb-22

Date	Time	Notes	Red Pond				
			Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Tue-2/1/22	04:00:00.000		Y	4.6	-	24.00	624
Wed-2/2/22	04:00:00.000		Y	4.8	-	24.00	632
Thu-2/3/22	04:00:00.000		Y	4.8	-	24.00	629
Fri-2/4/22	04:00:00.000		Y	4.8	-	24.00	626
Sat-2/5/22	04:00:00.000	(1)		4.8	-	24.00	624
Sun-2/6/22	04:00:00.000	(1)		4.7	-	24.00	627
Mon-2/7/22	04:00:00.000		Y	4.8	-	24.00	628
Tue-2/8/22	04:00:00.000		Y	4.8	-	24.00	628
Wed-2/9/22	04:00:00.000		Y	4.7	-	24.00	628
Thu-2/10/22	04:00:00.000		Y	4.7	-	24.00	627
Fri-2/11/22	04:00:00.000		Y	4.8	-	24.00	628
Sat-2/12/22	04:00:00.000	(1)		4.9	-	24.00	627
Sun-2/13/22	04:00:00.000	(1)		5.0	-	24.00	628
Mon-2/14/22	04:00:00.000		Y	5.0	-	24.00	624
Tue-2/15/22	04:00:00.000		Y	4.8	-	24.00	622
Wed-2/16/22	04:00:00.000		Y	4.7	-	24.00	625
Thu-2/17/22	04:00:00.000		Y	4.9	-	24.00	628
Fri-2/18/22	04:00:00.000		Y	4.9	-	24.00	623
Sat-2/19/22	04:00:00.000	(1)		4.8	-	24.00	613
Sun-2/20/22	04:00:00.000	(1)		4.6	-	24.00	618
Mon-2/21/22	04:00:00.000		Y	4.5	-	24.00	622
Tue-2/22/22	04:15:00.000		Y	4.6	-	24.00	627
Wed-2/23/22	04:00:00.000		Y	5.4	-	24.00	623
Thu-2/24/22	04:00:00.000		Y	5.1	-	24.00	613
Fri-2/25/22	04:00:00.000		Y	4.9	-	24.00	608
Sat-2/26/22	04:00:00.000	(1)		4.8	-	24.00	617
Sun-2/27/22	04:00:00.000	(1)		4.8	-	24.00	623
Mon-2/28/22	04:00:00.000		Y	4.7	-	24.00	623
TOTALS			-	-	-	672	

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-02-01-22-07:05-1	2/1/2022	390
Red Pond-02-02-22-07:00-1	2/2/2022	400
Red Pond-02-03-22-07:30-1	2/3/2022	340
Red Pond-02-04-22-07:45-1	2/4/2022	380
Red Pond-02-07-22-07:10-1	2/7/2022	380
Red Pond-02-08-22-07:35-1	2/8/2022	370
Red Pond-02-09-22-07:35-1	2/9/2022	370
Red Pond-02-10-22-07:00-1	2/10/2022	360
Red Pond-02-11-22-07:30-1	2/11/2022	380
Red Pond-02-14-22-07:15-1	2/14/2022	390
Red Pond-02-15-22-08:55-1	2/15/2022	390
Red Pond-02-16-22-08:45-1	2/16/2022	370
Red Pond-02-17-22-07:40-1	2/17/2022	390
Red Pond-02-18-22-08:00-1	2/18/2022	390
Red Pond-02-21-22-07:20-1	2/21/2022	410
Red Pond-02-22-22-07:10-1	2/22/2022	410
Red Pond-02-23-22-07:35-1	2/23/2022	420
Red Pond-02-24-22-07:10-1	2/24/2022	420
Red Pond-02-25-22-07:30-1	2/25/2022	360
Red Pond-02-28-22-07:30-1	2/28/2022	440

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

OZONE OPERATION REPORT

Month of: Feb-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-2/1/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Wed-2/2/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Thu-2/3/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Fri-2/4/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Sat-2/5/22	04:00:00.000	(1)	240	24.00	0	0.00	380	24.00	0	0.00
Sun-2/6/22	04:00:00.000	(1)	241	24.00	0	0.00	379	24.00	0	0.00
Mon-2/7/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Tue-2/8/22	04:00:00.000		240	23.85	0	0.00	380	24.00	0	0.00
Wed-2/9/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Thu-2/10/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Fri-2/11/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Sat-2/12/22	04:00:00.000	(1)	239	24.00	0	0.00	379	24.00	0	0.00
Sun-2/13/22	04:00:00.000	(1)	241	24.00	0	0.00	380	24.00	0	0.00
Mon-2/14/22	04:00:00.000		240	24.00	0	0.00	379	24.00	0	0.00
Tue-2/15/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Wed-2/16/22	04:00:00.000		241	24.00	0	0.00	380	24.00	0	0.00
Thu-2/17/22	04:00:00.000		241	24.00	0	0.00	381	24.00	0	0.00
Fri-2/18/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Sat-2/19/22	04:00:00.000	(1)	240	24.00	0	0.00	380	24.00	0	0.00
Sun-2/20/22	04:00:00.000	(1)	240	24.00	0	0.00	381	24.00	0	0.00
Mon-2/21/22	04:00:00.000		241	24.00	0	0.00	381	24.00	0	0.00
Tue-2/22/22	04:15:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Wed-2/23/22	04:00:00.000		241	22.05	0	0.00	380	21.93	0	0.00
Thu-2/24/22	04:00:00.000		240	24.00	0	0.00	380	24.00	0	0.00
Fri-2/25/22	04:00:00.000		240	24.00	0	0.00	381	24.00	0	0.00
Sat-2/26/22	04:00:00.000	(1)	240	23.95	0	0.00	380	23.93	0	0.00
Sun-2/27/22	04:00:00.000	(1)	240	24.00	0	0.00	381	24.00	0	0.00
Mon-2/28/22	04:00:00.000		241	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.

02/23/2022 - Treatment System was shut down for system maintenance.

TABLE #12
GREEN POND / DISCHARGE DATA

Month of: **Feb-22**

DateTimeNotes			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-2/1/22	04:00:00.000	(1)	Y	-	-				642	924,657	24.00	-	-	-	-	-	-		
Wed-2/2/22	04:00:00.000		Y	-	-				642	924,683	24.00	-	-	-	-	-	-		
Thu-2/3/22	04:00:00.000		Y	-	-				642	924,098	24.00	-	-	-	-	-	-		
Fri-2/4/22	04:00:00.000		Y	-	-				642	924,268	24.00	-	-	-	-	-	-		
Sat-2/5/22	04:00:00.000		642	924,359	24.00	-	-	-	-	-	-	-	-	-	-	-			
Sun-2/6/22	04:00:00.000	(1)		-	-				642	924,306	24.00	-	-	-	-	-	-		
Mon-2/7/22	04:00:00.000		Y	-	-				642	924,597	24.00	-	-	-	-	-	-		
Tue-2/8/22	04:00:00.000		Y	-	-				640	921,510	24.00	-	-	-	-	-	-		
Wed-2/9/22	04:00:00.000		Y	-	-				642	925,063	24.00	-	-	-	-	-	-		
Thu-2/10/22	04:00:00.000		Y	-	-				642	924,926	24.00	-	-	-	-	-	-		
Fri-2/11/22	04:00:00.000	(1)	Y	-	-				642	924,928	24.00	-	-	-	-	-	-		
Sat-2/12/22	04:00:00.000			-	-				642	924,594	24.00	-	-	-	-	-	-		
Sun-2/13/22	04:00:00.000			-	-				642	924,411	24.00	-	-	-	-	-	-		
Mon-2/14/22	04:00:00.000		Y	-	-				642	924,442	24.00	-	-	-	-	-	-		
Tue-2/15/22	04:00:00.000		Y	-	-				642	924,476	24.00	-	-	-	-	-	-		
Wed-2/16/22	04:00:00.000	(1)	Y	-	-				642	924,834	24.00	-	-	-	-	-	-		
Thu-2/17/22	04:00:00.000		Y	-	-				642	924,932	24.00	-	-	-	-	-	-		
Fri-2/18/22	04:00:00.000		Y	-	-				642	924,600	24.00	-	-	-	-	-	-		
Sat-2/19/22	04:00:00.000			-	-				642	924,440	24.00	-	-	-	-	-	-		
Sun-2/20/22	04:00:00.000			-	-				642	924,616	24.00	-	-	-	-	-	-		
Mon-2/21/22	04:00:00.000	(1)	Y	-	-				642	925,088	24.00	-	-	-	-	-	-		
Tue-2/22/22	04:15:00.000		Y	-	-				643	925,352	24.00	-	-	-	-	-	-		
Wed-2/23/22	04:00:00.000		Y	-	-				639	842,866	22.00	-	-	-	-	-	-		
Thu-2/24/22	04:00:00.000		Y	-	-				643	925,373	24.00	-	-	-	-	-	-		
Fri-2/25/22	04:00:00.000		Y	-	-				643	925,324	24.00	-	-	-	-	-	-		
Sat-2/26/22	04:00:00.000	(1)		-	-				637	917,382	24.00	-	-	-	-	-	-		
Sun-2/27/22	04:00:00.000			-	-				643	925,324	24.00	-	-	-	-	-	-		
Mon-2/28/22	04:00:00.000		Y	-	-				643	925,389	24.00	-	-	-	-	-	-		
TOTALS												25,800,838	670						

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
2/1/2022	0.925	*G	*G	6	0.390	<50	<0.16	no	no	6.9	6.9	<5.0	80
2/2/2022	0.925			6	0.400	<50	<0.16	no	yes	6.8	6.8	<5.0	
2/3/2022	0.924			5	0.340	<50	<0.16	no	no	7.0	7.0	<5.0	
2/4/2022	0.924				0.380	<50	<0.16	no	no	6.9	6.9		
2/5/2022	0.924												
2/6/2022	0.924			5								<5.0	
2/7/2022	0.925			6	0.380	<50	<0.16	yes	yes	6.9	6.9	5.2	50
2/8/2022	0.922			6	0.370	<50	<0.16	no	no	6.9	6.9	6.6	
2/9/2022	0.925			5	0.370	<50	<0.16	no	yes	6.9	6.9	<5.0	52
2/10/2022	0.925			5	0.360	<50	<0.16	no	no	7.0	7.0	5.8	
2/11/2022	0.925				0.380	<50	<0.16	no	no	7.0	7.0		
2/12/2022	0.925												
2/13/2022	0.924			6								<5.0	
2/14/2022	0.924			7	0.390	<50	<0.16	yes	yes	7.0	7.0	6.0	44
2/15/2022	0.924			6	0.390	<50	<0.16	no	no	7.0	7.0	<5.0	
2/16/2022	0.925			6	0.370	<50	<0.16	no	yes	7.0	7.0	5.0	46
2/17/2022	0.925			5	0.390	<50	<0.16	no	no	7.0	7.0	6.2	
2/18/2022	0.925				0.390	<50	<0.16	no	no	7.1	7.1		
2/19/2022	0.924												
2/20/2022	0.925			6								<5.0	
2/21/2022	0.925			6	0.410	<50	<0.16	yes	yes	7.0	7.0	5.1	46
2/22/2022	0.925			6	0.410	<50	<0.16	no	no	7.0	7.0	<5.0	
2/23/2022	0.843			5	0.420	<50	<0.16	no	yes	7.0	7.0	<5.0	44
2/24/2022	0.925			6	0.420	<50	<0.16	no	no	7.0	7.0	6.8	
2/25/2022	0.925				0.360	<50	<0.16	no	no	7.0	7.0		
2/26/2022	0.917												
2/27/2022	0.925			5								6.0	
2/28/2022	0.925			6	0.440	<50	<0.16	yes	yes	7.0	7.0	6.0	36
Discharged	25.801												
Monthly Avg	0.921			5.7								5.7**	

**The monthly average for bromate was calculated by summing the daily bromate results and dividing by the number of days a sample was collected. For days where bromate was not detected, the laboratory reporting limit of 5.0 ug/l was used in the calculation.