



April 20, 2021

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

**Re: Monitoring Report # 287
March 1 – March 31, 2021**

Dear Mr. Mroczkowski:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of March 1 through March 31, 2021.

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 positioned above the printed name and title.

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: **Mar-21**

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-3/1/21	-	-	-	-	-	-	-	-	-	108,044	75	24.00	75	108,044
Tue-3/2/21	-	-	-	-	-	-	-	-	-	95,827	67	24.00	67	95,827
Wed-3/3/21	-	-	-	-	-	-	-	-	-	86,485	60	24.00	60	86,485
Thu-3/4/21	-	-	-	-	-	-	-	-	-	82,852	58	24.00	58	82,852
Fri-3/5/21	-	-	-	-	-	-	-	-	-	87,878	61	24.00	61	87,878
Sat-3/6/21	-	-	-	-	-	-	-	-	-	93,652	65	24.00	65	93,652
Sun-3/7/21	-	-	-	-	-	-	-	-	-	93,640	65	24.00	65	93,640
Mon-3/8/21	-	-	-	-	-	-	-	-	-	93,726	65	24.00	65	93,726
Tue-3/9/21	-	-	-	-	-	-	-	-	-	92,410	64	24.00	64	92,410
Wed-3/10/21	-	-	-	-	-	-	-	-	-	93,746	65	24.00	65	93,746
Thu-3/11/21	-	-	-	-	-	-	-	-	-	93,771	65	24.00	65	93,771
Fri-3/12/21	-	-	-	-	-	-	-	-	-	93,693	65	24.00	65	93,693
Sat-3/13/21	-	-	-	-	-	-	-	-	-	93,648	65	24.00	65	93,648
Sun-3/14/21	-	-	-	-	-	-	-	-	-	89,756	65	23.00	62	89,756
Mon-3/15/21	-	-	-	-	-	-	-	-	-	88,692	62	24.00	62	88,692
Tue-3/16/21	-	-	-	-	-	-	-	-	-	83,157	58	24.00	58	83,157
Wed-3/17/21	-	-	-	-	-	-	-	-	-	79,282	55	24.00	55	79,282
Thu-3/18/21	-	-	-	-	-	-	-	-	-	78,840	55	24.00	55	78,840
Fri-3/19/21	-	-	-	-	-	-	-	-	-	79,245	55	24.00	55	79,245
Sat-3/20/21	-	-	-	-	-	-	-	-	-	79,263	55	24.00	55	79,263
Sun-3/21/21	-	-	-	-	-	-	-	-	-	79,296	55	24.00	55	79,296
Mon-3/22/21	-	-	-	-	-	-	-	-	-	79,334	55	24.00	55	79,334
Tue-3/23/21	-	-	-	-	-	-	-	-	-	75,214	52	24.00	52	75,214
Wed-3/24/21	-	-	-	-	-	-	-	-	-	72,169	50	24.00	50	72,169
Thu-3/25/21	-	-	-	-	-	-	-	-	-	72,163	50	24.00	50	72,163
Fri-3/26/21	-	-	-	-	-	-	-	-	-	72,099	50	24.00	50	72,099
Sat-3/27/21	-	-	-	-	-	-	-	-	-	80,841	56	24.00	56	80,841
Sun-3/28/21	-	-	-	-	-	-	-	-	-	108,098	75	24.00	75	108,098
Mon-3/29/21	-	-	-	-	-	-	-	-	-	108,099	75	24.00	75	108,099
Tue-3/30/21	-	-	-	-	-	-	-	-	-	108,160	75	24.00	75	108,160
Wed-3/31/21	-	-	-	-	-	-	-	-	-	108,121	75	24.00	75	108,121
TOTALS	-	-	-	-	-	-	-	-	-	2,751,201	62	743.00	62	2,751,201

TOTAL VOLUME EXTRACTED :	2,751,201 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	61.63 GPM

3/14/21 - TW-21 was shut down briefly due to communication loss.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Mar-21

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-3/1/21	-	-	-	144,201	100	24.00	100	144,201
Tue-3/2/21	-	-	-	144,250	100	24.00	100	144,250
Wed-3/3/21	-	-	-	144,226	100	24.00	100	144,226
Thu-3/4/21	-	-	-	144,256	100	24.00	100	144,256
Fri-3/5/21	-	-	-	144,278	100	24.00	100	144,278
Sat-3/6/21	-	-	-	144,224	100	24.00	100	144,224
Sun-3/7/21	-	-	-	144,168	100	24.00	100	144,168
Mon-3/8/21	-	-	-	144,212	100	24.00	100	144,212
Tue-3/9/21	-	-	-	144,192	100	24.00	100	144,192
Wed-3/10/21	-	-	-	144,183	100	24.00	100	144,183
Thu-3/11/21	-	-	-	144,223	100	24.00	100	144,223
Fri-3/12/21	-	-	-	144,237	100	24.00	100	144,237
Sat-3/13/21	-	-	-	144,190	100	24.00	100	144,190
Sun-3/14/21	-	-	-	138,203	100	23.00	96	138,203
Mon-3/15/21	-	-	-	144,203	100	24.00	100	144,203
Tue-3/16/21	-	-	-	144,220	100	24.00	100	144,220
Wed-3/17/21	-	-	-	144,202	100	24.00	100	144,202
Thu-3/18/21	-	-	-	144,213	100	24.00	100	144,213
Fri-3/19/21	-	-	-	144,213	100	24.00	100	144,213
Sat-3/20/21	-	-	-	144,203	100	24.00	100	144,203
Sun-3/21/21	-	-	-	144,212	100	23.98	100	144,212
Mon-3/22/21	-	-	-	144,211	100	24.00	100	144,211
Tue-3/23/21	-	0	0.01	144,197	100	24.00	100	144,197
Wed-3/24/21	72,149	80	15.03	53,790	96	9.33	87	125,939
Thu-3/25/21	72,152	50	24.00	-	-	-	50	72,152
Fri-3/26/21	72,154	50	24.00	-	-	-	50	72,154
Sat-3/27/21	72,141	50	24.00	-	-	-	50	72,141
Sun-3/28/21	72,157	50	23.98	-	-	-	50	72,157
Mon-3/29/21	72,150	50	24.00	-	-	-	50	72,150
Tue-3/30/21	72,152	50	24.00	-	-	-	50	72,152
Wed-3/31/21	-	-	-	-	-	-	-	-
TOTALS	505,055	48	159.02	3,364,707	100	560.31	90	3,869,762

TOTAL VOLUME EXTRACTED :	3,869,762 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	86.69 GPM

3/14/21 - LB-4 was shut down briefly due to communication loss.
 3/24/21-3/31/21 - LB-4 was shut down for rehabilitation.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: Mar-21

Core Area Well Extraction																			Daily Flow	Daily Total
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			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.		
Mon-3/1/21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28,951	20	24.00	20	28,951
Tue-3/2/21	-	-	-	22,523	27	13.97	-	-	-	-	-	-	-	-	-	28,940	20	24.00	36	51,463
Wed-3/3/21	-	-	-	34,086	24	24.00	-	-	-	-	-	-	-	-	-	28,933	20	24.00	44	63,019
Thu-3/4/21	-	-	-	35,282	25	24.00	-	-	-	-	-	-	-	-	-	28,940	20	24.00	45	64,222
Fri-3/5/21	-	-	-	35,867	25	24.00	-	-	-	-	-	-	-	-	-	28,938	20	24.00	45	64,805
Sat-3/6/21	-	-	-	35,815	25	24.00	-	-	-	-	-	-	-	-	-	28,944	20	24.00	45	64,759
Sun-3/7/21	-	-	-	35,846	25	24.00	-	-	-	-	-	-	-	-	-	28,910	20	24.00	45	64,756
Mon-3/8/21	-	-	-	35,815	25	24.00	-	-	-	-	-	-	-	-	-	28,930	20	24.00	45	64,745
Tue-3/9/21	-	-	-	42,204	30	23.75	-	-	-	-	-	-	-	-	-	28,899	20	24.00	49	71,103
Wed-3/10/21	-	-	-	42,906	30	24.00	-	-	-	-	-	-	-	-	-	11,288	20	9.35	38	54,194
Thu-3/11/21	-	-	-	37,413	26	24.00	-	-	-	-	-	-	-	-	-	-	-	-	26	37,413
Fri-3/12/21	-	-	-	34,724	24	24.00	-	-	-	-	-	-	-	-	-	-	-	-	24	34,724
Sat-3/13/21	-	-	-	34,781	24	24.00	-	-	-	-	-	-	-	-	-	-	-	-	24	34,781
Sun-3/14/21	-	-	-	33,314	24	23.00	-	-	-	-	-	-	-	-	-	-	-	-	23	33,314
Mon-3/15/21	-	-	-	34,845	24	24.00	-	-	-	-	-	-	-	-	-	-	-	-	24	34,845
Tue-3/16/21	-	-	-	34,847	24	24.00	-	-	-	-	-	-	-	-	-	16,201	20	13.38	35	51,048
Wed-3/17/21	-	-	-	34,849	24	24.00	-	-	-	-	-	-	-	-	-	28,909	20	24.00	44	63,758
Thu-3/18/21	-	-	-	34,924	24	24.00	-	-	-	-	-	-	-	-	-	28,944	20	24.00	44	63,868
Fri-3/19/21	-	-	-	34,988	24	24.00	-	-	-	-	-	-	-	-	-	28,984	20	24.00	44	63,972
Sat-3/20/21	-	-	-	35,016	24	24.00	-	-	-	-	-	-	-	-	-	28,874	20	24.00	44	63,890
Sun-3/21/21	-	-	-	35,007	24	24.00	-	-	-	-	-	-	-	-	-	29,041	20	24.00	44	64,048
Mon-3/22/21	-	-	-	35,025	24	24.00	-	-	-	-	-	-	-	-	-	29,049	20	24.00	44	64,074
Tue-3/23/21	-	-	-	35,009	24	24.00	-	-	-	-	-	-	-	-	-	29,060	20	24.00	44	64,069
Wed-3/24/21	-	-	-	35,027	24	24.00	-	-	-	-	-	-	-	-	-	29,239	20	24.00	45	64,266
Thu-3/25/21	-	-	-	36,059	25	24.00	-	-	-	-	-	-	-	-	-	29,189	20	24.00	45	65,248
Fri-3/26/21	-	-	-	37,466	26	24.00	-	-	-	-	-	-	-	-	-	28,979	20	24.00	46	66,445
Sat-3/27/21	-	-	-	37,954	26	24.00	-	-	-	-	-	-	-	-	-	29,048	20	24.00	47	67,002
Sun-3/28/21	-	-	-	39,171	27	24.00	-	-	-	-	-	-	-	-	-	29,070	20	24.00	47	68,241
Mon-3/29/21	-	-	-	39,220	27	24.00	-	-	-	-	-	-	-	-	-	29,051	20	24.00	47	68,271
Tue-3/30/21	-	-	-	39,313	27	24.00	-	-	-	13,584	41	5.52	-	-	-	29,017	20	24.00	57	81,914
Wed-3/31/21	-	-	-	39,539	27	24.00	-	-	-	61,486	43	24.00	-	-	-	29,015	20	24.00	90	130,040
TOTALS	-	-	-	1,078,835	25	708.72	-	-	-	75,070	42	29.52	-	-	-	723,343	20	598.73	42	1,877,248

TOTAL VOLUME EXTRACTED :	1,877,248 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	42.05 GPM

3/1/21-3/2/21 - TW-2 was shut down for rehabilitation.
 3/10/21-3/16/21 - TW-20 was shut down for rehabilitation.
 3/14/21 - TW-2 was shut down briefly due to communication loss.

MARSHY AREA EXTRACTION DATA

Month of: **Mar-21**

Marshy Well Extraction				Daily	Daily
Date	PW-1			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-3/1/21	1,970	1	24.00	1	1,970
Tue-3/2/21	2,023	1	24.00	1	2,023
Wed-3/3/21	2,003	1	24.00	1	2,003
Thu-3/4/21	2,010	1	24.00	1	2,010
Fri-3/5/21	2,006	1	24.00	1	2,006
Sat-3/6/21	2,002	1	24.00	1	2,002
Sun-3/7/21	1,996	1	24.00	1	1,996
Mon-3/8/21	1,986	1	24.00	1	1,986
Tue-3/9/21	1,980	1	24.00	1	1,980
Wed-3/10/21	1,979	1	24.00	1	1,979
Thu-3/11/21	1,971	1	24.00	1	1,971
Fri-3/12/21	1,972	1	24.00	1	1,972
Sat-3/13/21	1,978	1	24.00	1	1,978
Sun-3/14/21	1,888	1	23.00	1	1,888
Mon-3/15/21	1,977	1	24.00	1	1,977
Tue-3/16/21	979	1	11.42	1	979
Wed-3/17/21	803	1	9.38	1	803
Thu-3/18/21	2,013	1	24.00	1	2,013
Fri-3/19/21	2,057	1	24.00	1	2,057
Sat-3/20/21	2,041	1	24.00	1	2,041
Sun-3/21/21	2,026	1	24.00	1	2,026
Mon-3/22/21	2,017	1	24.00	1	2,017
Tue-3/23/21	2,008	1	24.00	1	2,008
Wed-3/24/21	2,004	1	24.00	1	2,004
Thu-3/25/21	2,003	1	24.00	1	2,003
Fri-3/26/21	2,004	1	24.00	1	2,004
Sat-3/27/21	1,989	1	24.00	1	1,989
Sun-3/28/21	1,979	1	24.00	1	1,979
Mon-3/29/21	1,973	1	24.00	1	1,973
Tue-3/30/21	1,970	1	24.00	1	1,970
Wed-3/31/21	1,947	1	24.00	1	1,947
TOTALS	59,554	1	715.80	1	59,554

TOTAL VOLUME EXTRACTED :	59,554 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	1.33 GPM

3/14/21 - PW-1 was shut down briefly due to communication loss.

3/16/21-3/17/21 - PW-1 was shut down for rehabilitation.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Mar-21**

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-3/1/21	401	<1	23.88	35,897	25	24.00	25	36,298
Tue-3/2/21	306	<1	10.73	35,981	25	24.00	25	36,287
Wed-3/3/21	-	-	-	36,220	25	24.00	25	36,220
Thu-3/4/21	-	-	-	36,342	25	24.00	25	36,342
Fri-3/5/21	4,469	5	15.50	14,419	25	9.53	13	18,888
Sat-3/6/21	6,854	5	24.00	-	-	-	5	6,854
Sun-3/7/21	6,950	5	24.00	-	-	-	5	6,950
Mon-3/8/21	6,155	4	24.00	-	-	-	4	6,155
Tue-3/9/21	7,079	5	24.00	108	27	0.07	5	7,187
Wed-3/10/21	7,341	5	24.00	24,068	25	15.92	22	31,409
Thu-3/11/21	7,284	5	24.00	36,132	25	24.00	30	43,416
Fri-3/12/21	7,220	5	24.00	36,307	25	24.00	30	43,527
Sat-3/13/21	7,228	5	24.00	36,224	25	24.00	30	43,452
Sun-3/14/21	6,926	5	23.00	34,704	25	23.00	29	41,630
Mon-3/15/21	7,197	5	24.00	36,257	25	24.00	30	43,454
Tue-3/16/21	7,179	5	24.00	36,295	25	24.00	30	43,474
Wed-3/17/21	7,174	5	24.00	36,298	25	24.00	30	43,472
Thu-3/18/21	7,134	5	24.00	36,345	25	24.00	30	43,479
Fri-3/19/21	7,059	5	24.00	36,376	25	24.00	30	43,435
Sat-3/20/21	7,029	5	24.00	36,381	25	24.00	30	43,410
Sun-3/21/21	7,094	5	24.00	36,330	25	24.00	30	43,424
Mon-3/22/21	7,210	5	24.00	36,300	25	24.00	30	43,510
Tue-3/23/21	7,153	5	24.00	34,659	24	24.00	29	41,812
Wed-3/24/21	6,833	5	24.00	36,365	25	24.00	30	43,198
Thu-3/25/21	6,840	5	24.00	36,344	25	24.00	30	43,184
Fri-3/26/21	6,829	5	24.00	36,318	25	24.00	30	43,147
Sat-3/27/21	6,813	5	24.00	36,292	25	24.00	30	43,105
Sun-3/28/21	6,805	5	24.00	36,261	25	24.00	30	43,066
Mon-3/29/21	6,790	5	24.00	36,229	25	24.00	30	43,019
Tue-3/30/21	6,813	5	24.00	36,227	25	24.00	30	43,040
Wed-3/31/21	6,829	5	24.00	36,186	25	24.00	30	43,015
TOTALS	186,994	5	673.12	941,865	25	624.52	25	1,128,859

TOTAL VOLUME EXTRACTED :	1,128,859 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	25.29 GPM

3/2/21-3/5/21 - TW-22 was shut down for rehabilitation.
 3/5/21-3/10/21 - TW-28 was shut down for rehabilitation.
 3/14/21 - TW-22 and TW-28 were shut down briefly due to communication loss.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Mar-21

Date	TW-11			TW-17			TW-18			TW-19			TW-23			Daily Flow GPM	Daily Total Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Mon-3/1/21	-	-	-	-	-	-	241,422	168	24.00	-	-	-	143,993	100	24.00	268	385,415
Tue-3/2/21	-	-	-	-	-	-	237,229	165	24.00	26,381	40	11.00	117,025	82	23.75	264	380,635
Wed-3/3/21	-	-	-	-	-	-	234,201	163	24.00	57,472	40	24.00	86,542	60	24.00	263	378,215
Thu-3/4/21	-	-	-	-	-	-	229,921	161	23.85	57,475	40	24.00	86,853	60	24.00	260	374,249
Fri-3/5/21	-	-	-	-	-	-	235,912	164	24.00	57,495	40	24.00	86,701	60	24.00	264	380,108
Sat-3/6/21	-	-	-	-	-	-	241,693	168	24.00	57,585	40	24.00	86,526	60	24.00	268	385,804
Sun-3/7/21	-	-	-	-	-	-	241,786	168	24.00	57,607	40	24.00	86,519	60	24.00	268	385,912
Mon-3/8/21	-	-	-	-	-	-	241,799	168	24.00	57,548	40	24.00	86,563	60	24.00	268	385,910
Tue-3/9/21	-	-	-	-	-	-	238,776	168	23.75	56,754	40	23.71	85,677	60	23.71	265	381,207
Wed-3/10/21	-	-	-	-	-	-	237,284	165	24.00	57,536	40	24.00	86,644	60	24.00	265	381,464
Thu-3/11/21	-	-	-	-	-	-	234,357	163	24.00	57,469	40	23.91	86,357	60	23.91	263	378,183
Fri-3/12/21	-	-	-	-	-	-	234,309	163	24.00	57,642	40	24.00	86,611	60	24.00	263	378,562
Sat-3/13/21	-	-	-	-	-	-	234,328	163	24.00	57,658	40	24.00	86,665	60	24.00	263	378,651
Sun-3/14/21	-	-	-	-	-	-	224,513	163	23.00	55,196	40	23.00	83,032	60	23.00	252	362,741
Mon-3/15/21	-	-	-	-	-	-	234,316	163	24.00	57,605	40	24.00	86,660	60	24.00	262	378,581
Tue-3/16/21	-	-	-	-	-	-	227,683	158	24.00	57,510	40	24.00	86,686	60	24.00	258	371,879
Wed-3/17/21	-	-	-	-	-	-	219,720	153	24.00	57,332	40	24.00	86,733	60	24.00	253	363,785
Thu-3/18/21	-	-	-	-	-	-	218,836	153	23.90	57,368	40	24.00	86,618	60	24.00	252	362,822
Fri-3/19/21	-	-	-	-	-	-	219,976	153	24.00	57,361	40	24.00	86,631	60	24.00	253	363,968
Sat-3/20/21	-	-	-	-	-	-	219,795	153	24.00	57,373	40	24.00	86,545	60	24.00	253	363,713
Sun-3/21/21	-	-	-	-	-	-	219,862	153	24.00	57,344	40	24.00	86,611	60	24.00	253	363,817
Mon-3/22/21	-	-	-	-	-	-	219,981	153	24.00	57,370	40	24.00	86,652	60	24.00	253	364,003
Tue-3/23/21	-	-	-	-	-	-	219,954	153	24.00	57,357	40	24.00	86,628	60	24.00	253	363,939
Wed-3/24/21	-	-	-	-	-	-	219,900	153	24.00	57,358	40	24.00	86,641	60	24.00	253	363,899
Thu-3/25/21	-	-	-	-	-	-	219,915	153	24.00	57,396	40	24.00	86,494	60	24.00	253	363,805
Fri-3/26/21	-	-	-	-	-	-	219,863	153	24.00	57,505	40	24.00	86,573	60	24.00	253	363,941
Sat-3/27/21	-	-	-	-	-	-	228,701	159	24.00	57,421	40	24.00	86,649	60	24.00	259	372,771
Sun-3/28/21	-	-	-	-	-	-	256,354	178	24.00	57,401	40	24.00	86,445	60	24.00	278	400,200
Mon-3/29/21	-	-	-	-	-	-	256,346	178	24.00	57,551	40	24.00	86,588	60	24.00	278	400,485
Tue-3/30/21	-	-	-	-	-	-	256,409	178	24.00	55,358	40	23.10	83,398	60	23.10	274	395,165
Wed-3/31/21	-	-	-	-	-	-	256,360	178	24.00	57,512	40	24.00	86,608	60	24.00	278	400,480
TOTALS	-	-	-	-	-	-	7,221,501	162	742.50	1,637,940	40	704.72	2,764,868	62	741.47	262	11,674,309

TOTAL VOLUME EXTRACTED :	11,674,309 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	261.52 GPM

3/1/21-3/2/21 - TW-19 was shut down for maintenance.
 3/14/21 - TW-18, TW-19, and TW-23 were shut down briefly due to communication loss.

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
12/03/20	63
01/08/21	30
02/01/21	36
03/04/21	50

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
12/10/20	59
01/15/21	46
02/09/21	51
03/04/21	46

Date	Gallons Purged
3/8/2021	30,000

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-03-02-21-14:10-1	03/02/21	150
TW-20-03-01-21-10:55-1	03/01/21	790
TW-20-03-16-21-14:00-1	03/16/21	870
LB-1-03-24-21-09:40-1	03/24/21	340
LB-4-03-01-21-10:20-1	03/01/21	440
TW-21-03-01-21-10:35-1	03/01/21	250
TW-18-03-01-21-10:40-1	03/01/21	220
TW-19-03-02-21-14:10-1	03/02/21	390
TW-23-03-01-21-10:25-1	03/01/21	350
PW-1-03-01-21-10:45-1	03/01/21	680
PW-1-03-18-21-07:55-1	03/18/21	330
TW-22-03-01-21-11:00-1	03/01/21	370
TW-22-03-05-21-12:30-1	03/05/21	360
TW-28-03-01-21-11:05-1	03/01/21	700
TW-28-03-11-21-07:30-1	03/11/21	740

RED POND DATA

Month of: Mar-21

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Mon-3/1/21	05:45:00.000		Y	4.2	-	24.00	489
Tue-3/2/21	04:00:00.000		Y	4.2	-	24.00	493
Wed-3/3/21	04:00:00.000		Y	4.5	-	24.00	493
Thu-3/4/21	04:00:00.000		Y	4.5	-	24.00	489
Fri-3/5/21	04:00:00.000		Y	4.5	-	24.00	485
Sat-3/6/21	04:00:00.000	(1)		4.5	-	24.00	484
Sun-3/7/21	04:00:00.000	(1)		4.5	-	24.00	484
Mon-3/8/21	04:00:00.000		Y	4.7	-	24.00	484
Tue-3/9/21	04:00:00.000		Y	4.7	-	24.00	485
Wed-3/10/21	04:00:00.000		Y	4.8	-	24.00	491
Thu-3/11/21	04:00:00.000		Y	4.8	-	24.00	485
Fri-3/12/21	04:00:00.000		Y	4.9	-	24.00	484
Sat-3/13/21	04:00:00.000	(1)		4.9	-	24.00	484
Sun-3/14/21	04:00:00.000	(1)		5.0	-	23.00	484
Mon-3/15/21	04:00:00.000		Y	4.9	-	24.00	480
Tue-3/16/21	04:00:00.000		Y	4.9	-	24.00	482
Wed-3/17/21	04:00:00.000		Y	4.8	-	24.00	483
Thu-3/18/21	04:00:00.000		Y	5.4	-	24.00	483
Fri-3/19/21	04:00:00.000		Y	5.7	-	24.00	484
Sat-3/20/21	04:00:00.000	(1)		5.7	-	24.00	484
Sun-3/21/21	04:00:00.000	(1)		5.7	-	24.00	484
Mon-3/22/21	04:00:00.000		Y	5.6	-	24.00	484
Tue-3/23/21	04:00:00.000		Y	5.4	-	24.00	480
Wed-3/24/21	04:00:00.000		Y	4.8	-	24.00	466
Thu-3/25/21	04:00:00.000		Y	4.3	-	24.00	430
Fri-3/26/21	04:00:00.000		Y	3.6	-	24.00	430
Sat-3/27/21	04:00:00.000	(1)		3.1	-	24.00	443
Sun-3/28/21	04:00:00.000	(1)		3.2	-	24.00	482
Mon-3/29/21	04:00:00.000		Y	3.1	-	24.00	482
Tue-3/30/21	04:00:00.000		Y	3.2	-	24.00	488
Wed-3/31/21	04:00:00.000		Y	3.9	-	24.00	475
TOTALS			-	-	-	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 #10

RED POND CONCENTRATIONS

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

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-03-01-21-07:25-1	3/1/2021	350
Red Pond-03-08-21-07:30-1	3/8/2021	400
Red Pond-03-15-21-08:15-1	3/15/2021	370
Red Pond-03-22-21-07:25-1	3/22/2021	380
Red Pond-03-25-21-10:00-1	3/25/2021	320
Red Pond-03-30-21-15:30-1	3/30/2021	370
Red Pond-03-31-21-07:45-1	3/31/2021	370

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

OZONE OPERATION REPORT

Month of: Mar-21

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
Mon-3/1/21	15:45:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Tue-3/2/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-3/3/21	14:00:00.00		241	23.25	0	0.00	240	24.00	0	0.00
Thu-3/4/21	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Fri-3/5/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Sat-3/6/21	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-3/7/21	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Mon-3/8/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/9/21	14:00:00.00		241	24.00	0	0.00	239	24.00	0	0.00
Wed-3/10/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-3/11/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/12/21	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Sat-3/13/21	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-3/14/21	14:00:00.00	(1)	240	23.00	0	0.00	240	23.00	0	0.00
Mon-3/15/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/16/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-3/17/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Thu-3/18/21	14:00:00.00		241	22.20	0	0.00	239	22.13	0	0.00
Fri-3/19/21	14:00:00.00		241	23.28	0	0.00	240	23.03	0	0.00
Sat-3/20/21	14:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Sun-3/21/21	14:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-3/22/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/23/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-3/24/21	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-3/25/21	14:00:00.00		241	23.40	0	0.00	239	23.52	0	0.00
Fri-3/26/21	14:00:00.00		241	24.00	0	0.00	242	24.00	0	0.00
Sat-3/27/21	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-3/28/21	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-3/29/21	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Tue-3/30/21	14:00:00.00		241	24.00	0	0.00	240	24.00	0	0.00
Wed-3/31/21	14:00:00.00		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.

3/14/21 - Treatment was shut down briefly due to communication loss.

3/18/21 - Treatment was shut down briefly due to power failure.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: Mar-21

			Green Pond																	
Date	Time	Notes	Pond			Influent			Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM	Pond Discharge GPM	Pond Discharge Gallons	Bypass Discharge GPM	Bypass Discharge Gallons	Bypass Discharge Hours	Recirc Thru UV to Pond GPM	Recirc Thru UV to Pond Gallons	Recirc Thru UV to Pond Hours	Recirc Thru UV to Disch GPM	Recirc Thru UV to Disch Gallons	Recirc Thru UV to Disch Hours		
Mon-3/1/21	15:45:00.00		Y	-	-	-	-	-	-	497	716,027	24.00	-	-	-	-	-	-		
Tue-3/2/21	14:00:00.00		Y	-	-	-	-	-	-	497	715,974	24.00	-	-	-	-	-	-		
Wed-3/3/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,190	24.00	-	-	-	-	-	-		
Thu-3/4/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,046	24.00	-	-	-	-	-	-		
Fri-3/5/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,012	24.00	-	-	-	-	-	-		
Sat-3/6/21	14:00:00.00	(1)		-	-	-	-	-	-	497	715,938	24.00	-	-	-	-	-	-		
Sun-3/7/21	14:00:00.00	(1)		-	-	-	-	-	-	497	716,030	24.00	-	-	-	-	-	-		
Mon-3/8/21	14:00:00.00		Y	-	-	-	-	-	-	498	716,465	24.00	-	-	-	-	-	-		
Tue-3/9/21	14:00:00.00		Y	-	-	-	-	-	-	498	716,475	24.00	-	-	-	-	-	-		
Wed-3/10/21	14:00:00.00		Y	-	-	-	-	-	-	498	716,424	24.00	-	-	-	-	-	-		
Thu-3/11/21	14:00:00.00		Y	-	-	-	-	-	-	498	716,567	24.00	-	-	-	-	-	-		
Fri-3/12/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,195	24.00	-	-	-	-	-	-		
Sat-3/13/21	14:00:00.00	(1)		-	-	-	-	-	-	497	716,140	24.00	-	-	-	-	-	-		
Sun-3/14/21	14:00:00.00	(1)		-	-	-	-	-	-	496	685,138	23.00	-	-	-	-	-	-		
Mon-3/15/21	14:00:00.00		Y	-	-	-	-	-	-	497	715,928	24.00	-	-	-	-	-	-		
Tue-3/16/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,163	24.00	-	-	-	-	-	-		
Wed-3/17/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,237	24.00	-	-	-	-	-	-		
Thu-3/18/21	14:00:00.00		Y	-	-	-	-	-	-	496	656,885	22.07	-	-	-	-	-	-		
Fri-3/19/21	14:00:00.00		Y	-	-	-	-	-	-	499	695,623	23.22	-	-	-	-	-	-		
Sat-3/20/21	14:00:00.00	(1)		-	-	-	-	-	-	497	716,052	24.00	-	-	-	-	-	-		
Sun-3/21/21	14:00:00.00	(1)		-	-	-	-	-	-	497	716,237	24.00	-	-	-	-	-	-		
Mon-3/22/21	14:00:00.00		Y	-	-	-	-	-	-	497	716,354	24.00	-	-	-	-	-	-		
Tue-3/23/21	14:00:00.00		Y	-	-	-	-	-	-	498	716,530	24.00	-	-	-	-	-	-		
Wed-3/24/21	14:00:00.00		Y	-	-	-	-	-	-	498	717,350	24.00	-	-	-	-	-	-		
Thu-3/25/21	14:00:00.00		Y	-	-	-	-	-	-	498	701,726	23.48	-	-	-	-	-	-		
Fri-3/26/21	14:00:00.00		Y	-	-	-	-	-	-	498	717,483	24.00	-	-	-	-	-	-		
Sat-3/27/21	14:00:00.00	(1)		-	-	-	-	-	-	498	717,382	24.00	-	-	-	-	-	-		
Sun-3/28/21	14:00:00.00	(1)		-	-	-	-	-	-	498	717,030	24.00	-	-	-	-	-	-		
Mon-3/29/21	14:00:00.00		Y	-	-	-	-	-	-	498	717,076	24.00	-	-	-	-	-	-		
Tue-3/30/21	14:00:00.00		Y	-	-	-	-	-	-	498	717,362	24.00	-	-	-	-	-	-		
Wed-3/31/21	14:00:00.00		Y	-	-	-	-	-	-	498	717,321	24.00	-	-	-	-	-	-		
TOTALS											22,084,360	740								

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

PARAMETER NAME	(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)	
	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
3/1/2021	0.716	*G	*G	6.3	0.350	<50	<0.16	Yes	Yes	7.2	7.2	9.9	34
3/2/2021	0.716			7.2		<50	<0.16	No	No	7.3	7.3	9.4	
3/3/2021	0.716			6.1		<50	<0.16	No	Yes	7.2	7.2	9.4	45
3/4/2021	0.716			6.4		<50	<0.16	No	No	7.3	7.3	10	
3/5/2021	0.716					<50	<0.16	No	No	7.3	7.3		
3/6/2021	0.716												
3/7/2021	0.716			6.6								9.0	
3/8/2021	0.716			6.1	0.400	<50	<0.16	Yes	Yes	7.3	7.3	11	42
3/9/2021	0.716			5.8		<50	<0.16	No	No	7.2	7.2	9.4	
3/10/2021	0.716			6.2		<50	<0.16	No	Yes	7.3	7.3	11	36
3/11/2021	0.717			6.9		<50	<0.16	No	No	7.2	7.2	9.6	
3/12/2021	0.716					<50	<0.16	No	No	7.2	7.2		
3/13/2021	0.716												
3/14/2021	0.885			6.1								12	
3/15/2021	0.716			6.0	0.370	<50	<0.16	Yes	Yes	7.2	7.2	9.4	42
3/16/2021	0.716			6.3		<50	<0.16	No	No	7.3	7.3	9.2	
3/17/2021	0.716			6.3		<50	<0.16	No	Yes	7.1	7.1	11	38
3/18/2021	0.657			7.1		<50	<0.16	No	No	7.2	7.2	12	
3/19/2021	0.696					<50	<0.16	No	No	7.4	7.4		
3/20/2021	0.716												
3/21/2021	0.716			6.7								10	
3/22/2021	0.716			7.0	0.380	<50	<0.16	Yes	Yes	7.2	7.2	9.4	52
3/23/2021	0.717			6.7		<50	<0.16	No	No	7.2	7.2	9.6	
3/24/2021	0.717			6.7		<50	<0.16	No	Yes	7.1	7.1	10	46
3/25/2021 (1)	0.702			6.3	0.320	<50	<0.16	No	No	7.4	7.4	7.4	
3/26/2021 (1)	0.717			6.3		<50	<0.16	No	No	7.4	7.4		
3/27/2021 (1)	0.717												
3/28/2021 (1)	0.717											5.4	
3/29/2021 (1)	0.717			7.2		<50	<0.16	Yes	Yes	7.3	7.3	7.1	34
3/30/2021 (1)	0.717			5.9	0.370	<50	<0.16	No	No	7.3	7.3	8.4	
3/31/2021 (1)	0.717			6.6	0.370	<50	<0.16	No	Yes	7.3	7.3	5.4	48
Discharged	22.084												
Monthly Avg				6.5								9.3	

(1) 3/25/21-3/31/21 - Gelman has been experiencing fluctuating/increasing bromate concentrations in the effluent composite sample and conducted additional testing of the system to determine the root cause of these changes. To test whether iron was interfering with the composite sample, Gelman placed a particulate filter upstream of the composite sampler. It was later discovered that the filter had a carbon coating, which was affecting concentrations of 1,4-dioxane in the water captured by the composite sampler. Therefore, the laboratory results from the composite samples during this period are likely lower than actual effluent 1,4-dioxane concentrations. The values reported for 1,4-dioxane effluent concentrations on 3/25, 3/26, 3/29, 3/30, and 3/31 are from grab samples collected on those dates. Bromate effluent concentrations were generally consistent between the composite and grab samples. Therefore, the values reported for bromate in effluent represent 24-hour composite concentrations.