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Date: March 17, 2023
BRRTS No.: 02-38-580694
Our Ref: 30129347
Subject: **GETS Startup Monitoring** – Report 10, Week 13 through Week 16
Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI

Dear Ms. Sellwood,

This letter report is a performance summary of the Groundwater Extraction and Treatment System (GETS) during **Startup Monitoring**. As detailed in the *Long-Term Monitoring Plan for the Groundwater Extraction and Treatment System* (Arcadis, 2021), the startup monitoring phase is for the first 6 months of the GETS operation. The GETS began operating November 14, 2022 initiating the beginning of startup monitoring. Short Term Monitoring will begin on May 15, 2023. There are 12 reports to be submitted during startup monitoring: weekly reports for the first eight weeks and then monthly for months 3 through 6.

SUMMARY OF NEW DATA

Tables 1 through 10 summarize the available operational data and monitoring activities for this reporting period. Tables 1 through 7 summarize the performance data for the GETS and the extraction wells, while Tables 8 and 9 summarize Ditch B Flow and concentration data. Table 10 summarizes observed groundwater and surface water interaction in Ditch B. Planned Table 11 containing the analytical data will be provided when available.

Final optimization of clarifier and sedimentation processes occurred during week 9. The GETS has been running continuously since the afternoon of January 11, except for brief periods for routine maintenance. The average treatment rates each week are summarized in Table 6. It should be noted that small differences exist between the total volumes of water at the influent of the GETS, the effluent of the GETS, and total volume discharged to Ditch B reported on Table 6 are due to water being recirculated within the treatment system. For example, during week 12, the average treatment rate (185.9) equals the discharge to Ditch B, which equals the total pumping from the extraction wells (187.6). Small discrepancies reflect storage in the treatment system, the piping, and differences in the accuracy of the 10 flow meters used to make the calculations.

Water level data were downloaded from the transducers installed in the monitoring wells adjacent to the extraction wells on March 3rd. Average water levels for the first 15 weeks of operation are summarized in Table 4 with the data from weeks 5 through 16 presented as a time series on Figures 3 through 5. The changes in water levels on the figures coincide with changes in pumping rates of the extraction wells. The graphs on the figures are organized based on location relative to Ditch B. Figures 3 and 4 summarize water levels near the 6 extraction wells near Ditch B organized from north to south. Prior to continuous operations, water levels were highest at MW-EX-3 (592 feet) in the north, decreasing to 590 feet PZ-52-41 (EX-7), increasing to 591.5 feet at PZ-53-40 (EX-9). This u-shaped pattern of water levels forms a trough in the water table, focusing groundwater eastward. This u-shaped pattern has remained unchanged during continuous operations with water levels declining by an

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Wisconsin Department of Natural Resources
March 17, 2023

average of 1.35 feet near the extraction wells. Figure 5 presents graphs of the three extraction wells upgradient of Ditch B. Groundwater elevations at these wells are approximately 5-feet higher than the wells along Ditch B. Water levels in these wells have declined by an average of 1.87 feet during continuous operations

Monthly water chemistry data from the operating extraction wells are summarized in Table 5. Three extraction wells, EX-4, EX-6 and EX-9, were not operating during all samplings and surrogate samples were collected from adjacent monitoring wells MW-EX-4, PZ-51-38 and PZ-53-40, respectively, when necessary. The groundwater data showing peak concentrations along Ditch B are in wells EX-5, EX-6 and EX-7. These wells are located in the center of the PFAS plume moving eastward as well as in the center of the trough in the water table.

These concentrations and water level observations were the basis for recent adjustments that were made to GETS operations. The initial nominal treatment rate was approximately 190 gpm. On Sunday February 26 pumping rates were increased 5 gpm at wells EX-5, EX-6 and EX-7. Rates were increased an additional 5 gpm in each well on March 1. These changes have increased nominal pumping rates by 30 gpm to recover more PFAS from groundwater. The effect of these changes decreased water levels approximately 1 foot as shown on the respective graphs on Figures 3 and 4.

The next transducer download of water level data is scheduled for early April and will be summarized in Report 11. The fifth sampling event at the extraction wells occurred during week 16. The next sampling of the extraction wells is scheduled for week 20 of startup monitoring.

SUMMARY OF CUMULATIVE DATA

The available data for water samples at the GETS and Ditch B are summarized in Tables 7 and 9. The concentration of PFOA plus PFOS at the influent of the treatment system was 7,230 ng/L during week 10, the first full week of continuous operation. All effluent concentrations have been non-detect (ND) for PFOA and PFOS in all samples collected during startup monitoring. Concentrations of PFOA plus PFOS in Ditch B have declined to 345 ng/L during week 16. There has been a steady decline in surface water concentrations since the onset of continuous groundwater extraction. The lowest concentration measured in Ditch B during startup monitor was 151 ng/L measured during week 14. Concentrations are expected to decline further as the zone-of-capture continues to develop with long term operation of the GETS.

CLOSING

Subsequent reporting of GETS monitoring during system startup is monthly. The next report will be Report 11 covering the period from the end of Week 17 through Week 20. Report 11 is scheduled to be uploaded on April 14th. If you have questions or comments, please reach out.

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Wisconsin Department of Natural Resources
March 17, 2023

Sincerely,

Arcadis U.S., Inc.



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S. Potter

Attachments:

Tables

- Table 1 Pumping time per extraction well each week of Startup Monitoring (hours per week)
- Table 2 Volume of water pumped per extraction well each week of Startup Monitoring (gallons per week)
- Table 3 Maximum pumping rate per extraction well each week of Startup Monitoring (gallons per minute)
- Table 4 Water levels at each extraction well monitoring point during Startup Monitoring (feet NAD88)
- Table 5 Concentration of PFOA/PFOS measured at each extraction well during Startup Monitoring (ng/L)
- Table 6 Summary of treatment plant operations each week of Startup Monitoring
- Table 7 Summary of GETS influent and effluent PFAS results each week of Startup Monitoring (ng/L)
- Table 8 Summary of average daily flow in Ditch B during Startup Monitoring (gallons per minute)
- Table 9 Summary of PFAS concentrations in Ditch B each week of Startup Monitoring (ng/L)
- Table 10 Summary of temporary streambed piezometers data during Startup Monitoring (feet from top of casing)
- Table 11 *Analytical results at Startup Monitoring locations (to be included after data validation)*

Figures

- Figure 1 GETS startup monitoring locations
 - Figure 2 Ditch B water depth, estimated stream flow and precipitation
 - Figure 3 Water level elevations near extraction wells along Ditch B
 - Figure 4 Water level elevations near extraction wells along Ditch B
 - Figure 5 Water level elevations near extraction wells upgradient of Ditch B
- EDDs submitted electronically bi-weekly

Table 1. Pumping time per extraction well each week of **Startup Monitoring (hrs per week)**



Starting Day	Week	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9
14-Nov-2022	1	72.0	72.0	0.0	0.0	72.0	0.0	20.0	20.0	47.0
21-Nov-2022	2	71.0	71.0	0.0	0.0	71.0	0.0	71.0	71.0	0.0
28-Nov-2022	3	49.0	49.0	19.0	0.0	49.0	0.0	49.0	49.0	0.0
5-Dec-2022	4	58.8	59.3	59.3	29.0	59.3	42.0	59.3	59.3	0.0
12-Dec-2022	5	21.5	21.5	22.0	22.0	22.0	22.0	22.0	22.0	0.0
19-Dec-2022	6	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	0.0
26-Dec-2022	7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0
2-Jan-2023	8	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	0.0
9-Jan-2023	9	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	0.0
16-Jan-2023	10	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	0.0
23-Jan-2023	11	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	0.0
30-Jan-2023	12	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	0.0
6-Feb-2023	13	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	0.0
13-Feb-2023	14	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	0.0
20-Feb-2023	15	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	0.0
27-Feb-2023	16	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	1.0
6-Mar-2023	17	-	-	-	-	-	-	-	-	-
13-Mar-2023	18	-	-	-	-	-	-	-	-	-
20-Mar-2023	19	-	-	-	-	-	-	-	-	-
27-Mar-2023	20	-	-	-	-	-	-	-	-	-
3-Apr-2023	21	-	-	-	-	-	-	-	-	-
10-Apr-2023	22	-	-	-	-	-	-	-	-	-
17-Apr-2023	23	-	-	-	-	-	-	-	-	-
24-Apr-2023	24	-	-	-	-	-	-	-	-	-
1-May-2023	25	-	-	-	-	-	-	-	-	-
8-May-2023	26	-	-	-	-	-	-	-	-	-

Totals		1657	1658	1485	1436	1658	1449	1606	1606	48
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Table 2. Volume of water pumped per extraction well each week of **Startup Monitoring** (gallons per week)



Starting Day	Week	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9	Total Pumping
14-Nov-2022	1	98,516	81,370	-	-	97,548	-	28,402	28,442	57,702	391,980
21-Nov-2022	2	113,198	94,669	-	-	113,185	-	113,179	113,201	25	547,457
28-Nov-2022	3	85,862	74,588	28,967	-	85,742	-	85,912	85,895	-	446,966
5-Dec-2022	4	91,534	76,856	83,145	44,412	89,667	62,472	89,703	89,723	-	627,511
12-Dec-2022	5	32,628	25,969	32,653	32,623	32,127	32,163	32,145	32,144	-	252,453
19-Dec-2022	6	48,832	41,222	47,113	47,050	46,784	47,034	48,516	48,703	-	375,253
26-Dec-2022	7	6,632	5,609	6,379	6,373	6,344	6,376	6,624	6,629	-	50,964
2-Jan-2023	8	66,360	58,175	66,366	66,291	66,256	68,157	68,163	68,163	-	527,930
9-Jan-2023	9	214,024	157,305	214,186	214,192	214,187	214,296	211,514	211,563	-	1,651,266
16-Jan-2023	10	259,630	160,434	257,270	256,083	254,276	247,813	247,742	252,906	-	1,936,153
23-Jan-2023	11	259,909	151,159	260,176	257,991	257,317	256,618	256,442	253,165	-	1,952,777
30-Jan-2023	12	249,795	143,796	250,792	249,901	249,713	248,905	247,832	249,238	1,194	1,891,165
6-Feb-2023	13	260,244	143,429	257,274	257,604	255,815	256,999	258,073	258,561	8	1,948,007
13-Feb-2023	14	252,141	141,420	252,444	252,734	253,316	253,270	256,144	259,420	-	1,920,889
20-Feb-2023	15	238,684	134,006	238,968	239,062	243,942	244,388	244,278	242,946	-	1,826,274
27-Feb-2023	16	249,736	135,757	249,941	248,690	341,391	341,509	341,415	256,994	1,328	2,166,761
6-Mar-2023	17	-	-	-	-	-	-	-	-	-	-
13-Mar-2023	18	-	-	-	-	-	-	-	-	-	-
20-Mar-2023	19	-	-	-	-	-	-	-	-	-	-
27-Mar-2023	20	-	-	-	-	-	-	-	-	-	-
3-Apr-2023	21	-	-	-	-	-	-	-	-	-	-
10-Apr-2023	22	-	-	-	-	-	-	-	-	-	-
17-Apr-2023	23	-	-	-	-	-	-	-	-	-	-
24-Apr-2023	24	-	-	-	-	-	-	-	-	-	-
1-May-2023	25	-	-	-	-	-	-	-	-	-	-
8-May-2023	26	-	-	-	-	-	-	-	-	-	-

Totals (x1,000)	2,528	1,626	2,246	2,173	2,608	2,280	2,536	2,458	60	18,514
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Table 4. Water levels at each extraction well monitoring point each week of **Startup Monitoring** (feet NAD88)



Starting Day	Week	PZ-45-31 (EX-1)	MW-EX-2 (EX-2)	MW-EX-3 (EX-3)	MW-EX-4 (EX-4)	MW-EX-5 (EX-5)	PZ-51-38 (EX-6)	PZ-52-41 (EX-7)	PZ-55-64 (EX-8)	PZ-53-40 (EX-9)
Pre-Startup	0	598.54	597.42	591.47	590.73	586.28	590.29	590.01	596.46	591.02
14-Nov-2022	1	597.62	596.74	591.84	591.06	589.47	590.61	590.29	596.69	591.42
21-Nov-2022	2	597.49	596.60	591.69	590.71	589.36	590.43	589.91	595.99	591.59
28-Nov-2022	3	597.64	596.67	591.57	590.64	589.61	590.39	589.94	596.09	591.53
5-Dec-2022	4	597.60	596.62	591.27	590.31	589.56	589.91	589.85	596.01	591.03
12-Dec-2022	5	598.34	597.23	591.72	591.06	590.42	590.57	590.31	596.69	591.91
19-Dec-2022	6	598.33	597.24	591.51	590.82	590.23	590.42	590.19	596.65	591.84
26-Dec-2022	7	598.60	597.44	591.64	590.96	590.44	590.56	590.28	596.84	591.84
2-Jan-2023	8	598.15	597.07	591.63	590.96	589.93	590.30	590.30	596.57	591.89
9-Jan-2023	9	596.62	596.03	590.90	590.33	588.31	589.46	589.71	595.44	591.79
16-Jan-2023	10	595.92	595.72	590.69	590.19	587.89	589.33	589.57	595.03	591.83
23-Jan-2023	11	595.77	595.66	590.50	590.00	587.73	589.13	589.39	594.87	591.63
30-Jan-2023	12	595.74	595.60	590.37	589.88	587.73	589.14	589.27	594.72	591.34
6-Feb-2023	13	595.50	595.44	590.28	589.81	587.62	589.09	589.16	594.50	591.27
13-Feb-2023	14	595.49	595.38	590.43	589.97	587.73	589.25	589.27	594.49	591.48
20-Feb-2023	15	595.55	595.37	590.37	589.87	587.77	589.21	589.25	594.52	591.40
27-Feb-2023	16	-	-	-	-	-	-	-	-	-
6-Mar-2023	17	-	-	-	-	-	-	-	-	-
13-Mar-2023	18	-	-	-	-	-	-	-	-	-
20-Mar-2023	19	-	-	-	-	-	-	-	-	-
27-Mar-2023	20	-	-	-	-	-	-	-	-	-
3-Apr-2023	21	-	-	-	-	-	-	-	-	-
10-Apr-2023	22	-	-	-	-	-	-	-	-	-
17-Apr-2023	23	-	-	-	-	-	-	-	-	-
24-Apr-2023	24	-	-	-	-	-	-	-	-	-
1-May-2023	25	-	-	-	-	-	-	-	-	-
8-May-2023	26	-	-	-	-	-	-	-	-	-

Note: Pre-Startup water level elevations collected the week of November 7th. Pre-Startup pump testing may have influenced measurements.

Table 5. Concentration of PFOA/PFOS measured at each extraction well during **Startup Monitoring** (ng/L)



Starting Day	Week	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9
16-Sep-2022	0	11,000/1,000	5,600/350	4,900/490	11,000/940	2,100/180	18,000/1,400	9,300/470	17,000/1,200	90/2.1
14-Nov-2022	1	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
21-Nov-2022	2	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
28-Nov-2022	3	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
5-Dec-2022	4	10,000/860	6,400/450	2,400/270	50,000/3,100*	16,000/1,300	18,000/2,100*	11,000/510	14,000/1,200	65/3.0*
12-Dec-2022	5	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
19-Dec-2022	6	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
26-Dec-2022	7	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
2-Jan-2023	8	9,400/850	5,100/330	1,700/150	9,500/650	15,000/1,300	20,000/1,400	8,800/500	12,000/1,100	40/3.7*
9-Jan-2023	9	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
16-Jan-2023	10	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
23-Jan-2023	11	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
30-Jan-2023	12	6,700/660	4,200/370	1,800/160	4,600/350	18,000/1,400	16,000/1,100	13,000/580	15,000/1,600	65/2.1
6-Feb-2023	13	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
13-Feb-2023	14	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
20-Feb-2023	15	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
27-Feb-2023	16	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
6-Mar-2023	17	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
13-Mar-2023	18	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
20-Mar-2023	19	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
27-Mar-2023	20	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
3-Apr-2023	21	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
10-Apr-2023	22	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
17-Apr-2023	23	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
24-Apr-2023	24	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
1-May-2023	25	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--
8-May-2023	26	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--

Notes: Data is scheduled to be collected monthly (once every 4 weeks) at each extraction well. Wells EX-4, EX-6, and EX-9 could not be sampled during Week 4. Adjacent wells MW-EX-4, PZ-51-38 and PZ-53-40, respectively were sampled as surrogates.

Table 6. Summary of treatment plant operations each week of **Startup Monitoring**



Starting Day	Week	Total volume at influent (gal)	Total volume at effluent (gal)	Total volume discharged to Ditch B (gal)	Weekly Uptime (%)	Maximum treatment rate (gpm)	Average treatment rate (gpm)
14-Nov-2022	1	472,728	417,899	386,083	43%	125.0	38.3
21-Nov-2022	2	607,850	551,162	535,774	42%	120.0	53.2
28-Nov-2022	3	506,836	455,986	439,862	29%	125.0	43.6
5-Dec-2022	4	682,594	636,639	616,763	35%	201.0	61.2
12-Dec-2022	5	277,569	310,735	255,597	13%	195.0	25.4
19-Dec-2022	6	401,859	340,389	371,189	19%	200.0	36.8
26-Dec-2022	7	61,120	57,365	50,776	3%	200.0	5.0
2-Jan-2023	8	550,150	539,405	519,026	27%	197.0	51.5
9-Jan-2023	9	1,688,032	1,683,834	1,637,933	83%	197.0	162.5
16-Jan-2023	10	1,979,928	1,967,721	1,918,925	100%	190.5	190.4
23-Jan-2023	11	2,012,535	1,998,503	1,934,988	100%	190.5	192.0
30-Jan-2023	12	1,963,386	1,941,373	1,873,503	96%	190.5	185.9
6-Feb-2023	13	2,020,156	1,993,873	1,925,064	100%	190.5	191.0
13-Feb-2023	14	2,025,719	1,983,035	1,899,939	100%	190.5	188.5
20-Feb-2023	15	1,941,144	1,891,595	1,800,272	95%	205.5	178.6
27-Feb-2023	16	2,292,912	2,236,432	2,142,228	100%	245.0	212.5
6-Mar-2023	17	-	-	-	-	-	-
13-Mar-2023	18	-	-	-	-	-	-
20-Mar-2023	19	-	-	-	-	-	-
27-Mar-2023	20	-	-	-	-	-	-
3-Apr-2023	21	-	-	-	-	-	-
10-Apr-2023	22	-	-	-	-	-	-
17-Apr-2023	23	-	-	-	-	-	-
24-Apr-2023	24	-	-	-	-	-	-
1-May-2023	25	-	-	-	-	-	-
8-May-2023	26	-	-	-	-	-	-
Totals (x1000)		19,484.5	19,005.9	18,307.9	-	-	-

Note: The difference in the totals is due to water recirculation within the treatment system, water storage in the treatment system and piping, and differences in instrument accuracy.

Table 7. Summary of GETS influent and effluent PFAS results each week of **Startup Monitoring** (ng/L)



Starting Day	Week	Summary of Influent PFAS Concentrations (ng/L)		Summary of Effluent PFAS Concentrations (ng/L)	
		PFOA	PFOS	PFOA	PFOS
7-Nov-2022	0	18,000	1,300	ND (<0.77)	ND (<0.49)
14-Nov-2022	1	6,300	520	ND (<0.79)	ND (<0.50)
21-Nov-2022	2	11,000	620	ND (<0.74)	ND (<0.47)
28-Nov-2022	3	7,200	550	ND (<0.75)	ND (<0.48)
5-Dec-2022	4	11,000	940	ND (<0.77)	ND (<0.49)
12-Dec-2022	5	10,000	730	ND (<0.75)	ND (<0.47)
19-Dec-2022	6	11,000	890	ND (<0.76)	ND (<0.48)
26-Dec-2022	7	11,000	780	ND (<0.80)	ND (<0.51)
2-Jan-2023	8	9,000	750	ND (<0.73)	ND (<0.46)
9-Jan-2023	9	9,000	870	ND (<0.75)	ND (<0.48)
16-Jan-2023	10	6,400	830	ND (<0.81)	ND (<0.51)
23-Jan-2023	11	-	-	-	-
30-Jan-2023	12	-	-	-	-
6-Feb-2023	13	-	-	-	-
13-Feb-2023	14	-	-	-	-
20-Feb-2023	15	-	-	-	-
27-Feb-2023	16	-	-	-	-
6-Mar-2023	17	-	-	-	-
13-Mar-2023	18	-	-	-	-
20-Mar-2023	19	-	-	-	-
27-Mar-2023	20	-	-	-	-
3-Apr-2023	21	-	-	-	-
10-Apr-2023	22	-	-	-	-
17-Apr-2023	23	-	-	-	-
24-Apr-2023	24	-	-	-	-
1-May-2023	25	-	-	-	-
8-May-2023	26	-	-	-	-

Table 8. Summary of average daily flow in Ditch B each week of **Startup Monitoring** (gpm)



Starting Day	Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7-Nov-2022	0	978	809	797	974	2,721	980	834
14-Nov-2022	1	758	898	1,176	991	877	782	733
21-Nov-2022	2	754	711	709	770	748	778	716
28-Nov-2022	3	671	784	1,020	748	694	683	599
5-Dec-2022	4	627	565	534	548	571	530	599
12-Dec-2022	5	535	547	1,301	3,556	1,469	969	835
19-Dec-2022	6	793	732	658	701	671	638	561
26-Dec-2022	7	510	502	551	693	1,101	838	778
2-Jan-2023	8	734	1,326	1,979	1,277	1,081	921	951
9-Jan-2023	9	831	819	834	864	830	793	777
16-Jan-2023	10	1,239	1,730	1,062	1,103	1,028	895	851
23-Jan-2023	11	842	803	798	794	764	679	631
30-Jan-2023	12	596	534	565	513	445	504	494
6-Feb-2023	13	481	721	598	592	556	549	593
13-Feb-2023	14	593	974	1,828	802	667	630	656
20-Feb-2023	15	648	594	560	536	579	585	587
27-Feb-2023	16	588	642	655	637	620	642	697
6-Mar-2023	17	-	-	-	-	-	-	-
13-Mar-2023	18	-	-	-	-	-	-	-
20-Mar-2023	19	-	-	-	-	-	-	-
27-Mar-2023	20	-	-	-	-	-	-	-
3-Apr-2023	21	-	-	-	-	-	-	-
10-Apr-2023	22	-	-	-	-	-	-	-
17-Apr-2023	23	-	-	-	-	-	-	-
24-Apr-2023	24	-	-	-	-	-	-	-
1-May-2023	25	-	-	-	-	-	-	-
8-May-2023	26	-	-	-	-	-	-	-

Note: Data collected at Ditch B surface water treatment plant

Table 9. Summary of PFAS concentrations in Ditch B each week of **Startup Monitoring** (ng/L)



Starting Day	Week	Summary of PFAS Concentrations (ng/L)	
		PFOA	PFOS
7-Nov-2022	0	1,500	120
14-Nov-2022	1	1,600	99
21-Nov-2022	2	1,900	120
28-Nov-2022	3	1700	100
5-Dec-2022	4	1600	100
12-Dec-2022	5	1300	86
19-Dec-2022	6	1700	82
26-Dec-2022	7	1300	81
2-Jan-2023	8	2300	120
9-Jan-2023	9	1800	110
16-Jan-2023	10	920	68
23-Jan-2023	11	920	55
30-Jan-2023	12	810	58
6-Feb-2023	13	650	71
13-Feb-2023	14	120	31
20-Feb-2023	15	630	44
27-Feb-2023	16	310	35
6-Mar-2023	17	-	-
13-Mar-2023	18	-	-
20-Mar-2023	19	-	-
27-Mar-2023	20	-	-
3-Apr-2023	21	-	-
10-Apr-2023	22	-	-
17-Apr-2023	23	-	-
24-Apr-2023	24	-	-
1-May-2023	25	-	-
8-May-2023	26	-	-

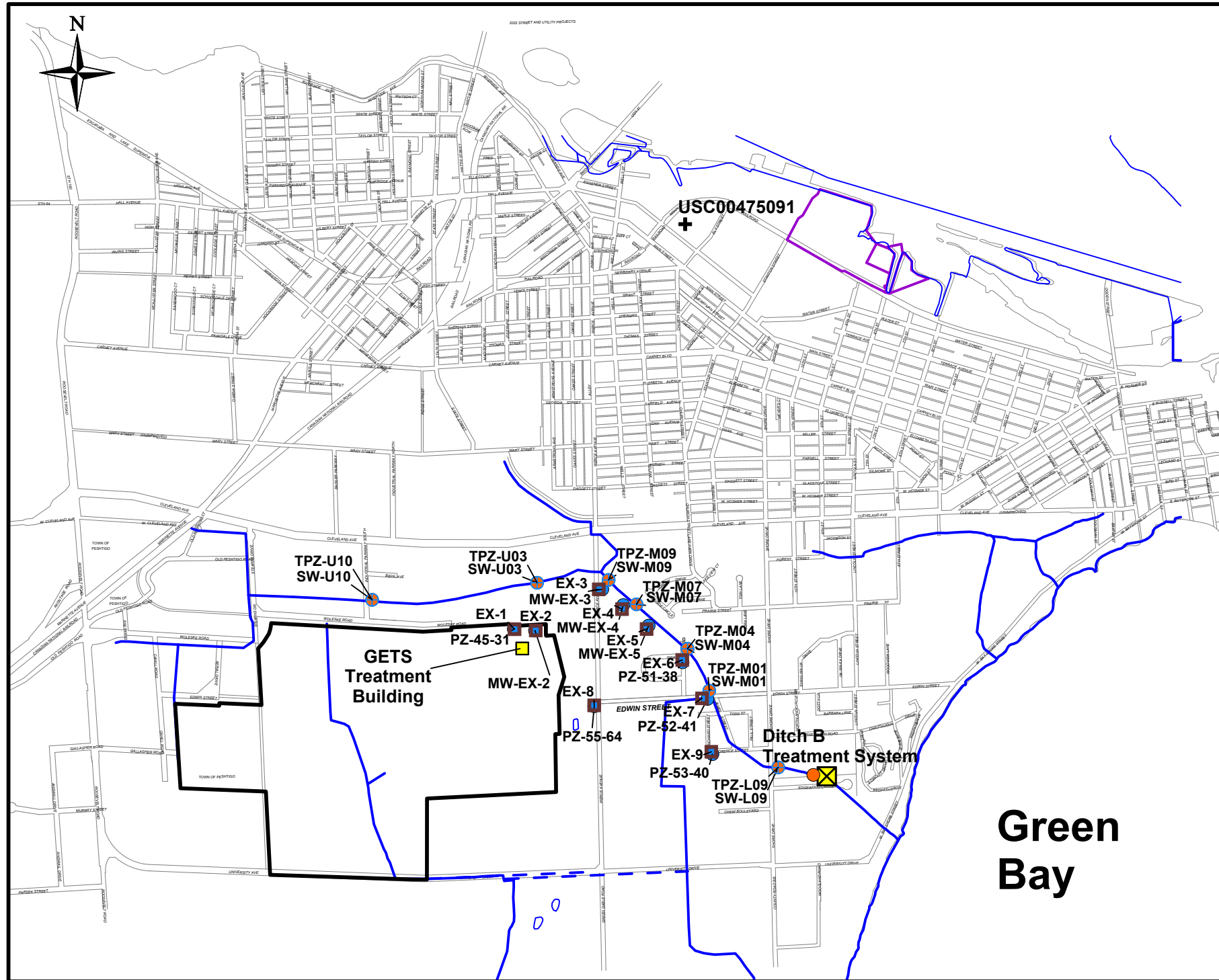
Note: Data collected from influent of Ditch B treatment system

Table 10. Summary of temporary streambed piezometers data during **Startup Monitoring** (feet from top of casing). Locations shown on Figure 1.



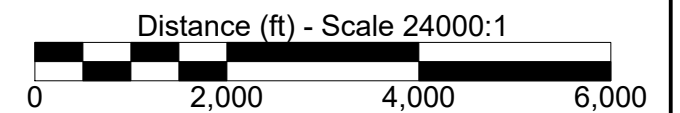
Date	Week	Location L09			Location M01			Location M04			Location M07			Location M09			Location U03			Location U10		
		Inner DTW	Outer DTW	Delta	Inner DTW	Outer DTW	Delta	Inner DTW	Outer DTW	Delta	Inner DTW	Outer DTW	Delta	Inner DTW	Outer DTW	Delta	Inner DTW	Outer DTW	Delta	Inner DTW	Outer DTW	Delta
1-Nov-2022	0	3.85	4.03	0.18	1.85	1.91	0.06	1.74	1.77	0.03	4.68	4.99	0.31	4.06	4.62	0.56	1.80	1.99	0.19	1.28	2.08	0.80
-	-																					
6-Dec-2022	4	3.82	3.95	0.13	1.76	2.05	0.29	1.80	1.85	0.05	4.70	5.09	0.39	4.21	4.74	0.53	1.73	1.96	0.23	1.52	2.10	0.58
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Note: All measurements are depth to water (DTW) from top of casing. Delta is outer minus inner with positive differences indicating groundwater is discharging to surface water.

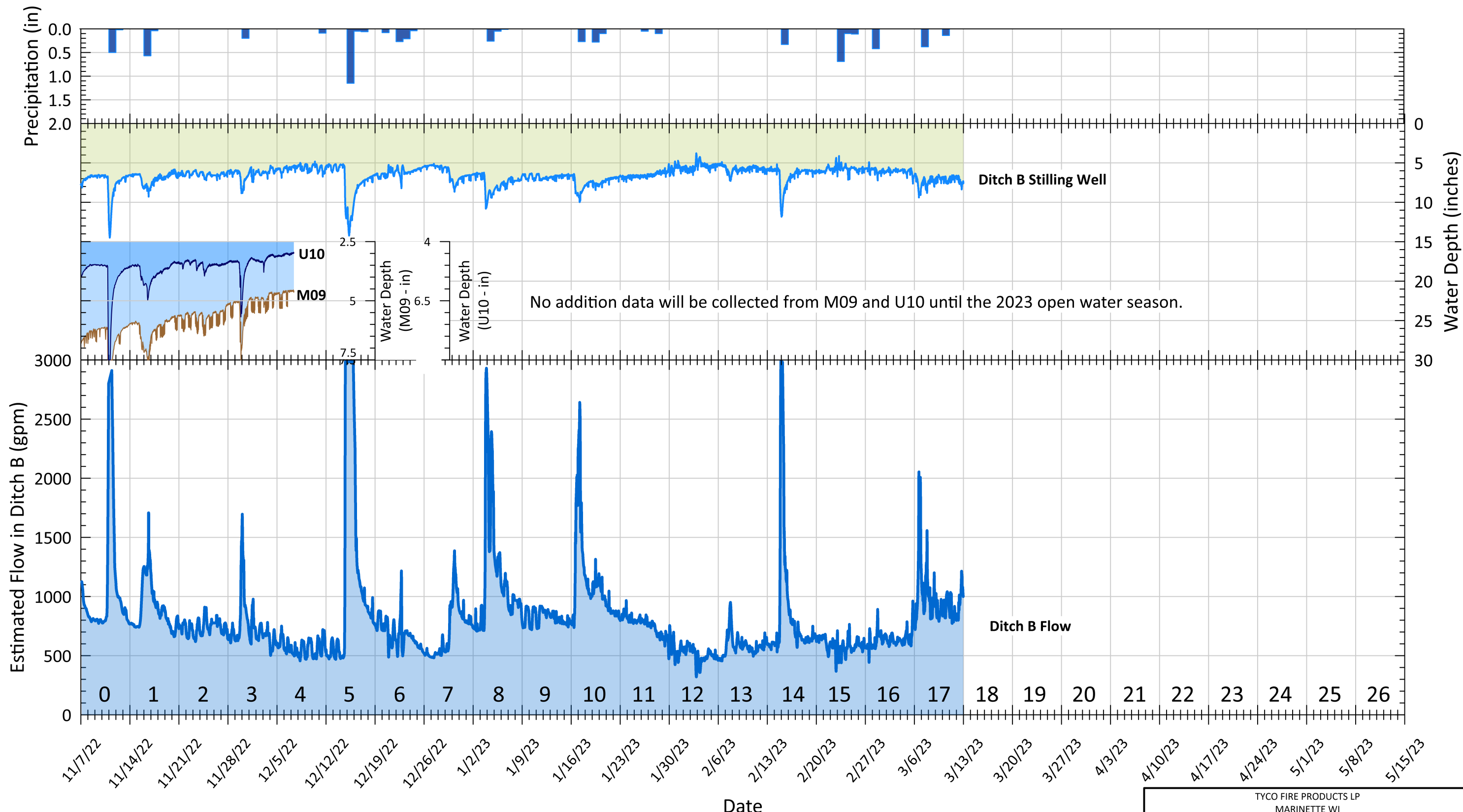


Legend

-  FTC Site Area
-  Stanton St. Site Barrier Walls
-  Ditches/Streams
-  GETS Performance Monitoring Well
-  GETS Extraction Well
-  NOAA Weather Station
-  Ditch B Treatment System
-  Ditch B Groundwater and Surface Water Location
-  Ditch B Surface Water Location
-  GETS Treatment Building



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GETS STARTUP MONITORING LOCATIONS	
	FIGURE 1



Notes:

Precipitation: NOAA, Station USC00475091

Water Depth: Stilling wells are located near Ditch B treatment system, station M09 near the GETS outfall, and U10 near Industrial Parkway. Locations are shown on Figure 1.

Estimated Flow: Calculated from rating curve near the Ditch B treatment system.

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Ditch B Water Depth, Estimated Stream Flow and Precipitation	
	FIGURE 2

