

WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-1E

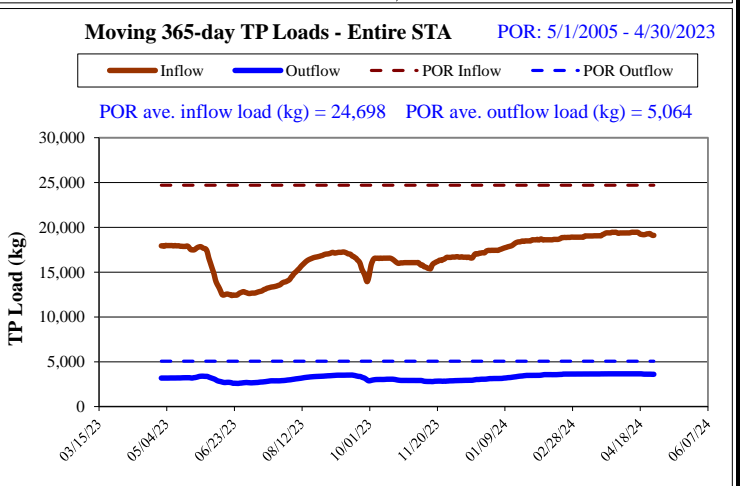
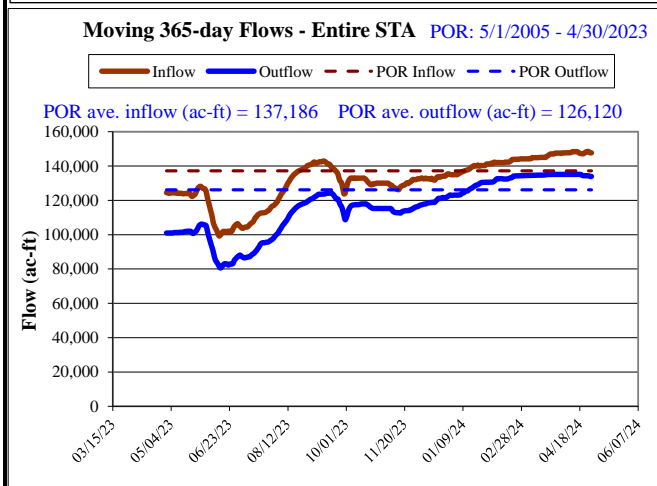
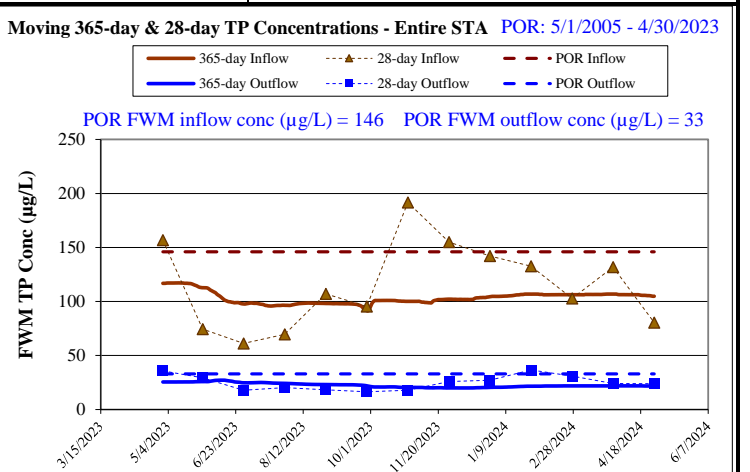
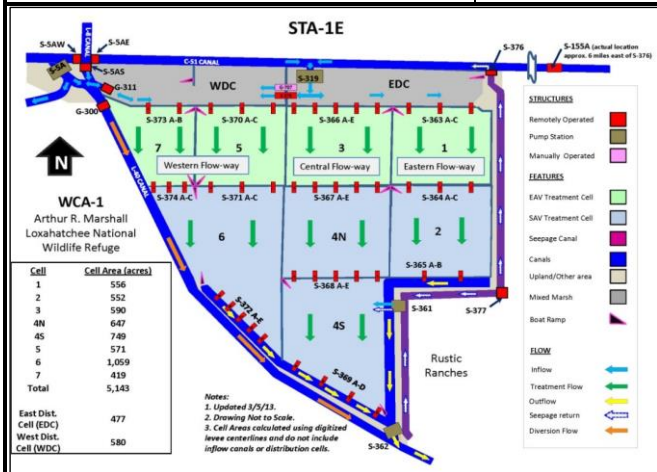
DATE 4/29/2024

LATEST DATA

04/28/2024

WY2024 to Date Flow-weighted Mean Conc (µg/L)		Inflow: 105	Outflow: 22	Entire STA	W Flow-way	C Flow-way	E Flow-way
365-day Values	Inflow Volume (ac-ft)	147,670	no flow	72,953	61,792		
	Inflow Load (kg)	19,103	N/A	9,279	4,947		
	Inflow Flow-weighted Mean Conc (µg/L)	105	N/A	103	65		
	Outflow Volume (ac-ft)	133,921	2,907	60,311	66,025		
	Outflow Load (kg)	3,599	N/A	2,545	1,101		
	Outflow Flow-weighted Mean Conc (µg/L)	22	N/A	34	14		
365-day load reduction (kg)				15,504	no flow	6,734	3,846
28-day Values	Inflow Volume (ac-ft)	3,571	no flow	712	766		
	Inflow Load (kg)	354	N/A	64	54		
	Inflow Flow-weighted Mean Conc (µg/L)	80	N/A	73	57		
	Outflow Volume (ac-ft)	23	-9	no flow	no flow		
	Outflow Load (kg)	1	0	no flow	N/A		
	Outflow Flow-weighted Mean Conc (µg/L)	24	23	no flow	N/A		
7-day Values	Inflow Volume (ac-ft)	1,571	no flow	25	no flow		
	Inflow Flow-weighted Mean Conc (µg/L)	68	no flow	45	no flow		
	Outflow Volume (ac-ft)	19	no flow	no flow	no flow		
	Outflow Flow-weighted Mean Conc (µg/L)	24	no flow	no flow	N/A		
365-day Phosphorus Loading Rate (g/m²/yr)				1.5	N/A	1.3	N/A
6-month trend in outflow TP concentration (- means decrease; µg/L)				1	no flow	0	0

Redirected to STA-1 Inflow Basin for the last 365 days through G-311		Volume (ac-ft)	8,981	Load (kg)	1,144	Conc (µg/L)	103
Flow-Way Information (Research projects, stage-duration, vegetation, etc.)							
W Flow-way		C Flow-way			E Flow-way		
On-line		On-line			Off-line		
On-line with restrictions for post-construction vegetation grow in starting on 12/27/2023.				Off-line for rehydration and vegetation establishment following erosion repair effective 3/18/2024.			



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WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-1W

DATE 4/29/2024

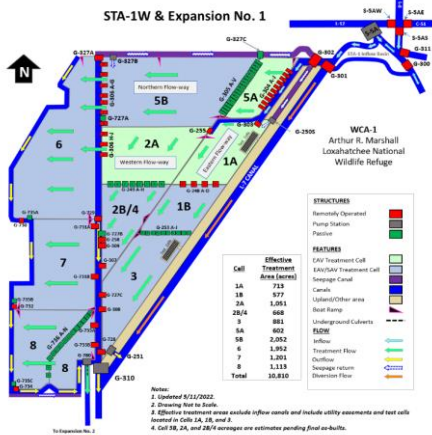
LATEST DATA

4/28/2024

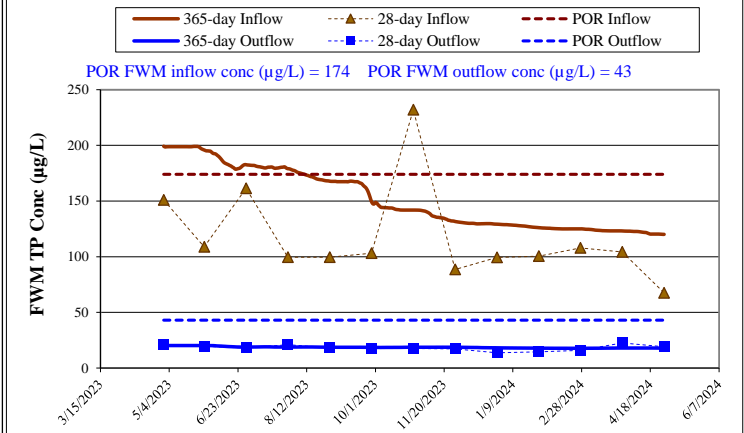
WY2024 to Date Flow-weighted Mean Conc (µg/L)		Inflow: 120	Outflow: 18	Entire STA	W Flow-way	E Flow-way	N Flow-way	Cell 6	Cell 7+8
365-day Values	Inflow Volume (ac-ft)	193,813	55,800	158,298	11,075	111,667	112,512		
	Inflow Load (kg)	28,700	7,556	19,689	2,095	3,309	3,601		
	Inflow Flow-weighted Mean Conc (µg/L)	120	110	101	153	24	26		
	Outflow Volume (ac-ft)	227,218	57,953	151,994	14,232	144,845	82,495		
	Outflow Load (kg)	5,008	1,334	5,359	217	2,843	1,851		
	Outflow Flow-weighted Mean Conc (µg/L)	18	19	29	12	16	18		
365-day load reduction (kg)				23,693	6,223	14,330	1,878	467	1,749
28-day Values	Inflow Volume (ac-ft)	5,044	899	3,443	no flow	795	4,204		
	Inflow Load (kg)	420	71	274	no flow	14	182		
	Inflow Flow-weighted Mean Conc (µg/L)	68	64	64	no flow	14	35		
	Outflow Volume (ac-ft)	3,095	291	3,913	795	937	2,422		
	Outflow Load (kg)	73	13	169	14	21	69		
	Outflow Flow-weighted Mean Conc (µg/L)	19	37	35	14	18	23		
7-day Values	Inflow Volume (ac-ft)	46	no flow	no flow	no flow	363	64		
	Inflow Flow-weighted Mean Conc (µg/L)	53	no flow	no flow	no flow	15	37		
	Outflow Volume (ac-ft)	534	64	no flow	363	326	236		
Outflow Flow-weighted Mean Conc (µg/L)		18	37	no flow	15	18	22		
365-day Phosphorus Loading Rate (g/m²/yr)				0.7	1.1	2.2	0.1	0.4	0.4
6-month trend in outflow TP concentration (- means decrease; µg/L)				-1	0	0	-2	0	0
Redirection to STA-1E over the last 365 days Volume (ac-ft)				0	Load (kg)	0	Conc (µg/L)	no flow	
Redirection to S-5AS over the last 365 days Volume (ac-ft)				198,352	Load (kg)	34,036	Conc (µg/L)	139	

Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

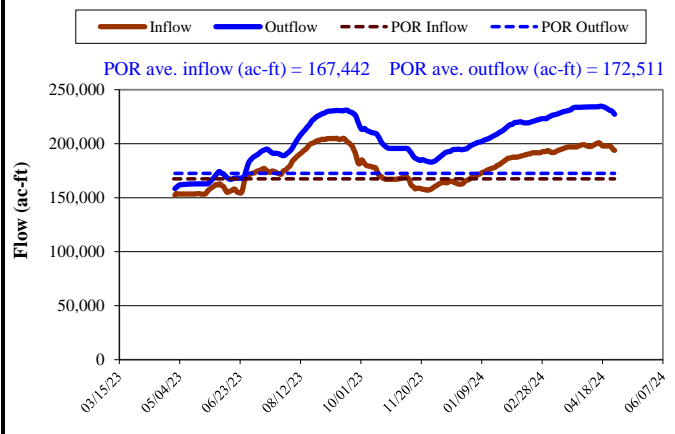
W Flow-way	E Flow-way	N Flow-way	Cells 6, 7, and 8
On-line	On-line	On-line	On-line
		Online with restrictions for vegetation management activities effective 5/16/2022.	



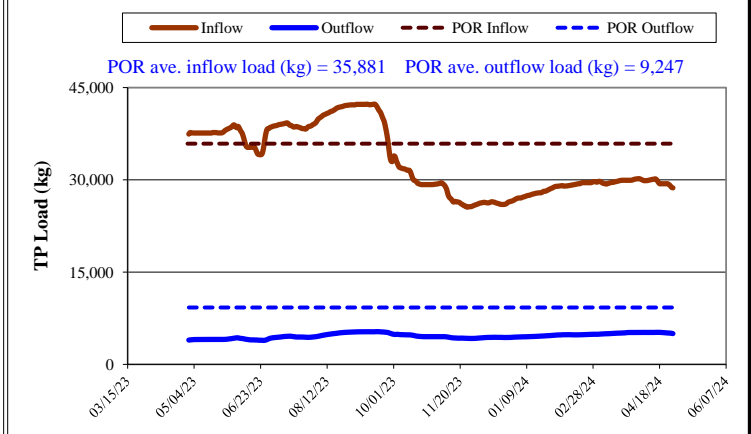
Moving 365-day & 28-day TP Concentrations - Entire STA



Moving 365-day Flows - Entire STA



Moving 365-day TP Loads - Entire STA



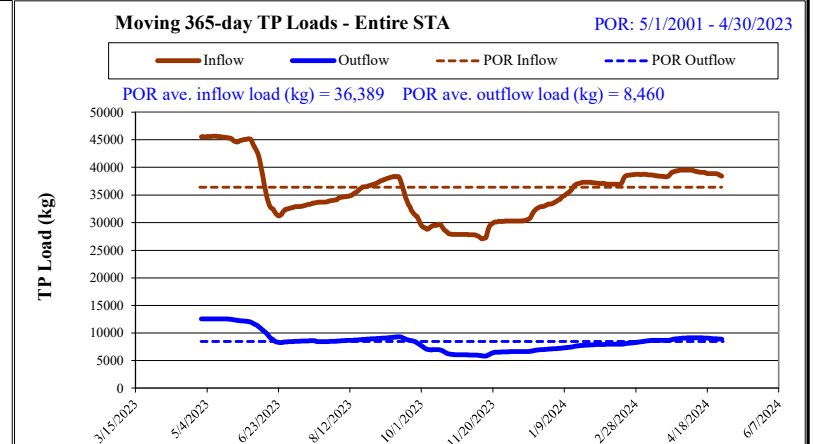
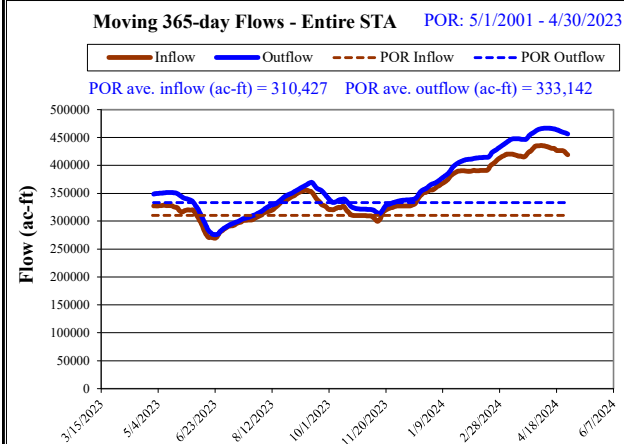
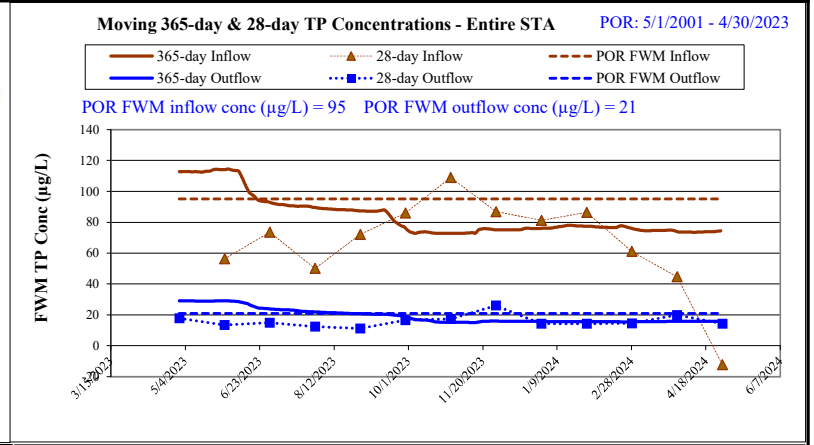
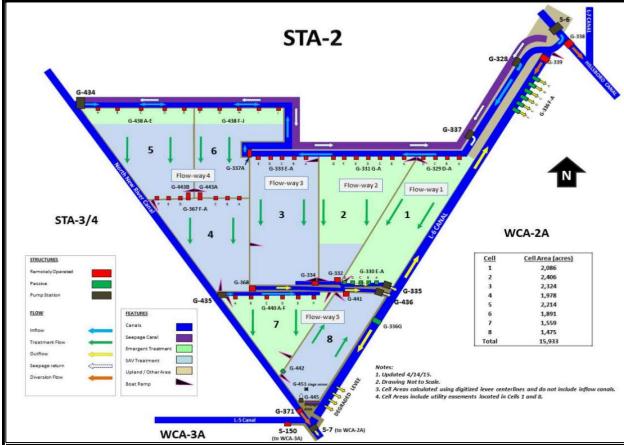
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WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-2		DATE 4/29/2024	LATEST DATA					4/28/2024	
WY2024 to Date Flow-weighted Mean Conc (µg/L)		Inflow: 74	Outflow: 16	Entire STA	Flow-way 5	Flow-way 4	Flow-way 3	Flow-way 2	Flow-way 1
365-day Values	Inflow Volume (ac-ft)			418,624	37,688	162,715	86,890	88,538	78,757
	Inflow Load (kg)			38,401	1,886	14,358	7,473	8,372	8,883
	Inflow Flow-weighted Mean Conc (µg/L)			74	41	72	70	77	91
	Outflow Volume (ac-ft)			456,024	35,131	145,907	100,563	100,463	105,290
	Outflow Load (kg)			8,867	427	1,674	2,732	2,531	1,355
	Outflow Flow-weighted Mean Conc (µg/L)			16	10	9	22	20	10
365-day load reduction (kg)				29,534	1,459	12,684	4,741	5,840	7,528
28-day Values	Inflow Volume (ac-ft)			568	73	409	880	no flow	294
	Inflow Load (kg)			-9	2	12	27	no flow	12
	Inflow Flow-weighted Mean Conc (µg/L)			-12	27	24	24	no flow	32
	Outflow Volume (ac-ft)			7,761	913	3,376	2,058	244	1,003
	Outflow Load (kg)			137	13	53	48	9	13
	Outflow Flow-weighted Mean Conc (µg/L)			14	11	13	19	29	11
7-day Values	Inflow Volume (ac-ft)			no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)			no flow	no flow	no flow	no flow	no flow	no flow
	Outflow Volume (ac-ft)			307	no flow	165	no flow	no flow	9
Outflow Flow-weighted Mean Conc (µg/L)			15	no flow	19	no flow	no flow	13	
365-day phosphorus loading rate (g/m ² /yr)				0.6	0.2	0.6	0.8	1.2	1.2
6-month trend in outflow TP concentration (- means decrease; µg/L)				-1	0	0	0	-6	-1

Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

Flow-way 5	Flow-way 4	Flow-way 3	Flow-way 2	Flow-way 1
On-line	On-line	On-line	On-line	On-line
	On-line with restrictions for vegetation managements activities starting on 10/28/2019.		On-line with restrictions for vegetation management activities starting on 08/14/2023.	On-line with restrictions for a topographic survey starting on 4/21/2024. Contains nest(s) of MBTA-protected species.



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WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-3/4

DATE 4/29/2024

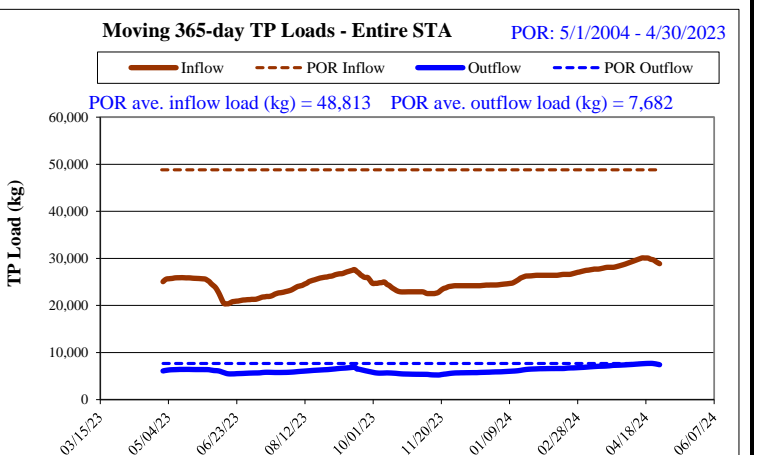
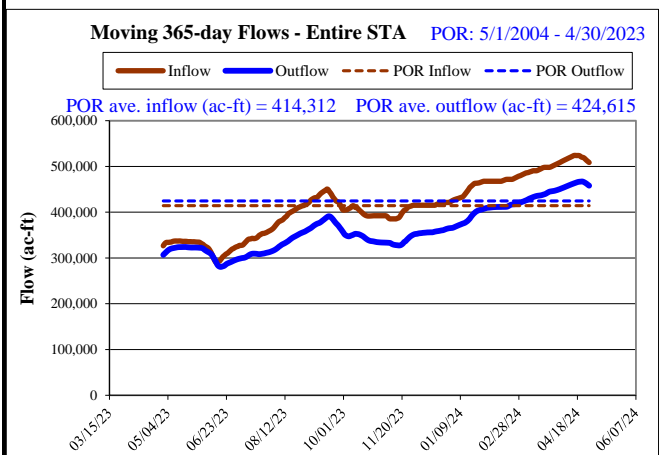
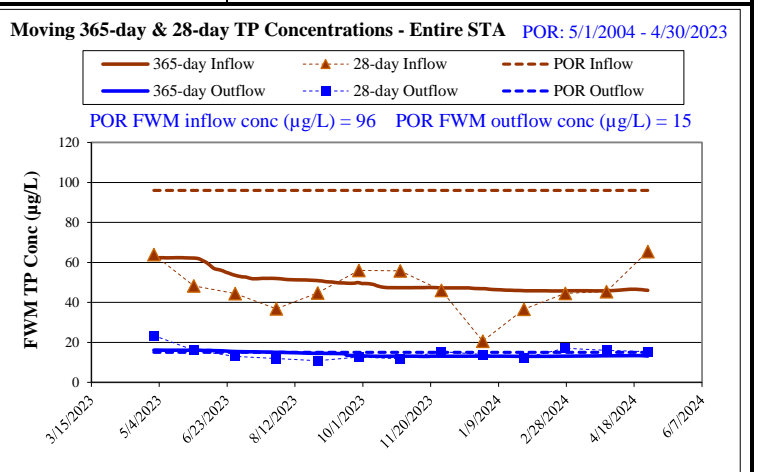
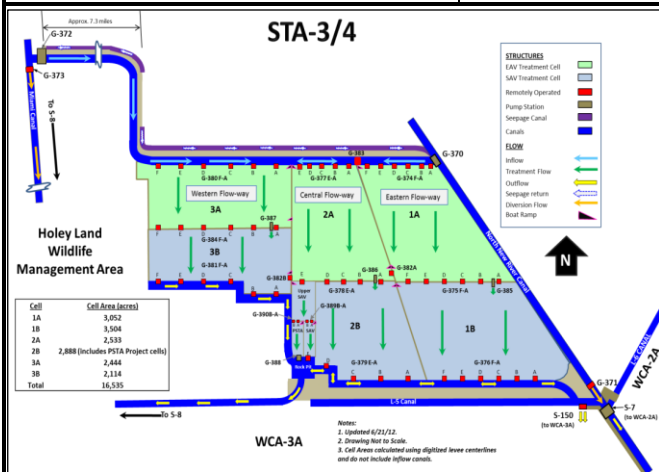
LATEST DATA

4/28/2024

WY2024 to Date Flow-weighted Mean Conc (µg/L)		Inflow: 64	Outflow: 13	Entire STA	W Flow-way	C Flow-way	E Flow-way
365-day Values	Inflow Volume (ac-ft)	508,661	215,332	265,800	27,529		
	Inflow Load (kg)	43,960	13,458	13,880	1,534		
	Inflow Flow-weighted Mean Conc (µg/L)	70	51	42	45		
	Outflow Volume (ac-ft)	457,918	201,396	216,418	40,104		
	Outflow Load (kg)	7,419	3,412	3,103	905		
Outflow Flow-weighted Mean Conc (µg/L)	13	14	12	18			
365-day load reduction (kg)				36,541	10,046	10,778	630
28-day Values	Inflow Volume (ac-ft)	27,417	8,864	9,248	9,305		
	Inflow Load (kg)	2,954	724	787	703		
	Inflow Flow-weighted Mean Conc (µg/L)	87	66	69	61		
	Outflow Volume (ac-ft)	20,998	7,904	5,853	7,241		
	Outflow Load (kg)	398	159	109	129		
Outflow Flow-weighted Mean Conc (µg/L)	15	16	15	14			
7-day Values	Inflow Volume (ac-ft)	8,006	2,604	2,693	2,710		
	Inflow Flow-weighted Mean Conc (µg/L)	69	60	66	64		
	Outflow Volume (ac-ft)	2,027	770	458	799		
Outflow Flow-weighted Mean Conc (µg/L)	17	17	19	14			
365-day Phosphorus Loading Rate (g/m²/yr)				0.8	0.7	0.6	N/A
6-month trend in outflow TP concentration (- means decrease; µg/L)				0	0	0	-3

Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

W Flow-way	C Flow-way	E Flow-way
On-line	On-line	On-line
		On-line with restrictions for vegetation management activities effective 8/29/2023.



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WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-5/6

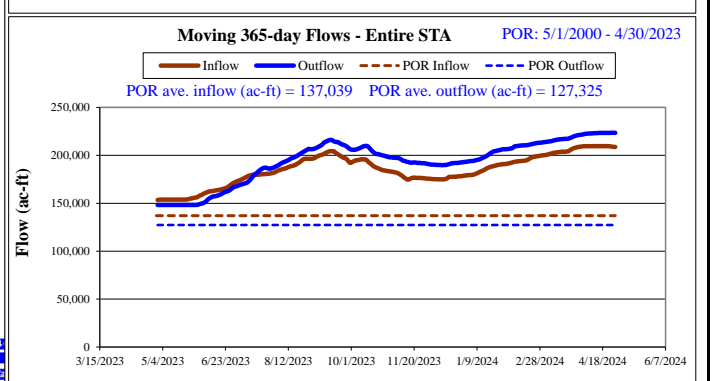
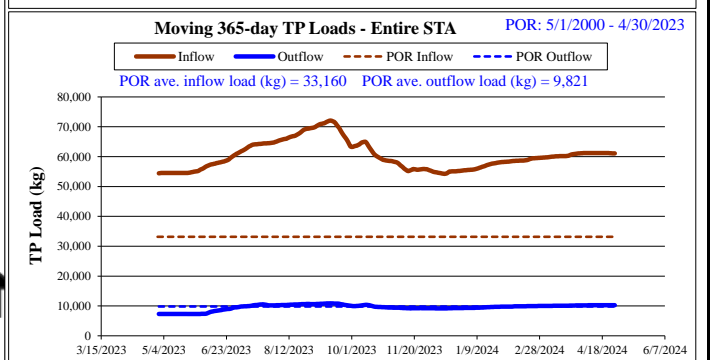
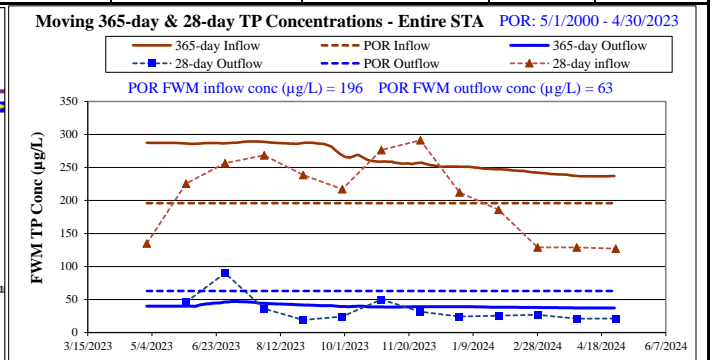
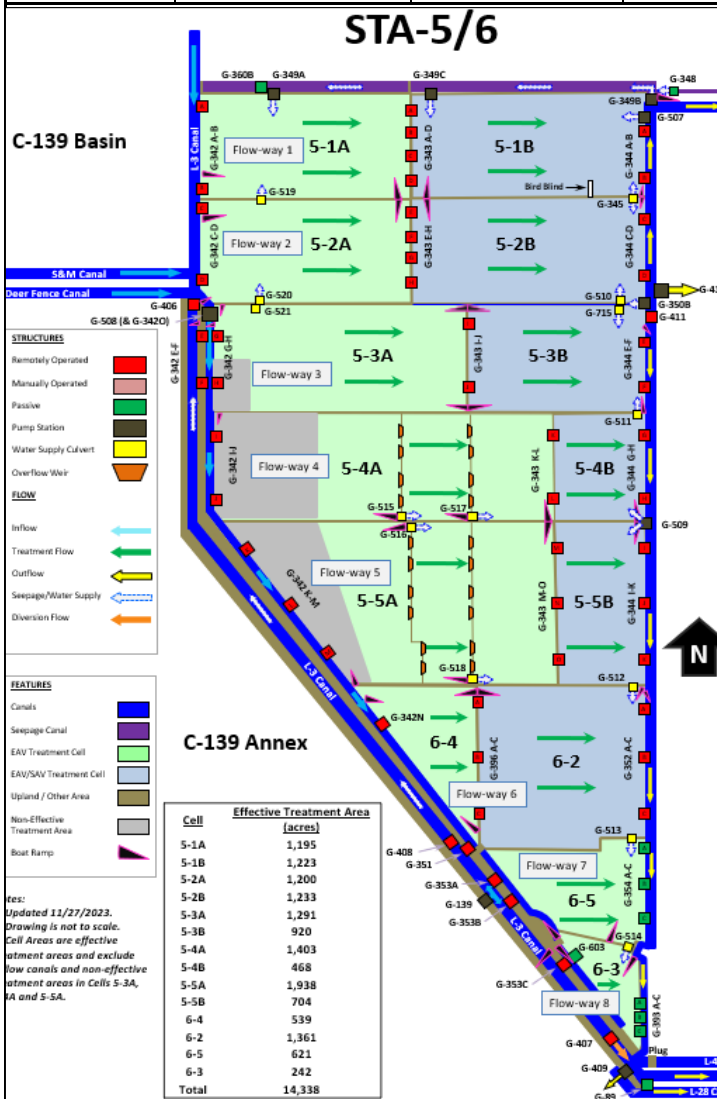
DATE 4/29/2024

LATEST DATA 4/28/2024

WY2024 to Date Flow-weighted Mean Conc (µg/L)		Inflow: 237	Outflow: 37	Entire STA	Flow-way 1	Flow-way 2	Flow-way 3	Flow-way 4	Flow-way 5	Flow-way 6	Flow-way 7	Flow-way 8
365-day Values	Inflow Volume (ac-ft)	208,804	23,306	55,558	42,153	12,492	49,530	31,255	4,614	2,111		
	Inflow Load (kg)	61,061	5,182	13,364	14,692	3,853	13,373	5,339	982	304		
	Inflow Flow-weighted Mean Conc (µg/L)	237	180	195	283	250	219	138	173	117		
	Outflow Volume (ac-ft)	223,487	23,275	59,860	59,614	16,856	55,102	1,538	5,307	1,935		
	Outflow Load (kg)	10,244	453	1,175	3,110	1,215	3,816	130	285	60		
	Outflow Flow-weighted Mean Conc (µg/L)	37	16	16	42	58	56	68	44	25		
365-day load reduction (kg)				50,816	4,728	12,189	11,582	2,638	9,557	5,209	697	243
28-day Values	Inflow Volume (ac-ft)	548	23	470	5	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Load (kg)	86	4	74	1	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	127	136	128	196	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Outflow Volume (ac-ft)	2,118	48	1,084	180	70	735	no flow	no flow	no flow	no flow	no flow
	Outflow Load (kg)	56	1	23	5	2	24	no flow	no flow	no flow	no flow	no flow
7-day Values	Outflow Flow-weighted Mean Conc (µg/L)	21	15	17	24	24	27	no flow	no flow	no flow	no flow	no flow
	Inflow Volume (ac-ft)	no flow	no flow	no flow	5	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	no flow	no flow	no flow	196	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Outflow Volume (ac-ft)	90	no flow	no flow	no flow	no flow	90	no flow	no flow	no flow	no flow	no flow
6-month trend in outflow TP concentration (- means decrease; µg/L)	Outflow Flow-weighted Mean Conc (µg/L)	30	no flow	no flow	no flow	no flow	30	no flow	no flow	no flow	no flow	no flow
	365-day phosphorus loading rate (g/m²/yr)	1.1	0.5	1.4	1.6	0.5	1.3	0.7	0.4	0.3		
Inflows to Rotenberger over the last 365 days		Volume (ac-ft)	46	TP Load (kg)	4	TP Conc (µg/L)	68					

Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

Flow-way 1	Flow-way 2	Flow-way 3	Flow-way 4	Flow-way 5	Flow-way 6	Flow-way 7	Flow-way 8
On-line	On-line	On-line	On-line	On-line	On-line	On-line	On-line



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