



STA	Total Area kac	New Area kac-ft	Inflows Flow kac-ft	Load mt	Conc ppb	Outflows		Hydraulic Loads			Depth Frequencies		Depths		Settling		PLR g/m2-yr	
						Flow kac-ft	Load mt	Mean cm/d	30-d Max cm/d	CV	<10 cm %	<20 cm %	Mean cm	Min cm	Max cm	Rate m/yr		
STA1E	5.0		108	19.7	148	101	1.4	11.1	1.8	7.4	0.70	0%	0%	51	33	78	27	0.97
STA1W	12.4	5.9	313	67.1	174	306	4.2	11.1	2.1	11.3	0.70	0%	0%	70	34	113	34	1.33
STA2B	15.5		337	45.6	110	342	5.2	12.4	1.8	9.1	0.97	0%	0%	50	24	81	22	0.73
STA34	16.3		494	40.0	66	484	7.4	12.4	2.5	11.3	0.84	0%	1%	53	7	97	23	0.61
STA5	9.1	0.9	125	17.8	115	104	1.5	11.7	1.2	4.9	0.95	0%	2%	54	6	83	15	0.48
STA6	5.4		70	9.9	115	46	0.7	11.7	1.1	4.6	0.95	1%	12%	54	6	83	14	0.45
East	17.4	5.9	421	86.8	167	407	5.6	11.1	2.0	10.2	0.70	0%	0%	65	34	103	32	1.23
Central	31.8	0.0	830	85.6	83	826	12.6	12.4	2.2	10.2	0.90	0%	0%	51	15	89	23	0.66
West	14.5	0.9	195	27.6	115	150	2.2	11.7	1.1	4.8	0.95	1%	6%	54	6	83	14	0.47
Total	63.7	6.8	1446	200.0	112	1383	20.4	11.9	1.9	9.0	0.86	0%	2%	55	18	92	23	0.78

* LTFWM with Yearly FWM Constrained to Specified Minimum Value; Reflects Model Tendency to Under-Predict TP in the Lower Ranges

Performance Measures

STA	LTFWM ppb	90% CL ppb	Freq > 19 ppb **		Constrained LTFWMs ppb*		
			Mean	90% CL	>10	>12	>14
STA1E	11.1	13.3	5%	13%	11.4	12.3	14.0
STA1W	11.1	13.3	5%	13%	11.7	12.9	14.4
STA2B	12.4	14.9	10%	21%	12.5	13.0	14.1
STA34	12.4	14.8	9%	21%	12.4	13.0	14.2
STA5	11.7	14.1	7%	17%	12.2	13.2	14.4
STA6	11.7	14.1	7%	17%	12.1	13.0	14.2
East	11.1	13.3	5%	13%	11.6	12.8	14.3
Central	12.4	14.9	9%	21%	12.5	13.0	14.2
West	11.7	14.1	7%	17%	12.2	13.1	14.4
Total	11.9	14.3	8%	18%	12.2	12.9	14.3

**Frequencies Yearly FWM > 19 ppb. From WQBEL Derivation; Log-normal distribution, CV = 0.33

FEB Results	Total Source			FEB Bypass			FEB Inflow			FEB Outflow			FEB Release			FEB Outflow + Release			P Load g/m2-yr
	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	
FEB_S5A	311	67	174	150	32	170	161	35.2	178	0	0.0	#N/A	161	35.3	178	161	35.3	178	11.1
FEB_34	483	60	101	118	17	119	365	43.0	96	363	15.5	35	0	0.0	#N/A	363	15.5	35	0.8
FEB_56	198	37	150	116	22	154	82	14.5	144	79	5.6	58	0	0.0	#N/A	79	5.6	58	1.3
Total FEB	991	164	134	384	71	150	607	93	124	442	21	39	161	35	178	603	56	76	1.3

FEBs	Total Bypass+Bypass+Release				Reduction within FEB			Reduction within FEB			Net Reduction to STA			Bypass		FEB Depths (feet)		Depth Frequency % < 10 cm	
	Area kac	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow %	Load %	Conc %	Flow %	Load %	Conc %	Flow %	Load %	Mean	Min		Max
FEB_S5A	0.8	311	67	174	0	0	0	0%	0%	0%	0%	0%	0%	48%	47%	24.1	4.0	58.7	0%
FEB_34	13.5	481	33	55	-2	27	61	0%	64%	64%	0%	46%	60%	24%	29%	1.7	0.2	3.2	0%
FEB_56	2.8	195	28	115	-3	9	86	-3%	61%	60%	-1%	24%	58%	59%	60%	2.6	0.1	4.1	1%
Total FEB	17.1	987	127	105	-5	36	48	-1%	39%	39%	0%	22%	36%	39%	43%				

Basin	Sources			FEB Reduction			STA Inflows			STA Outflows			Overall Reduction			Net Reduction %		
	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow kac-ft	Load mt	Conc ppb	Flow %	Load %	Conc %
East	421	87	167	0	0	0	421	87	167	407	5.6	11	13	81	156	3%	94%	93%
Central	832	113	110	2	27	27	830	86	83	826	12.6	12	6	100	98	1%	89%	89%
West	198	36.5	150	3	9	35	195	28	115	150	2.2	12	48	34	138	24%	94%	92%
Total	1450	236	132	5	36	20	1446	200	112	1383	20.4	12	67	216	120	5%	91%	91%

Diagnostics East & Central Project sfwmd_ec_01mar2012 Min Depth = 5 ft (FEB_S5A), 0.5 ft (FEB34), Lake P, STA1WX = 5,900 ac, 80% SAV, A1 Emergent STA
 West Project sfwmd_w_01mar2012 C139 Conc 35% Reduc, C139A Not Treated in STA56, 2,800 ac Emergent FEB (400 ac with RES_3 treatment), STA56 PEW Calib

Yearly Variations

STA	Maximum Yearly					Coefficients of Variation						Geometric Means				
	Flow kaf	Load mt	FWM ppb	GM ppb	HLR cm/d	Min	Flow kaf	Load mt	FWM ppb	GM ppb	HLR cm/d	Flow kaf	Load mt	FWM ppb	GM ppb	HLR cm/d
STA1E	156	2.5	14.6	11.2	2.6	1.0	0.27	0.52	0.26	0.25	0.27	98.0	1.3	10.6	8.6	1.6
STA1W	526	10.7	18.6	12.7	3.5	1.2	0.27	0.51	0.28	0.25	0.27	296.4	3.7	10.2	8.0	2.0
STA2B	583	10.5	15.5	10.4	3.1	1.1	0.29	0.40	0.15	0.18	0.29	329.0	4.9	12.0	7.4	1.8
STA34	829	15.5	15.7	12.1	4.2	1.3	0.30	0.42	0.15	0.17	0.30	463.5	6.8	11.9	8.4	2.4
STA5	236	4.4	17.5	14.4	2.2	0.3	0.49	0.72	0.28	0.32	0.49	91.9	1.2	10.3	7.7	0.8
STA6	116	2.0	16.0	13.4	1.8	0.1	0.56	0.74	0.25	0.28	0.56	39.0	0.5	10.4	7.7	0.6

Reductions = Inflows - Outflows

STA or FEB	Flow			Percent of Inflows			Removed	
	kac-ft	Load mt	Conc ppb	Flow %	Load %	Conc %	Area kac	Load/Area g/m2-yr
STA1E	7	18	137	6%	93%	93%	5.0	0.9
STA1W	7	63	163	2%	94%	94%	12.4	1.2
STA2B	-5	40	97	-2%	89%	89%	15.5	0.6
STA34	10	33	53	2%	82%	81%	16.3	0.5
STA5	21	16	103	17%	92%	90%	9.1	0.4
STA6	23	9	103	34%	93%	90%	5.4	0.4
East	13	81	156	3%	94%	93%	17.4	1.2
Central	5	73	71	1%	85%	85%	31.8	0.6
West	45	25	103	23%	92%	90%	14.5	0.4
Total	63	180	100	4%	90%	89%	63.7	0.7
FEBSSA_N	0	0	#N/A	#DIV/0!	#DIV/0!	#N/A	0.0	#DIV/0!
FEB_S5A	0	0	0	0%	0%	0%	0.8	0.0
FEB_34	2	27	61	0%	64%	64%	13.5	0.5
FEB_56	3	9	86	3%	61%	60%	2.8	0.8
Total FEB	5	36	48	1%	39%	39%	17.1	0.5

Additional Diagnostics

	Flow kac-ft	Load mt	Conc ppb	% of Total Inflow	Flow	Load
STA2 CB Sources						
SSA to Hillsboro C	0.0	0.0	0.0	0%	0%	0%
NNR to Comp B	0.0	0.0	0.0	0%	0%	0%
S6 to STA2B	204.1	28.5	113.3	61%	63%	63%
SSA Runoff to STA2	44.5	11.7	213.0	13%	26%	26%
Total from S6/SSA	248.6	40.2	131.1	74%	88%	88%
From FEB34	88.1	5.3	49	26%	12%	12%
STA2B Inflow	336.7	45.6	109.6	100%	100%	100%

Audit Eastern Basin				Audit West Basin			
	Flow kac-ft	Load mt	Conc ppb		Flow kac-ft	Load mt	Conc ppb
TS_FEBSSA_N	0	0.0	0				
TS_FEBSSA	311	66.8	174	TS_FEB56	197.5	36.5	149.7
TS_STA1DW	2	0.2	95	Network Input - Yr	197.5	36.5	149.7
TS_STA1W	0	0.0	0	Network Input - Net	197.5	36.5	149.7
TS_STA1E	108	19.7	148	TS - Network In	0.0	0.0	0.0
TS_STA2B	249	40.2	131				
TS_FEB34	483	60.3	101	Max - Min	0.0	0.0	0.0
TS_STA34	0	0.0	0				
FEB34_OUT	101	12.5	100	STA Outflows	150.0	2.2	11.7
TS Inflow East+Central	1253	199.8	129	STA / Water Losses	44.7		
Network Input - From Yearly	1253	199.8	129	TS - STA Out - Loss	2.9		
Network Input - From Net	1253	199.8	129				
TS - Network In	0.0	0.0	0.0	C139 Annex Diverted	43.9	5.9	109.5
Max - Min	0.0	0.0	0.0	Total Outflows	194.0	8.1	33.9
STA Water Losses	18						
STA Outflows	1233	18	12				
L8 Diversion	41	7	140				
Total Outflow	1274	25	16				
TS In - Out + Div - Loss	2	182	113				
Network Inflow - Outflow	-21	175	113	???			