

Model Statistics, Data, and Plots

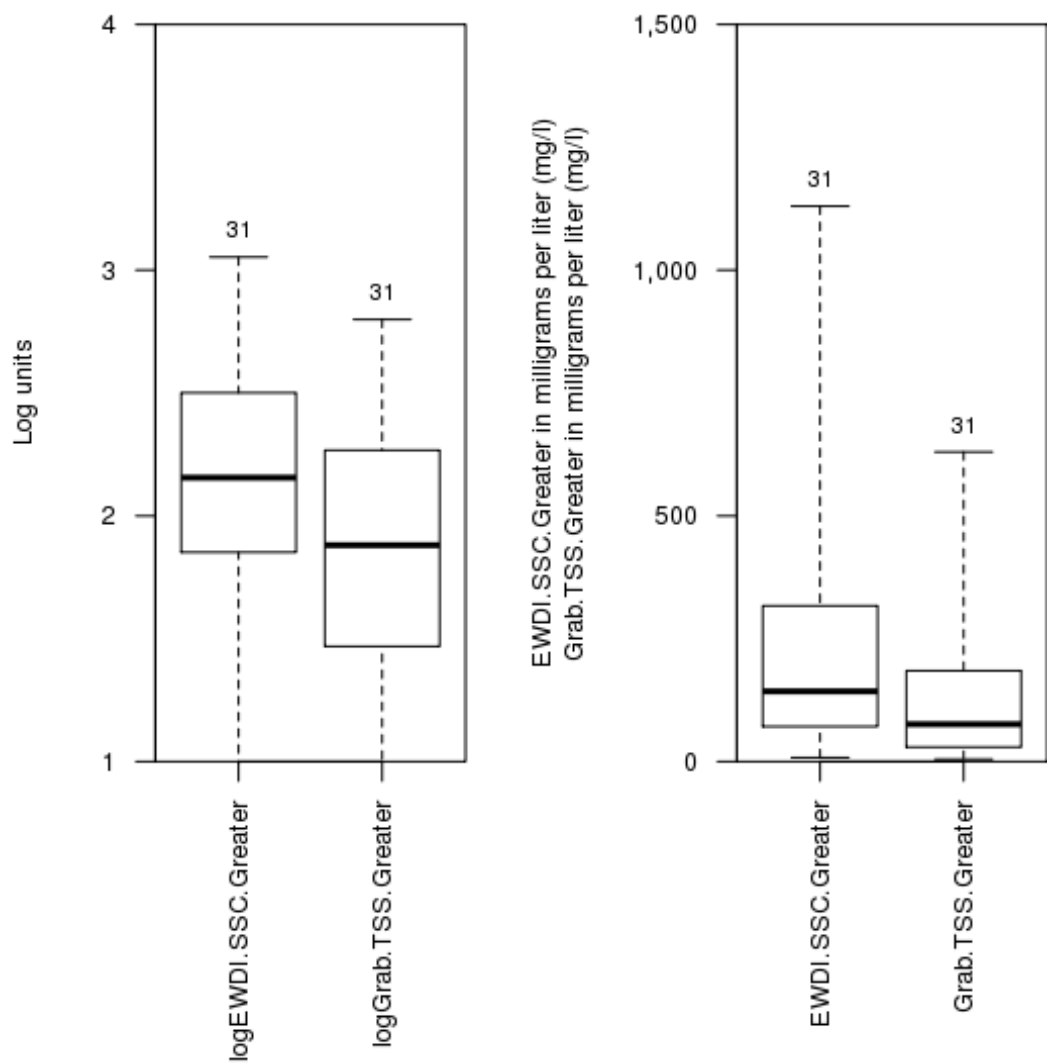
Model

$$\text{logEWDI.SSC.Greater} = + 0.942 * \text{logGrab.TSS.Greater} + 0.378$$

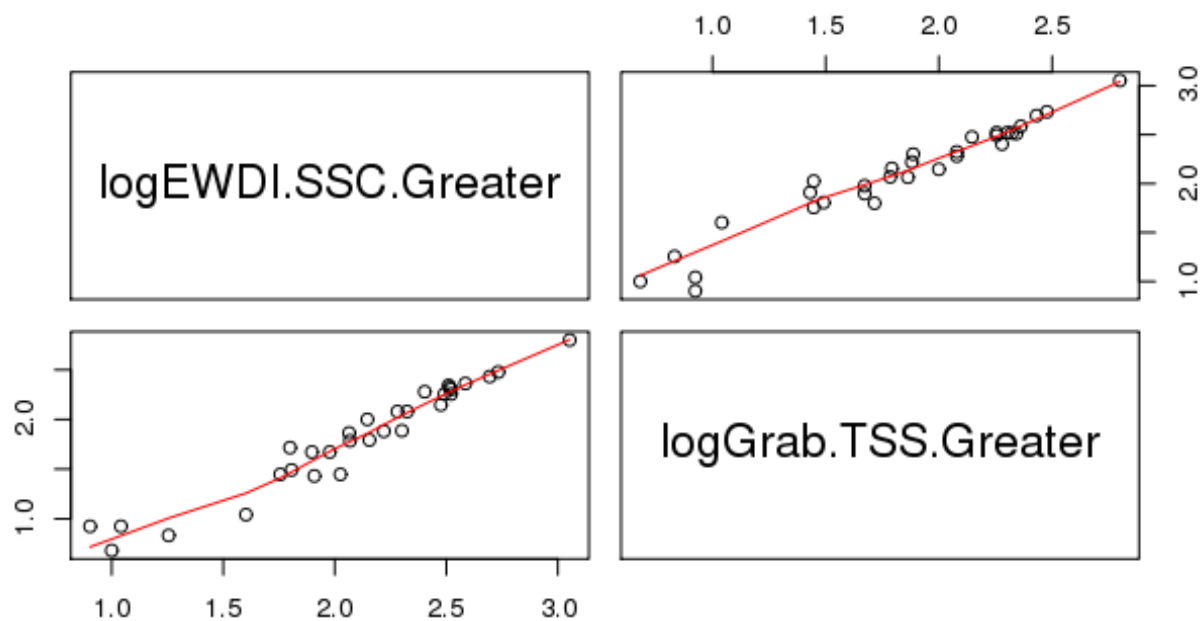
Variable Summary Statistics

	logEWDI.SSC.Greater	EWDI.SSC.Greater	logGrab.TSS.Greater	Grab.TSS.Greater
Minimum	0.903	8	0.681	4.8
1st Quartile	1.810	64	1.450	28.0
Median	2.160	143	1.880	76.0
Mean	2.100	214	1.830	121.0
3rd Quartile	2.510	324	2.280	190.0
Maximum	3.050	1130	2.800	630.0

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	31
Standard error (RMSE)	0.128
Average Model standard percentage error (MSPE)	29.9
Coefficient of determination (R ²)	0.942
Adjusted Coefficient of Determination (Adj. R ²)	0.94
Bias Correction Factor (BCF)	1.04

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.378	0.0822	4.6	7.69e-05
logGrab.TSS.Greater	0.942	0.0432	21.8	1.62e-19

Correlation Matrix

	Intercept	E.vars
Intercept	1.00	-0.96
E.vars	-0.96	1.00

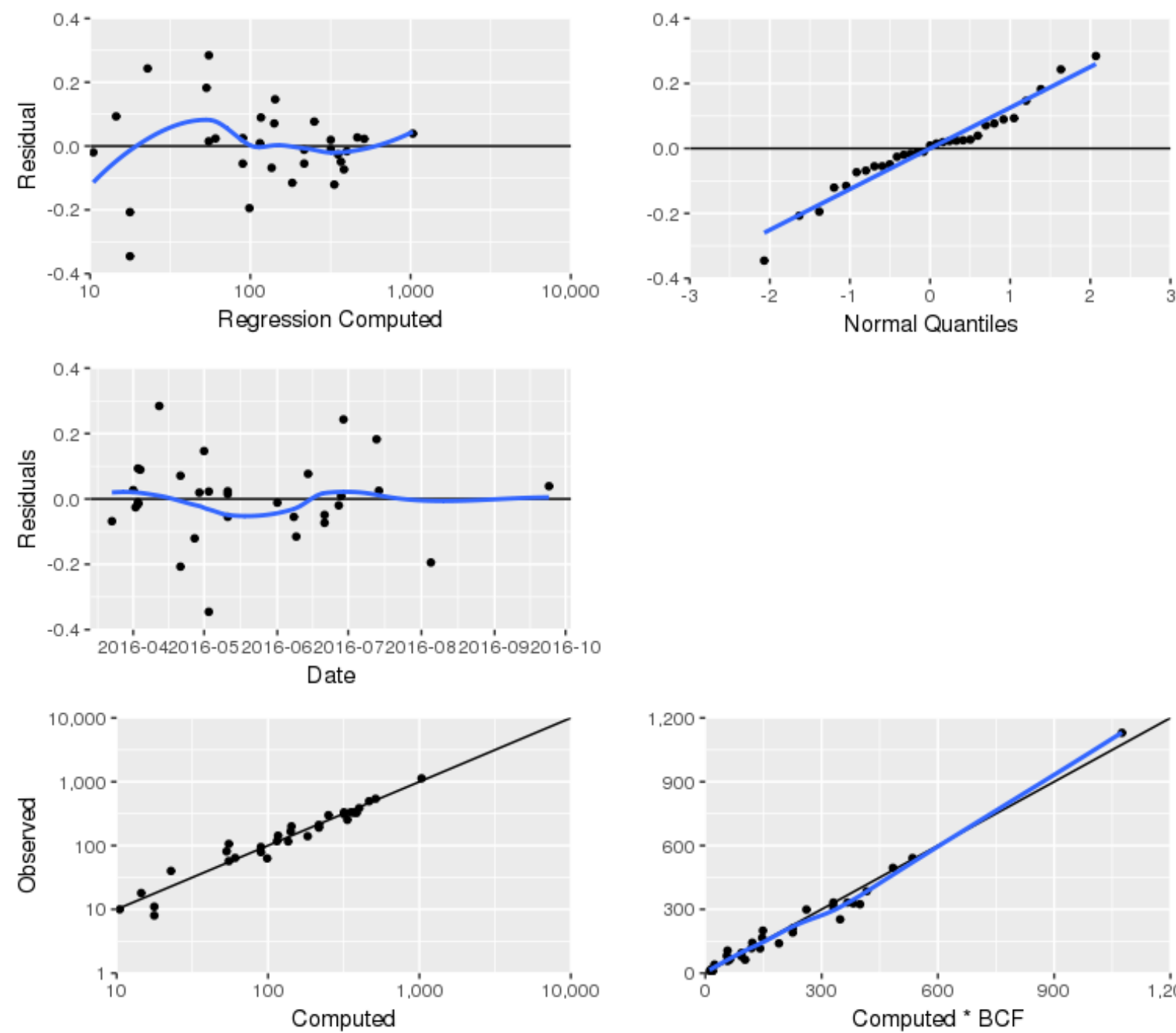
Outlier Test Criteria

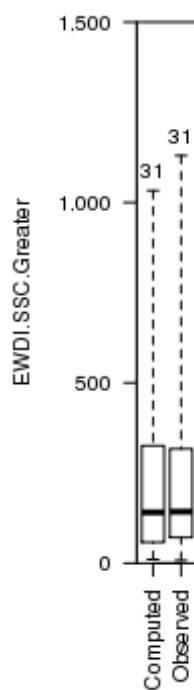
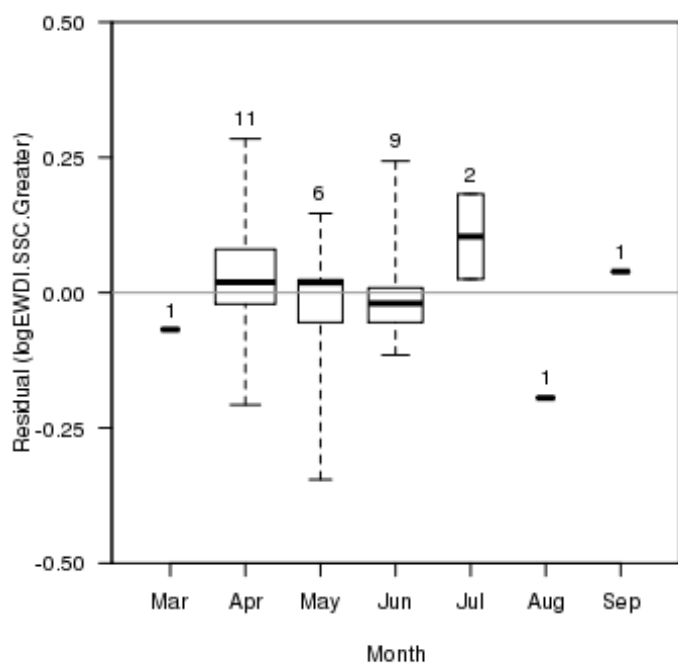
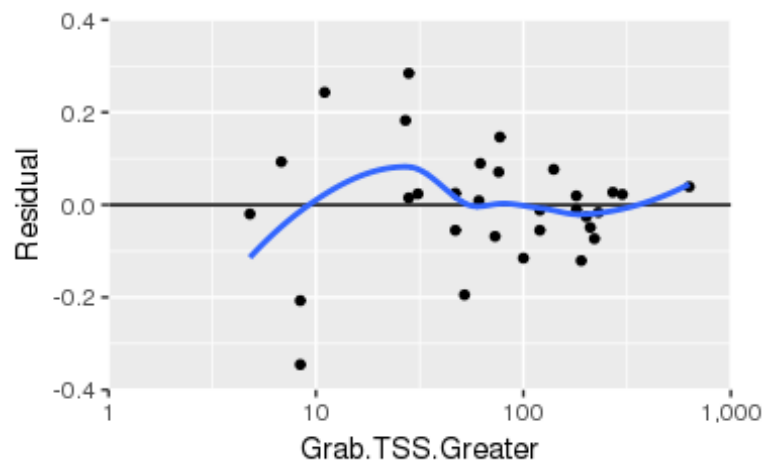
Leverage	Cook's D	DFFITS
0.0968	0.1057	0.3592

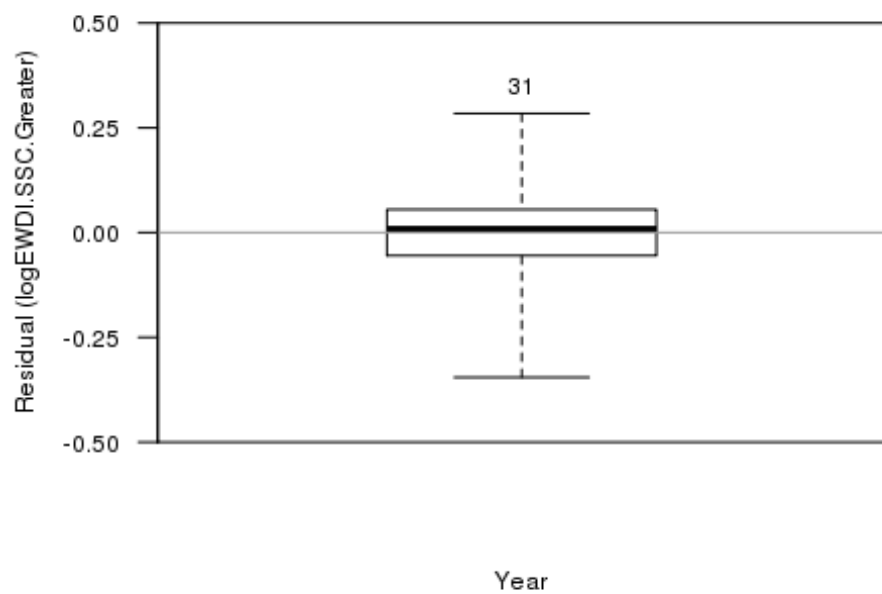
Flagged Observations

	logEWDI.SSC.Greater	Estimate	Residual	Standard Residual	Studentized Residual	Leverage	Cook's D	DFFITS	
4/12/2016 12:05	2.030	1.74	0.2840		2.280	2.470	0.0487	0.13300	0.5590
9/23/2016 19:40	3.050	3.01	0.0391		0.329	0.324	0.1400	0.00885	0.1310
4/21/2016 10:05	1.040	1.25	-0.2070		-1.730	-1.800	0.1250	0.21400	-0.6790
6/27/2016 14:05	1.000	1.02	-0.0198		-0.171	-0.168	0.1820	0.00324	-0.0791
4/3/2016 15:35	1.260	1.16	0.0931		0.787	0.781	0.1450	0.05250	0.3220
5/3/2016 17:30	0.903	1.25	-0.3450		-2.890	-3.360	0.1250	0.59600	-1.2700
6/29/2016 9:40	1.600	1.36	0.2430		2.010	2.120	0.1030	0.23000	0.7180

Statistical Plots

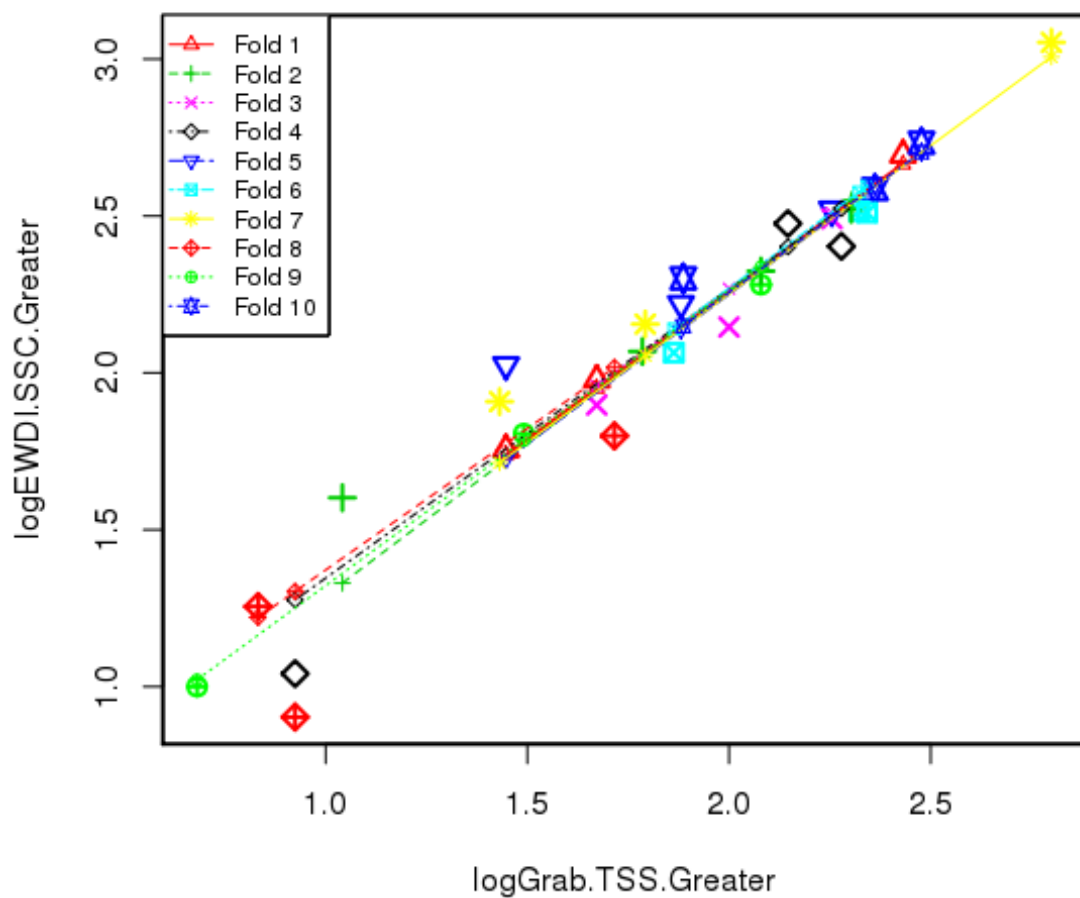




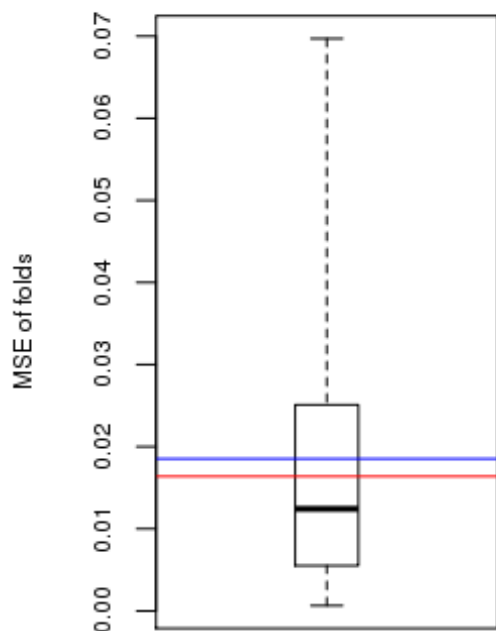


Cross Validation

Cross-validation



Minimum MSE of folds: 0.000646
 Mean MSE of folds: 0.018500
 Median MSE of folds: 0.012400
 Maximum MSE of folds: 0.069700
 (Mean MSE of folds) / (Model MSE): 1.130000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.SSC.Greater	logGrab.TSS.Greater	EWDI.SSC.Greater	Grab.TSS.Greater	Computed logEWDI.SSC.Greater	Computed EWDI.SSC.Greater	Computed Residual	Quantiles	Normal Values	Censored
1	2016-04-12	2.03	1.45	106	28	1.74	57.3	0.284	2.07	--	--
2	2016-05-11	1.81	1.49	64	31	1.78	63.1	0.0237	0.327	--	--
3	2016-06-14	2.48	2.15	299	140	2.4	261	0.0767	0.801	--	--
4	2016-07-14	1.98	1.67	95	47	1.95	93.3	0.0251	0.413	--	--
5	2016-07-13	1.91	1.43	81	27	1.73	55.4	0.182	1.38	--	--
6	2016-05-01	2.3	1.89	200	77	2.15	149	0.147	1.2	--	--
7	2016-06-28	2.07	1.79	117	61	2.06	119	0.00891	0	--	--
8	2016-03-23	2.06	1.86	116	73	2.13	141	-0.0682	-0.801	--	--
9	2016-04-04	2.16	1.79	143	62	2.07	121	0.0894	0.917	--	--
10	2016-09-24	3.05	2.8	1130	630	3.01	1070	0.0391	0.596	--	--
11	2016-04-21	2.22	1.88	166	76	2.15	147	0.0709	0.695	--	--
12	2016-04-01	2.69	2.43	495	270	2.67	484	0.0271	0.502	--	--
13	2016-06-08	1.9	1.67	79	47	1.95	93.3	-0.055	-0.695	--	--
14	2016-06-09	2.15	2	140	100	2.26	190	-0.115	-1.05	--	--
15	2016-04-21	1.04	0.924	11	8.4	1.25	18.4	-0.207	-1.63	--	--
16	2016-04-29	2.52	2.26	332	180	2.5	330	0.0194	0.161	--	--
17	2016-06-27	1	0.681	10	4.8	1.02	10.9	-0.0198	-0.327	--	--
18	2016-04-03	2.59	2.36	385	230	2.6	416	-0.0165	-0.243	--	--

19	2016-05-11	2.28	2.08	191	120	2.34	226	-0.0549	-0.596	--
20	2016-06-21	2.52	2.32	328	210	2.56	382	-0.0489	-0.502	--
21	2016-05-11	1.76	1.45	57	28	1.74	57.3	0.015	0.0804	--
22	2016-04-03	1.26	0.833	18	6.8	1.16	15.1	0.0931	1.05	--
23	2016-05-03	2.73	2.48	541	300	2.71	535	0.0226	0.243	--
24	2016-04-02	2.52	2.3	332	201	2.55	367	-0.0257	-0.413	--
25	2016-04-27	2.4	2.28	253	190	2.52	348	-0.121	-1.2	--
26	2016-05-03	0.903	0.924	8	8.4	1.25	18.4	-0.345	-2.07	--
27	2016-08-05	1.8	1.72	63	52	1.99	103	-0.195	-1.38	--
28	2016-06-01	2.32	2.08	211	120	2.34	226	-0.0117	-0.161	--
29	2016-06-21	2.51	2.34	324	220	2.58	399	-0.0732	-0.917	--
30	2016-06-29	1.6	1.04	40	11	1.36	23.8	0.243	1.63	--
31	2016-04-03	2.49	2.26	310	180	2.5	330	-0.0104	-0.0804	--

Definitions

EWDI.SSC.Greater: Suspended sediment concentration (SSC) in mg/l (80154)
Grab.TSS.Greater: Total suspended solids in mg/l (00530)

App Version 1.0