

Model Statistics, Data, and Plots

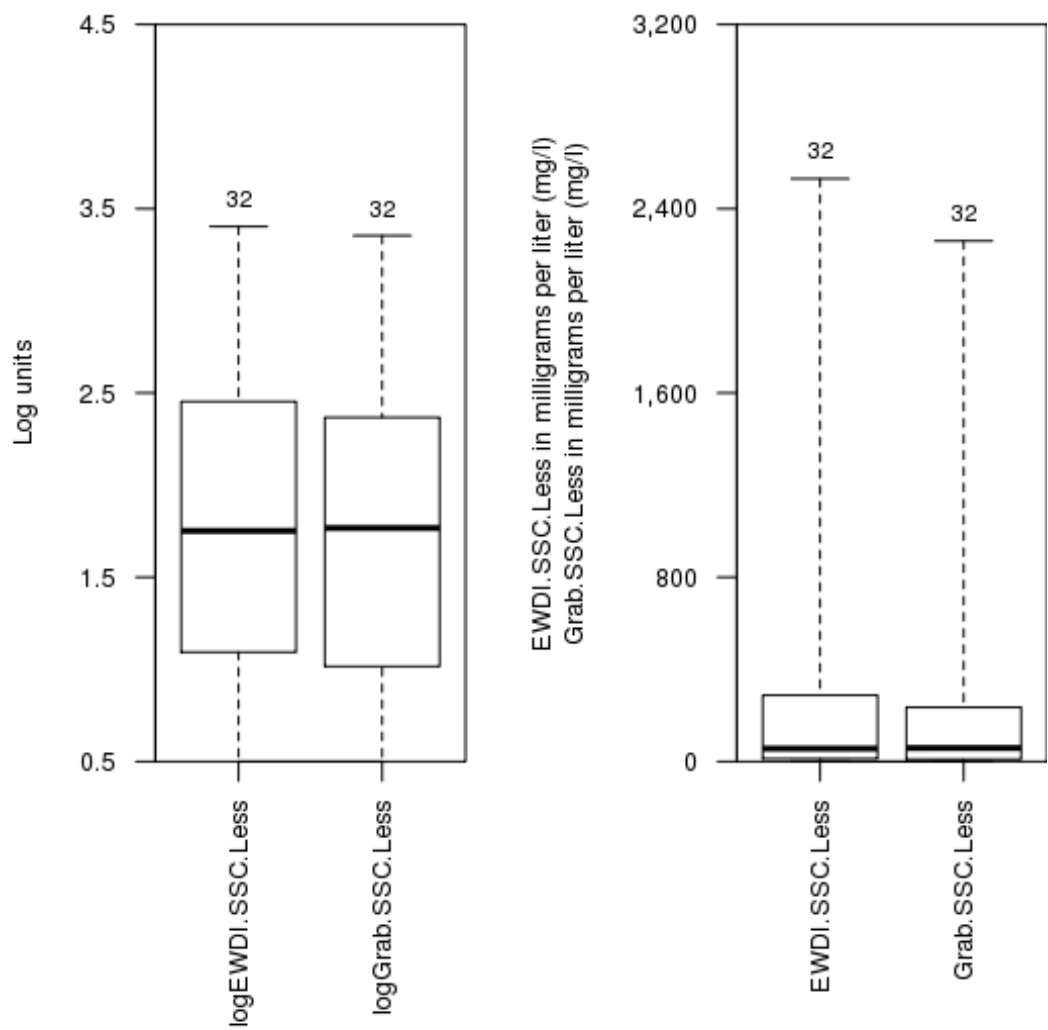
Model

$$\text{logEWDI.SSC.Less} = + 0.951 * \text{logGrab.SSC.Less} + 0.167$$

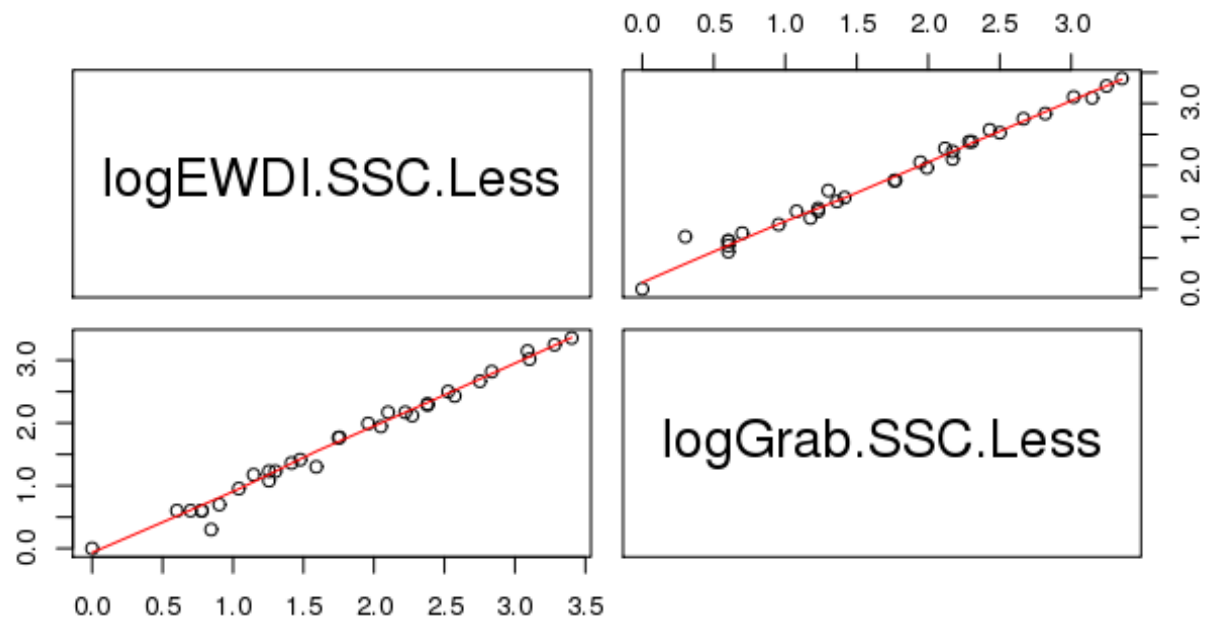
Variable Summary Statistics

	logEWDI.SSC.Less	EWDI.SSC.Less	logGrab.SSC.Less	Grab.SSC.Less
Minimum	0.00	1.0	0.00	1.0
1st Quartile	1.09	12.5	1.02	10.5
Median	1.75	56.5	1.77	58.5
Mean	1.80	325.0	1.71	296.0
3rd Quartile	2.45	288.0	2.37	235.0
Maximum	3.40	2530.0	3.35	2260.0

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	32
Standard error (RMSE)	0.11
Average Model standard percentage error (MSPE)	25.6
Coefficient of determination (R^2)	0.985
Adjusted Coefficient of Determination (Adj. R^2)	0.985
Bias Correction Factor (BCF)	1.03

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.167	0.0414	4.02	3.62e-04
logGrab.SSC.Less	0.951	0.0214	44.60	5.70e-29

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.883
E.vars	-0.883	1.000

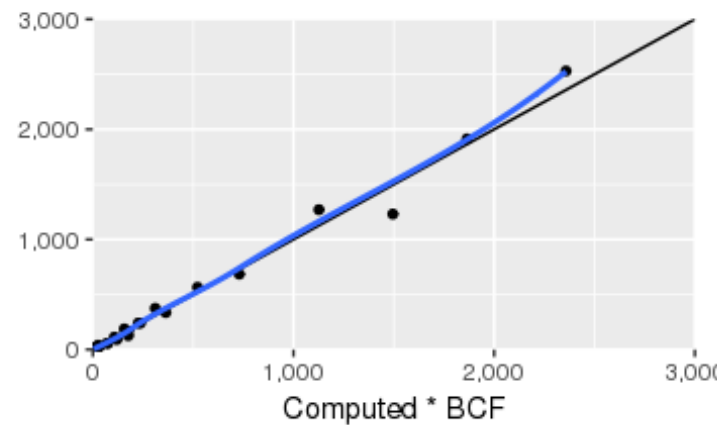
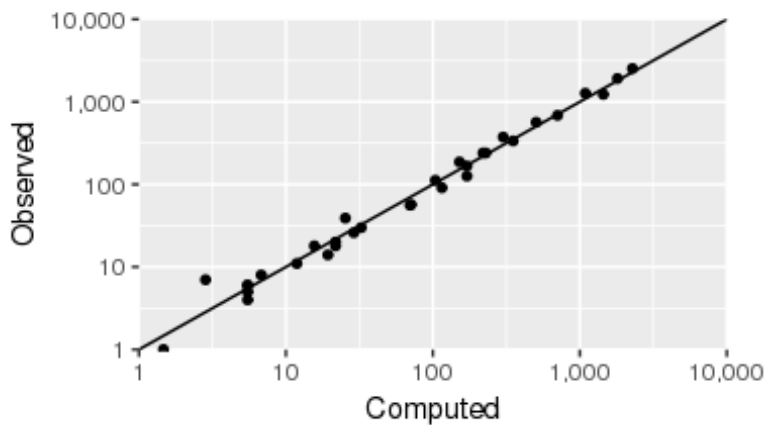
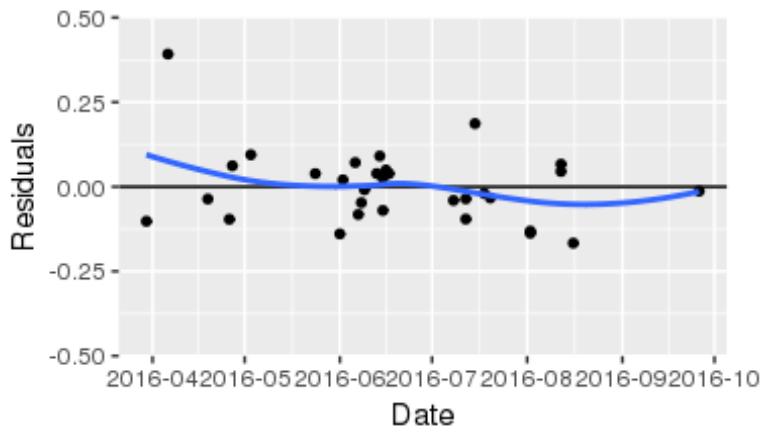
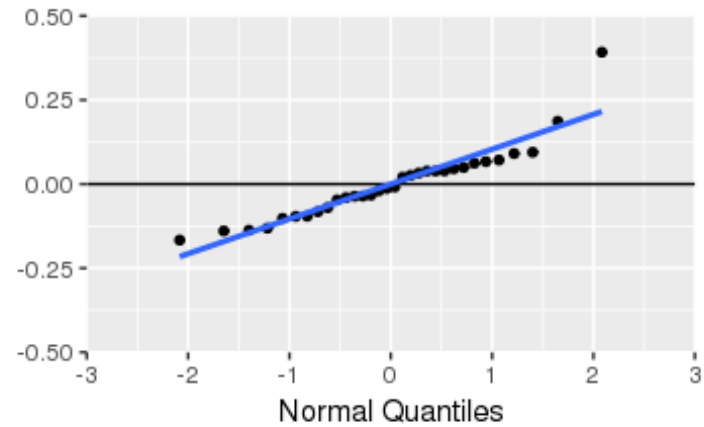
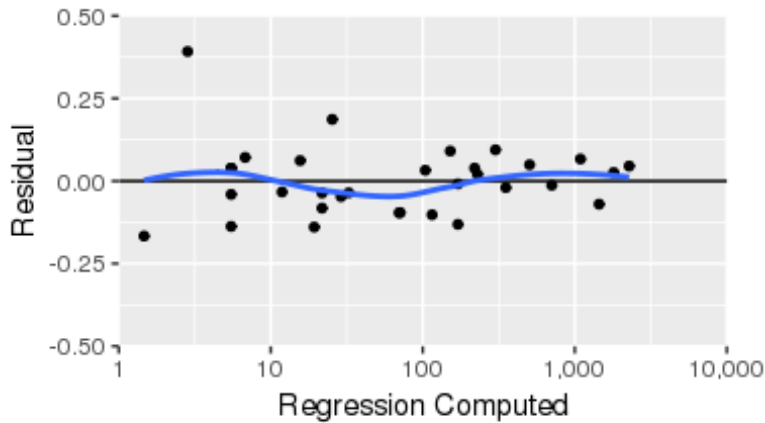
Outlier Test Criteria

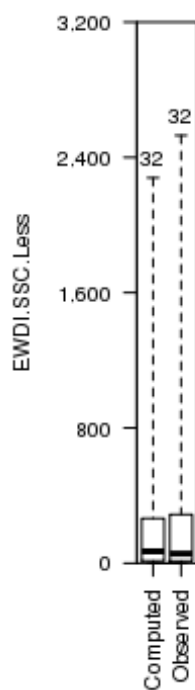
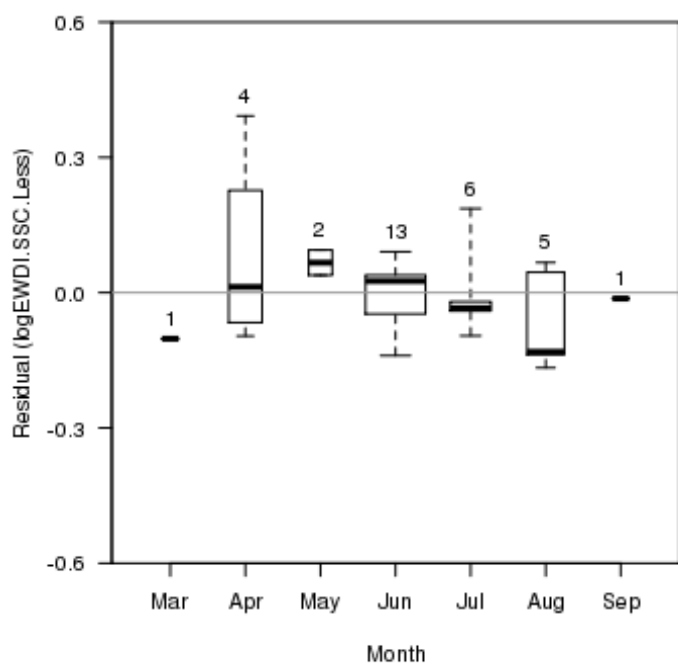
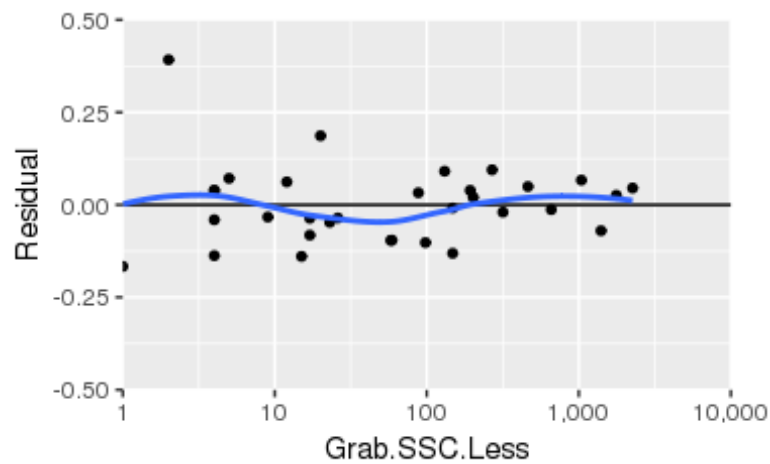
Leverage	Cook's D	DFFITS
0.0938	0.1057	0.3536

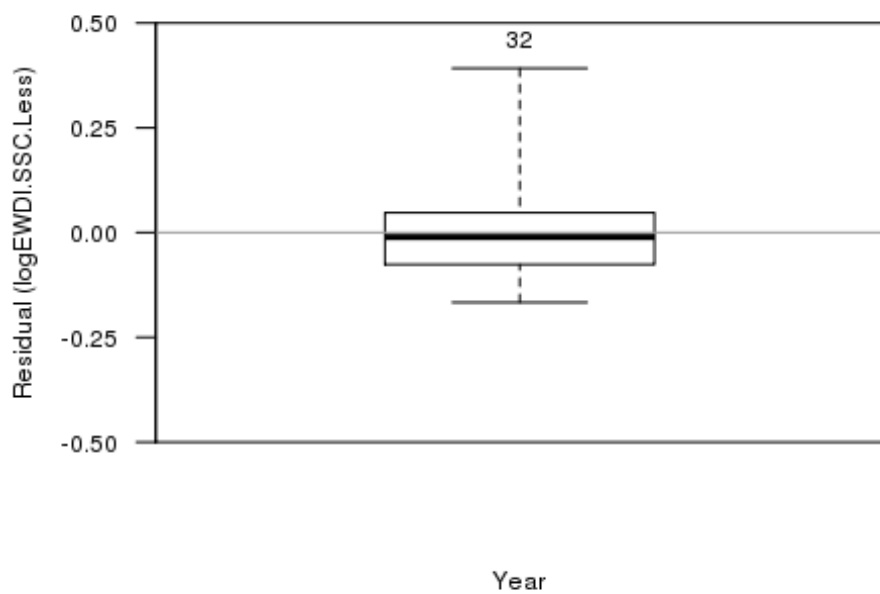
Flagged Observations

	logEWDI.SSC.Less	Estimate	Residual	Standard Residual	Studentized Residual	Leverage	Cook's D	DFFITS
6/15/2016 17:35	3.090	3.160	-0.0700	-0.675	-0.669	0.1090	0.02780	-0.2340
7/15/2016 10:45	1.590	1.400	0.1870	1.730	1.790	0.0377	0.05870	0.3550
4/6/2016 15:35	0.845	0.453	0.3920	3.780	5.130	0.1070	0.85200	1.7700
8/12/2016 10:40	3.100	3.040	0.0667	0.638	0.632	0.0954	0.02150	0.2050
6/15/2016 9:05	3.280	3.260	0.0258	0.251	0.247	0.1200	0.00428	0.0911
8/11/2016 19:50	3.400	3.360	0.0453	0.443	0.437	0.1330	0.01500	0.1710
8/2/2016 10:35	0.602	0.739	-0.1370	-1.300	-1.320	0.0780	0.07160	-0.3830
8/16/2016 9:40	0.000	0.167	-0.1670	-1.640	-1.690	0.1420	0.22200	-0.6870

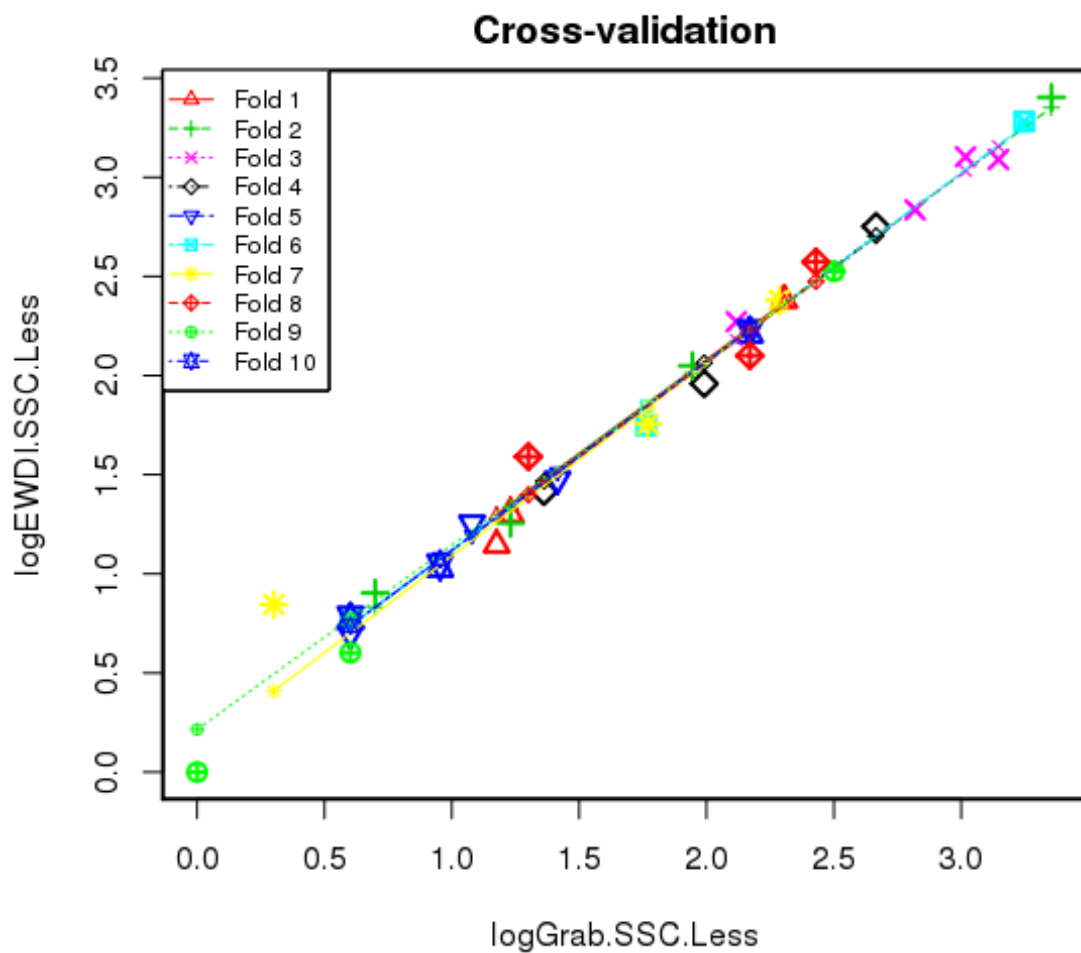
Statistical Plots



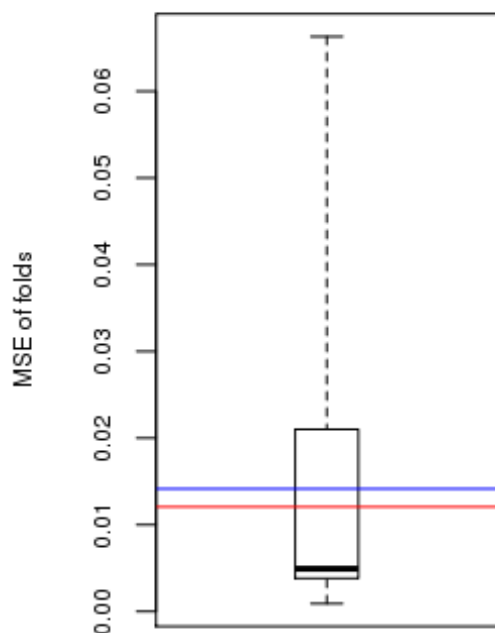




Cross Validation



Minimum MSE of folds: 0.000905
 Mean MSE of folds: 0.014100
 Median MSE of folds: 0.004930
 Maximum MSE of folds: 0.066300
 (Mean MSE of folds) / (Model MSE): 1.170000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.SSC.Less	logGrab.SSC.Less	EWDI.SSC.Less	Grab.SSC.Less	Computed logEWDI.SSC.Less	Computed EWDI.SSC.Less	Residual	Normal Quantiles	Censored Values
1	2016-04-27	1.26	1.08	18	12	1.19	16.1	0.0619	0.824	--
2	2016-07-18	2.53	2.5	336	317	2.55	364	-0.0198	-0.117	--
3	2016-06-15	3.09	3.15	1230	1400	3.16	1500	-0.07	-0.622	--
4	2016-06-02	2.38	2.31	240	202	2.36	237	0.0202	0.117	--
5	2016-05-03	2.57	2.43	374	269	2.48	311	0.0945	1.4	--
6	2016-06-16	2.75	2.67	565	463	2.7	522	0.0493	0.719	--
7	2016-06-14	2.27	2.12	187	131	2.18	157	0.0908	1.22	--
8	2016-06-13	2.38	2.29	240	193	2.34	227	0.0391	0.53	--
9	2016-07-15	1.59	1.3	39	20	1.4	26.3	0.187	1.65	--
10	2016-04-06	0.845	0.301	7	2	0.453	2.94	0.392	2.08	--
11	2016-06-17	0.778	0.602	6	4	0.739	5.68	0.0388	0.358	--
12	2016-06-09	2.22	2.17	167	148	2.23	176	-0.00872	0.0389	--
13	2016-08-02	2.1	2.17	126	148	2.23	176	-0.131	-1.22	--
14	2016-08-12	3.1	3.02	1270	1040	3.04	1130	0.0667	0.939	--
15	2016-06-01	1.15	1.18	14	15	1.29	20	-0.139	-1.65	--

16	2016-06-15	3.28	3.25	1910	1770	3.26	1860	0.0258	0.196	--
17	2016-08-12	3.4	3.35	2530	2260	3.36	2360	0.0453	0.622	--
18	2016-03-30	1.96	1.99	91	98	2.06	119	-0.102	-1.07	--
19	2016-06-08	1.41	1.36	26	23	1.46	30	-0.0472	-0.53	--
20	2016-04-26	1.75	1.76	56	58	1.84	72.3	-0.0962	-0.939	--
21	2016-06-15	2.05	1.94	112	88	2.02	107	0.0326	0.276	--
22	2016-04-19	1.3	1.23	20	17	1.34	22.5	-0.0362	-0.358	--
23	2016-05-24	0.778	0.602	6	4	0.739	5.68	0.0388	0.442	--
24	2016-06-06	0.903	0.699	8	5	0.832	7.02	0.0715	1.07	--
25	2016-07-12	1.48	1.41	30	26	1.51	33.7	-0.0357	-0.276	--
26	2016-07-08	0.699	0.602	5	4	0.739	5.68	-0.0404	-0.442	--
27	2016-07-12	1.76	1.77	57	59	1.85	73.5	-0.0955	-0.824	--
28	2016-07-20	1.04	0.954	11	9	1.07	12.3	-0.0331	-0.196	--
29	2016-08-02	0.602	0.602	4	4	0.739	5.68	-0.137	-1.4	--
30	2016-06-07	1.26	1.23	18	17	1.34	22.5	-0.082	-0.719	--
31	2016-08-16	0	0	1	1	0.167	1.52	-0.167	-2.08	--
32	2016-09-26	2.84	2.82	685	659	2.85	730	-0.0129	-0.0389	--

Definitions

EWDI.SSC.Less: Suspended sediment concentration (SSC) in mg/l (80154)

Grab.SSC.Less: Suspended sediment concentration (SSC) in mg/l (80154)

App Version 1.0