

Model Statistics, Data, and Plots

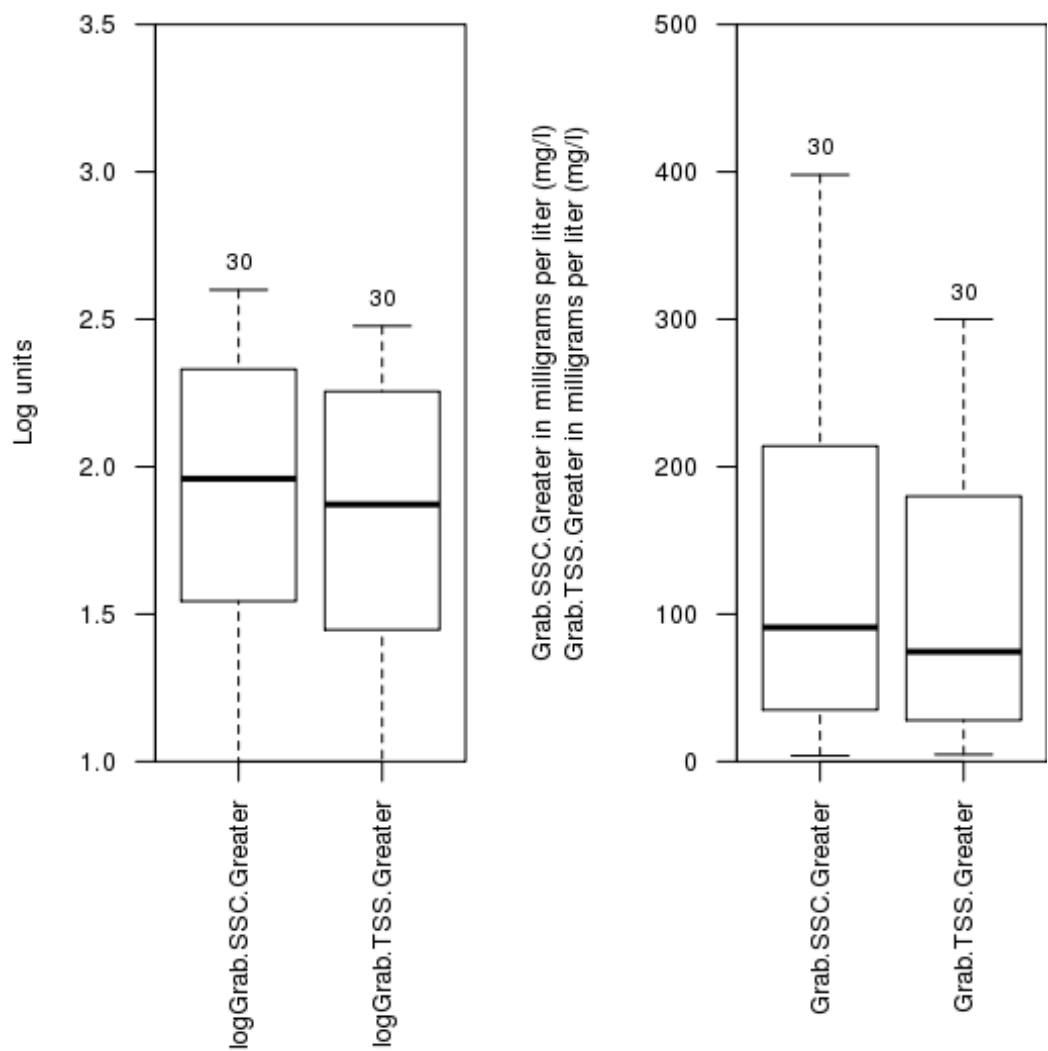
Model

$\text{logGrab.SSC.Greater} = + 1.11 * \text{logGrab.TSS.Greater} - 0.14$

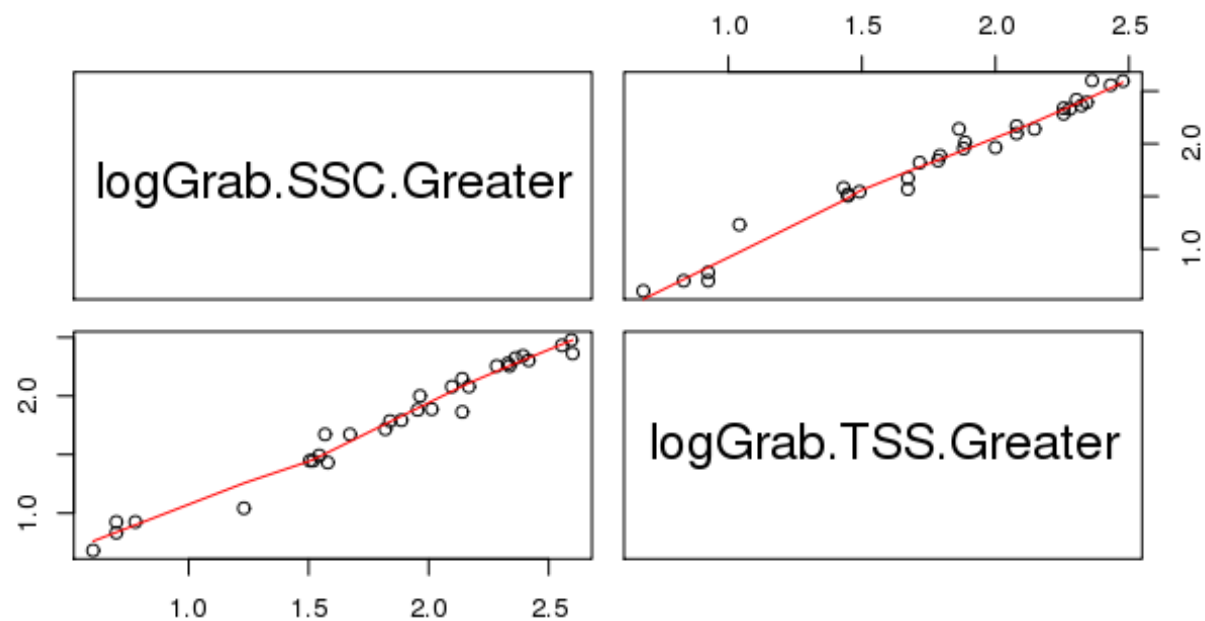
Variable Summary Statistics

	logGrab.SSC.Greater	Grab.SSC.Greater	logGrab.TSS.Greater	Grab.TSS.Greater
Minimum	0.602	4	0.681	4.8
1st Quartile	1.540	35	1.450	28.0
Median	1.960	91	1.870	74.5
Mean	1.840	127	1.790	104.0
3rd Quartile	2.330	214	2.260	180.0
Maximum	2.600	398	2.480	300.0

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	30
Standard error (RMSE)	0.0965
Average Model standard percentage error (MSPE)	22.4
Coefficient of determination (R ²)	0.973
Adjusted Coefficient of Determination (Adj. R ²)	0.972
Bias Correction Factor (BCF)	1.02

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	-0.14	0.0645	-2.17	3.84e-02
logGrab.TSS.Greater	1.11	0.0346	32.00	1.38e-23

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.962
E.vars	-0.962	1.000

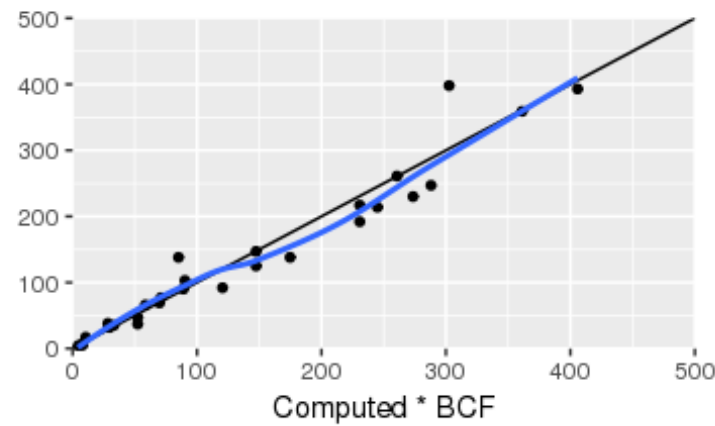
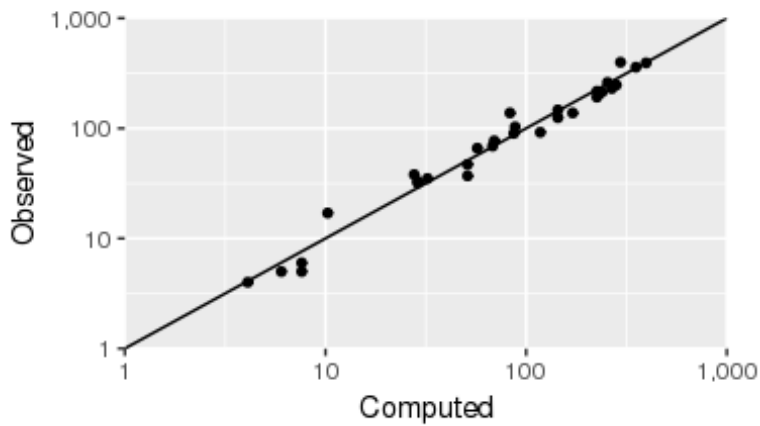
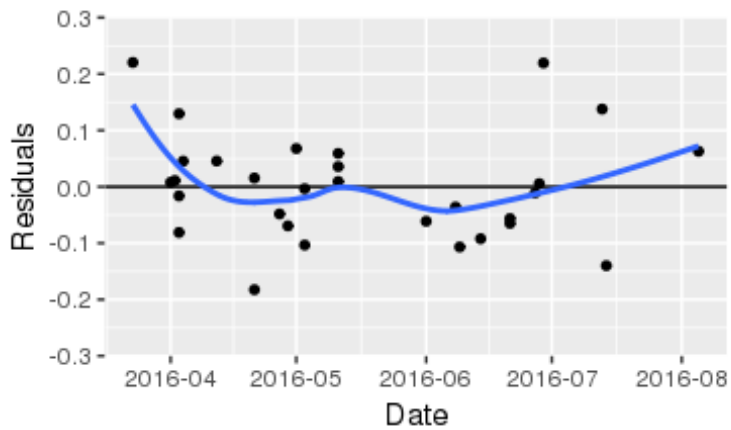
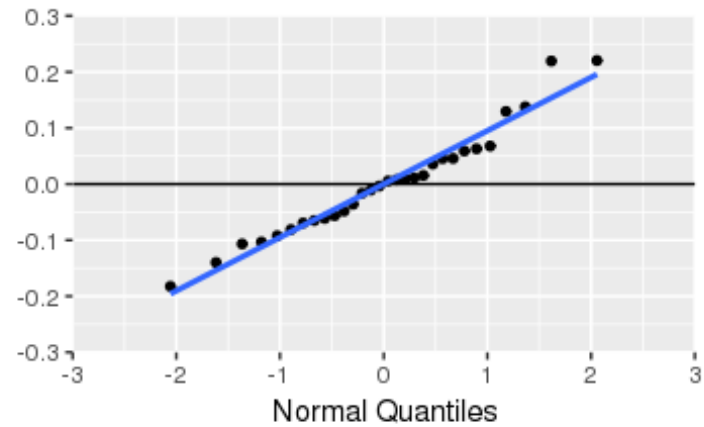
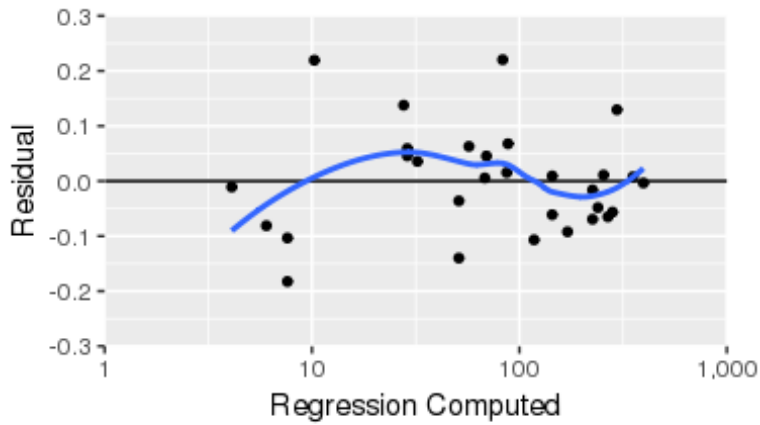
Outlier Test Criteria

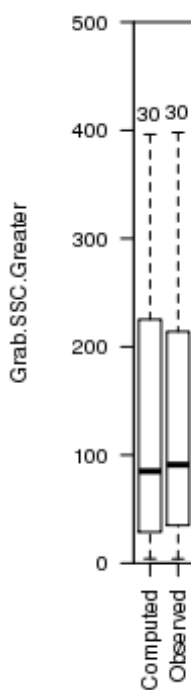
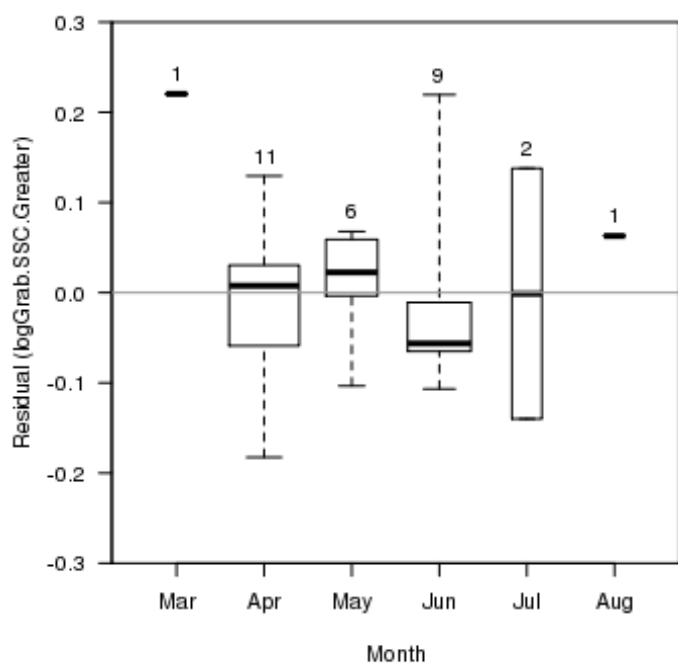
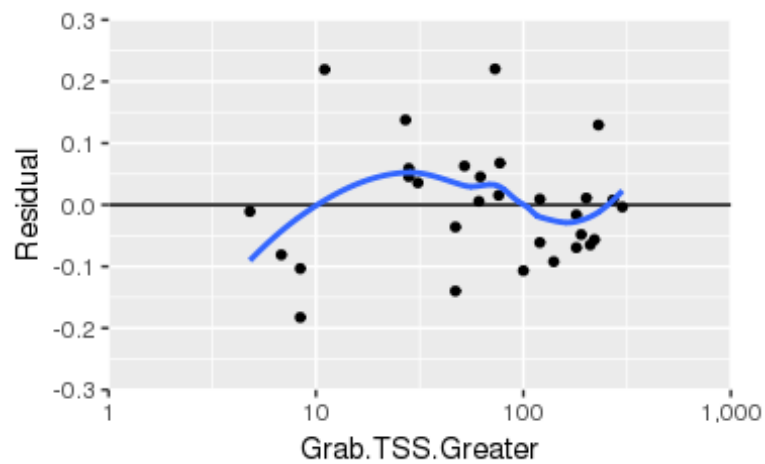
Leverage	Cook's D	DFFITS
0.100	0.106	0.365

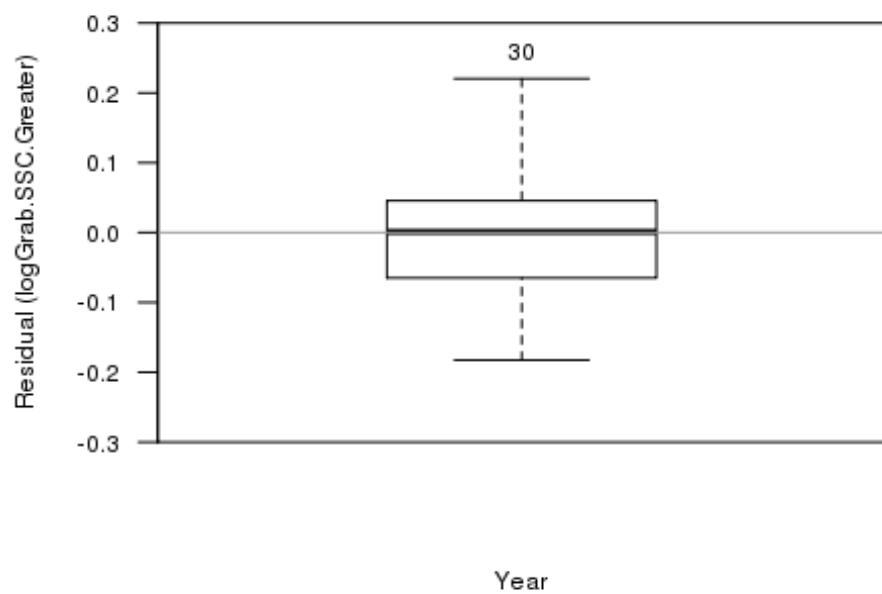
Flagged Observations

	logGrab.SSC.Greater	Estimate	Residual	Standard Residual	Studentized Residual	Leverage	Cook's D	DFFITS
3/23/2016 16:15	2.140	1.920	0.2200	2.320	2.540	0.0339	0.09500	0.4760
4/21/2016 10:05	0.699	0.882	-0.1830	-2.030	-2.160	0.1300	0.30900	-0.8360
6/27/2016 14:05	0.602	0.613	-0.0108	-0.125	-0.123	0.1920	0.00186	-0.0599
4/3/2016 9:40	2.600	2.470	0.1300	1.400	1.420	0.0747	0.07870	0.4040
4/3/2016 15:35	0.699	0.780	-0.0811	-0.913	-0.910	0.1520	0.07480	-0.3860
5/3/2016 17:30	0.778	0.882	-0.1030	-1.150	-1.160	0.1300	0.09910	-0.4480
6/29/2016 9:40	1.230	1.010	0.2190	2.410	2.650	0.1060	0.34400	0.9140

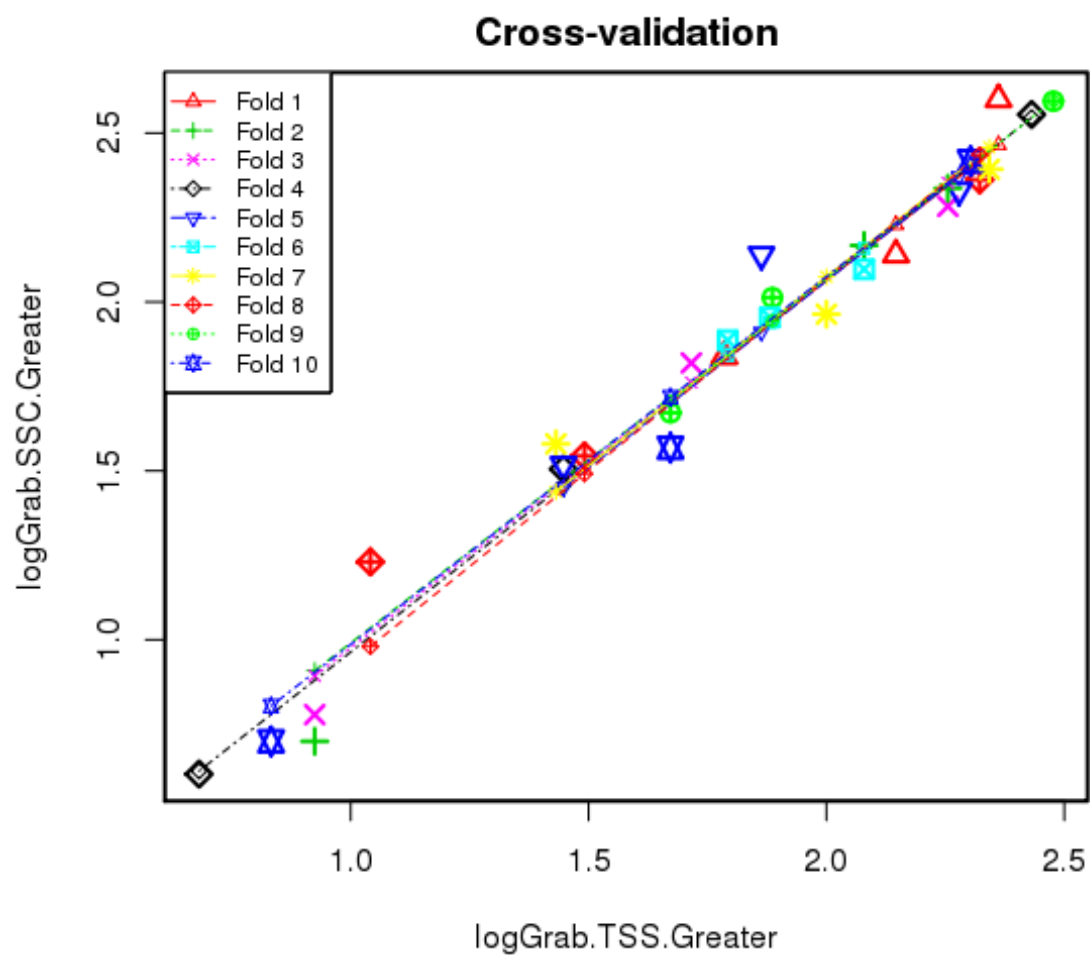
Statistical Plots



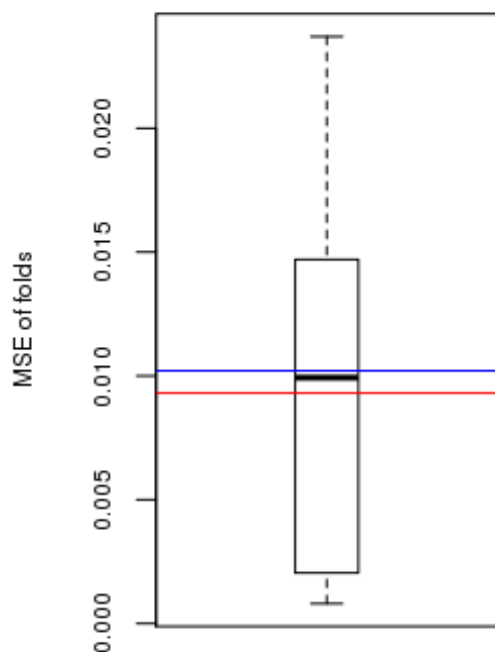




Cross Validation



Minimum MSE of folds: 0.000802
 Mean MSE of folds: 0.010200
 Median MSE of folds: 0.009930
 Maximum MSE of folds: 0.023700
 (Mean MSE of folds) / (Model MSE): 1.100000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logGrab.SSC.Greater	logGrab.TSS.Greater	Grab.SSC.Greater	Grab.TSS.Greater	Computed		Residual	Normal	Censored
						logGrab.SSC.Greater	Grab.SSC.Greater			
1	2016-04-12	1.51	1.45	32	28	1.46	29.5	0.0457	0.669	--
2	2016-05-11	1.54	1.49	35	31	1.51	33	0.0357	0.474	--
3	2016-06-14	2.14	2.15	138	140	2.23	175	-0.0922	-1.03	--
4	2016-07-14	1.57	1.67	37	47	1.71	52.3	-0.14	-1.62	--
5	2016-07-13	1.58	1.43	38	27	1.44	28.3	0.138	1.37	--
6	2016-05-01	2.01	1.89	103	77	1.95	90.3	0.0678	1.03	--
7	2016-06-28	1.84	1.79	69	61	1.83	69.8	0.00558	0.0415	--
8	2016-03-23	2.14	1.86	138	73	1.92	85.1	0.22	2.06	--
9	2016-04-04	1.89	1.79	77	62	1.84	71	0.0454	0.569	--
10	2016-04-21	1.95	1.88	90	76	1.94	89	0.0154	0.383	--
11	2016-04-01	2.56	2.43	359	270	2.55	361	0.00775	0.125	--
12	2016-06-08	1.67	1.67	47	47	1.71	52.3	-0.036	-0.295	--
13	2016-06-09	1.96	2	92	100	2.07	120	-0.107	-1.37	--
14	2016-04-21	0.699	0.924	5	8.4	0.882	7.8	-0.183	-2.06	--
15	2016-04-29	2.28	2.26	192	180	2.35	231	-0.0694	-0.777	--
16	2016-06-27	0.602	0.681	4	4.8	0.613	4.2	-0.0108	-0.125	--
17	2016-04-03	2.6	2.36	398	230	2.47	303	0.13	1.18	--
18	2016-05-11	2.17	2.08	147	120	2.16	147	0.00925	0.209	--

19	2016-06-21	2.36	2.32	230	210	2.43	274	-0.065	-0.669	--
20	2016-05-11	1.52	1.45	33	28	1.46	29.5	0.059	0.777	--
21	2016-04-03	0.699	0.833	5	6.8	0.78	6.17	-0.0811	-0.895	--
22	2016-05-03	2.59	2.48	393	300	2.6	406	-0.00353	-0.0415	--
23	2016-04-02	2.42	2.3	261	201	2.41	261	0.011	0.295	--
24	2016-04-27	2.33	2.28	214	190	2.38	245	-0.0482	-0.383	--
25	2016-05-03	0.778	0.924	6	8.4	0.882	7.8	-0.103	-1.18	--
26	2016-08-05	1.82	1.72	66	52	1.76	58.5	0.0629	0.895	--
27	2016-06-01	2.1	2.08	125	120	2.16	147	-0.0612	-0.569	--
28	2016-06-21	2.39	2.34	247	220	2.45	288	-0.0563	-0.474	--
29	2016-06-29	1.23	1.04	17	11	1.01	10.5	0.219	1.62	--
30	2016-04-03	2.34	2.26	217	180	2.35	231	-0.0162	-0.209	--

Definitions

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

Grab.TSS.Greater: Total suspended solids in mg/l (00530)

App Version 1.0