

Model Statistics, Data, and Plots

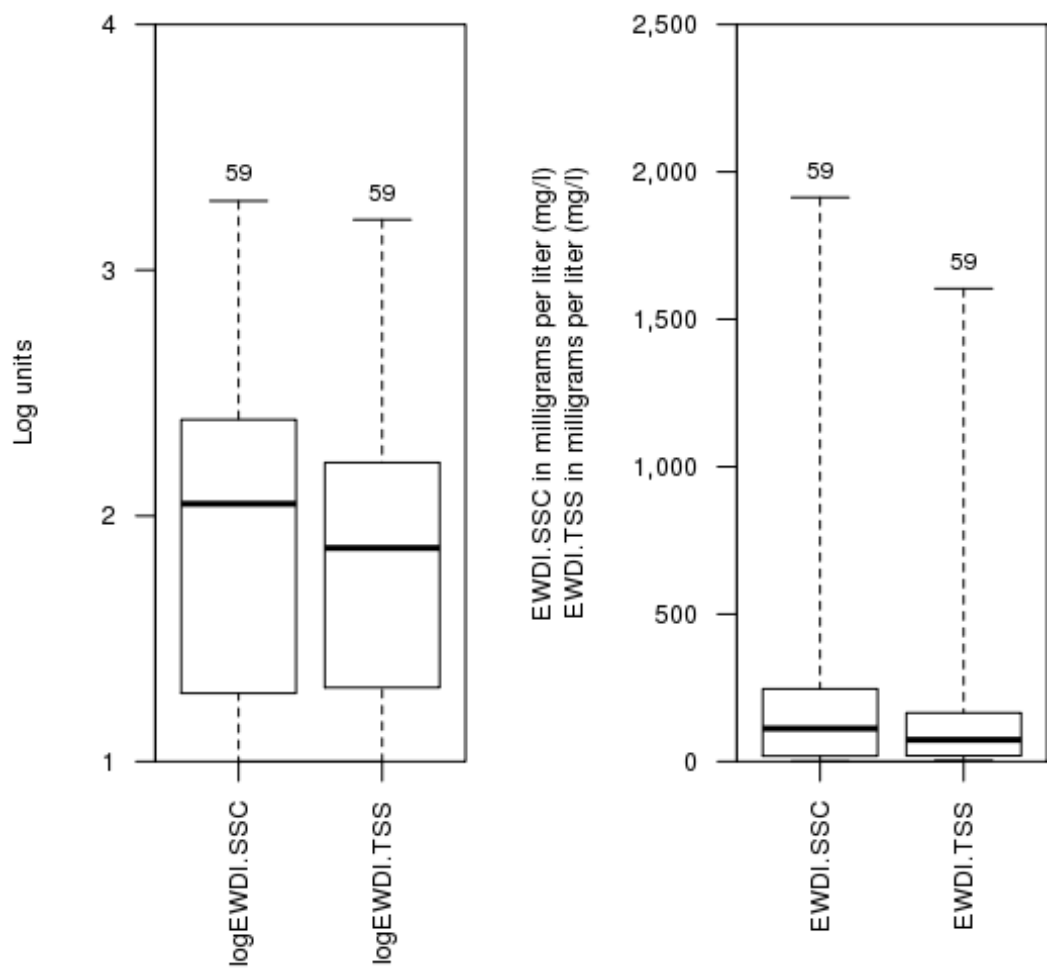
Model

$$\text{logEWDI.SSC} = + 1.13 * \text{logEWDI.TSS} - 0.146$$

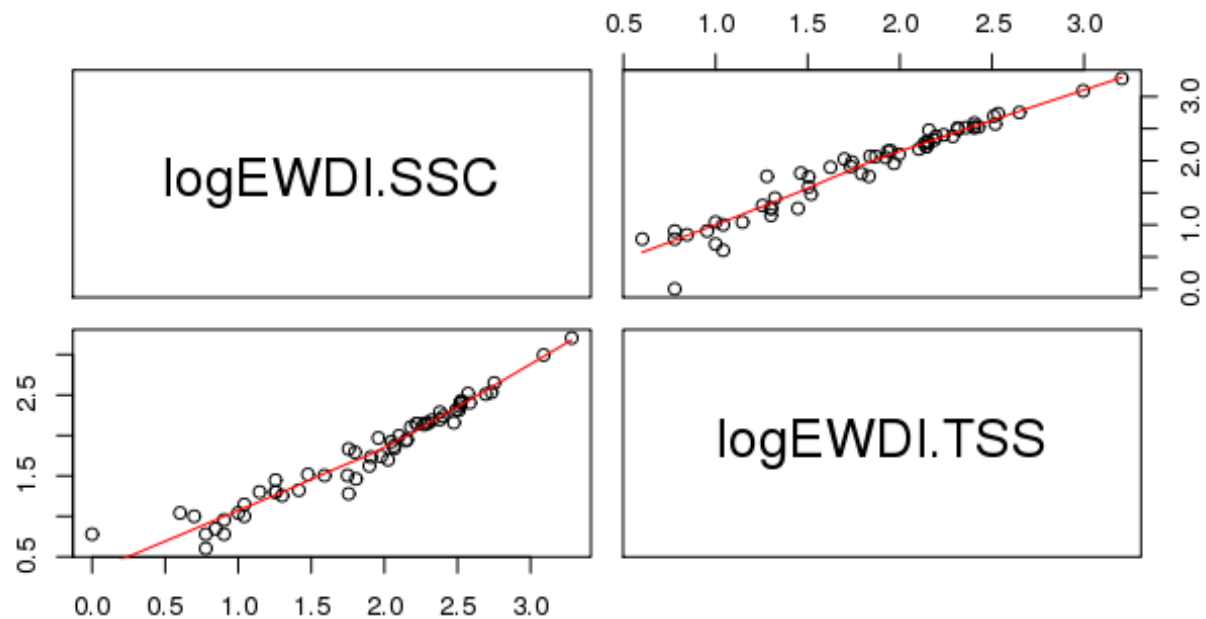
Variable Summary Statistics

	logEWDI.SSC	EWDI.SSC	logEWDI.TSS	EWDI.TSS
Minimum	0.00	1	0.602	4
1st Quartile	1.26	18	1.300	20
Median	2.05	112	1.870	74
Mean	1.88	195	1.800	147
3rd Quartile	2.40	253	2.240	173
Maximum	3.28	1910	3.210	1600

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	59
Standard error (RMSE)	0.175
Average Model standard percentage error (MSPE)	41.3
Coefficient of determination (R^2)	0.938
Adjusted Coefficient of Determination (Adj. R^2)	0.937
Bias Correction Factor (BCF)	1.07

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	-0.146	0.0724	-2.02	4.83e-02
logEWDI.TSS	1.130	0.0383	29.40	3.79e-36

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.949
E.vars	-0.949	1.000

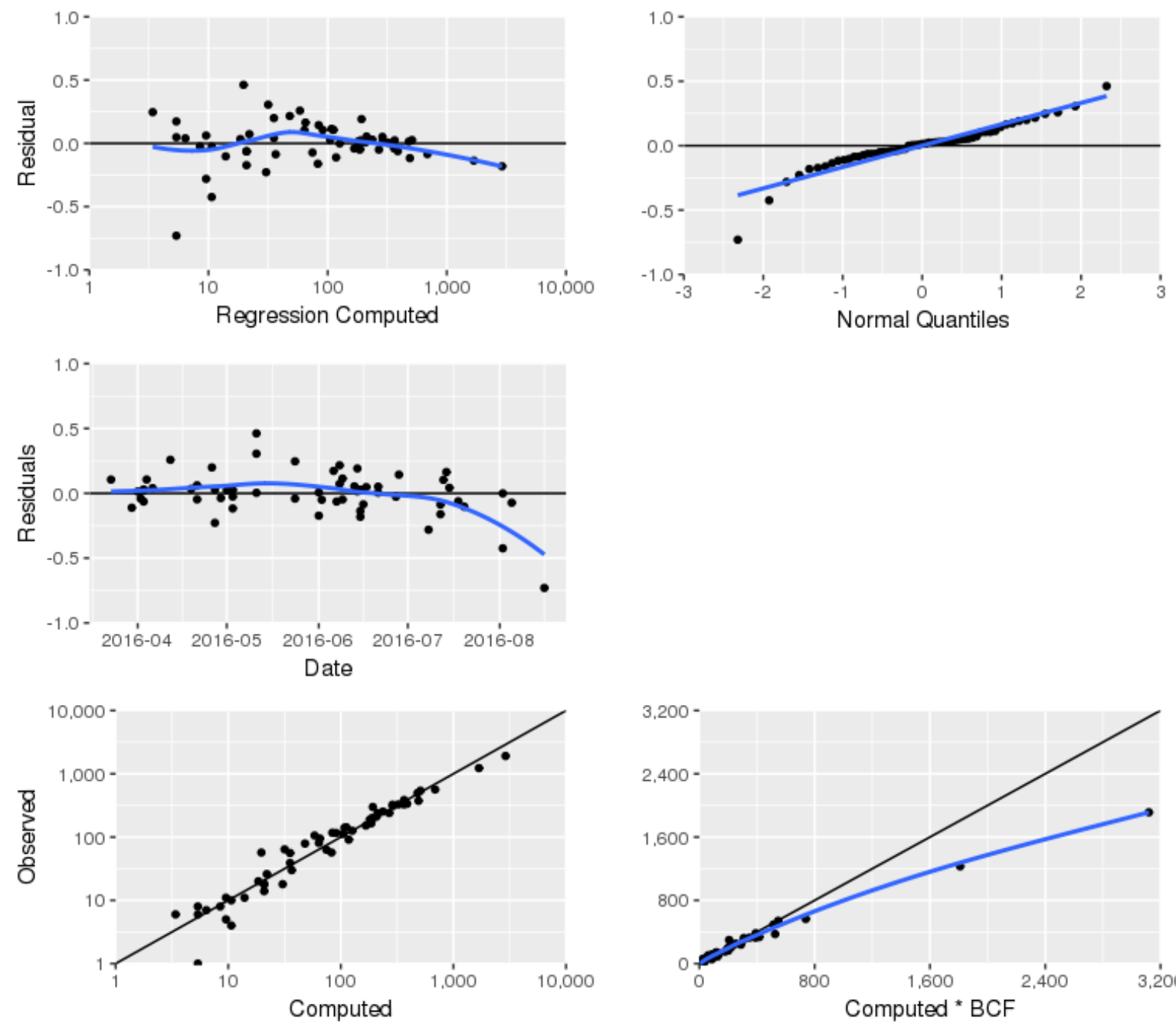
Outlier Test Criteria

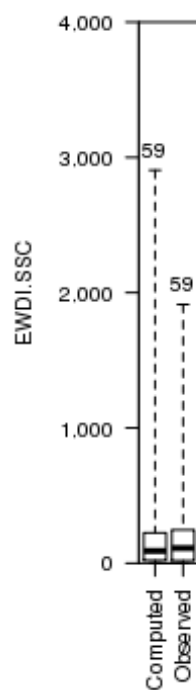
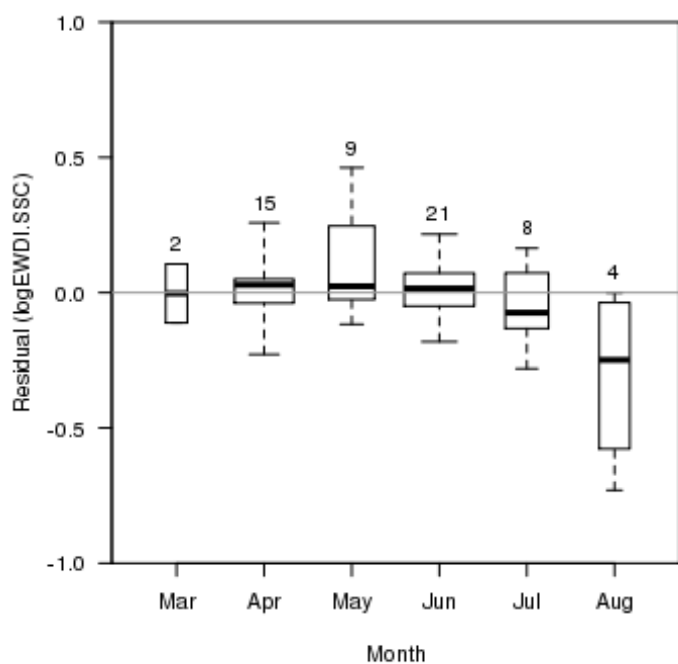
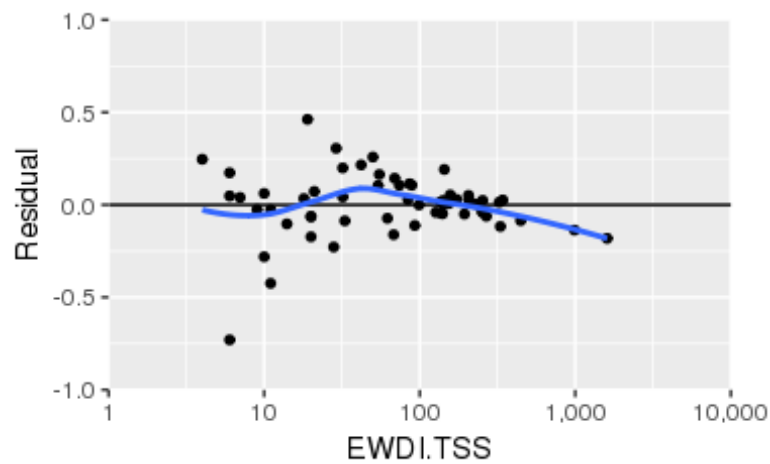
Leverage	Cook's D	DFFITS
0.0508	0.1056	0.2604

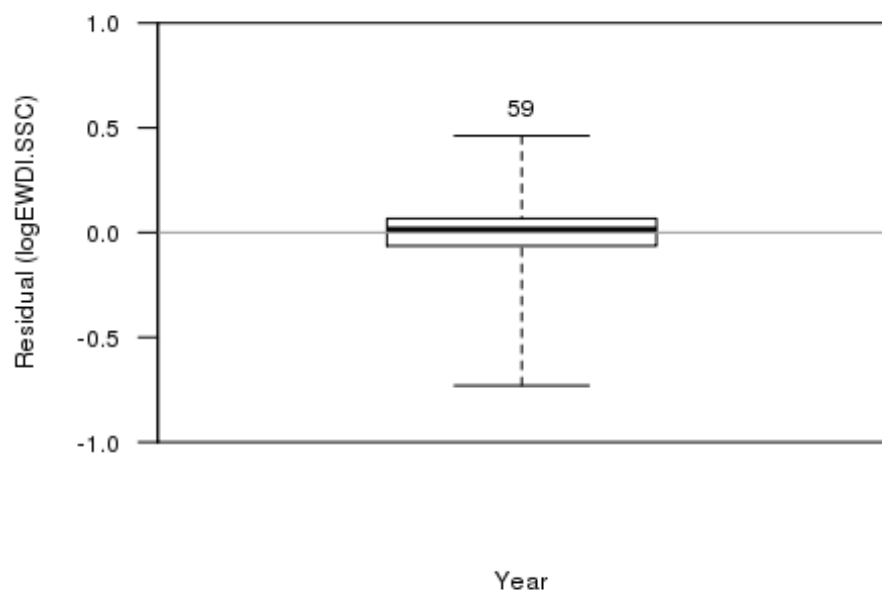
Flagged Observations

	logEWDI.SSC	Estimate	Residual	Standard Residual	Studentized Residual	Leverage	Cook's D	DFFITS
5/24/2016 12:15	0.778	0.532	0.2460	1.470	1.490	0.0854	0.102000	0.4550
8/16/2016 9:40	0.000	0.730	-0.7300	-4.320	-5.230	0.0667	0.669000	-1.4000
4/6/2016 15:35	0.845	0.805	0.0397	0.234	0.232	0.0604	0.001760	0.0589
5/3/2016 17:30	0.903	0.928	-0.0253	-0.148	-0.147	0.0510	0.000592	-0.0341
8/2/2016 10:35	0.602	1.030	-0.4240	-2.480	-2.610	0.0443	0.143000	-0.5620
6/6/2016 13:05	0.903	0.730	0.1730	1.020	1.030	0.0667	0.037600	0.2740
6/17/2016 11:40	0.778	0.730	0.0481	0.285	0.283	0.0667	0.002900	0.0756
7/8/2016 12:15	0.699	0.980	-0.2810	-1.650	-1.670	0.0474	0.067500	-0.3730
6/15/2016 17:35	3.090	3.230	-0.1370	-0.819	-0.816	0.0859	0.031500	-0.2500
6/16/2016 13:45	2.750	2.840	-0.0851	-0.500	-0.497	0.0518	0.006850	-0.1160
5/11/2016 16:45	1.810	1.500	0.3060	1.770	1.800	0.0223	0.035700	0.2720
5/11/2016 10:05	1.760	1.290	0.4620	2.680	2.850	0.0298	0.111000	0.4990
6/15/2016 9:05	3.280	3.460	-0.1810	-1.100	-1.100	0.1120	0.076700	-0.3920

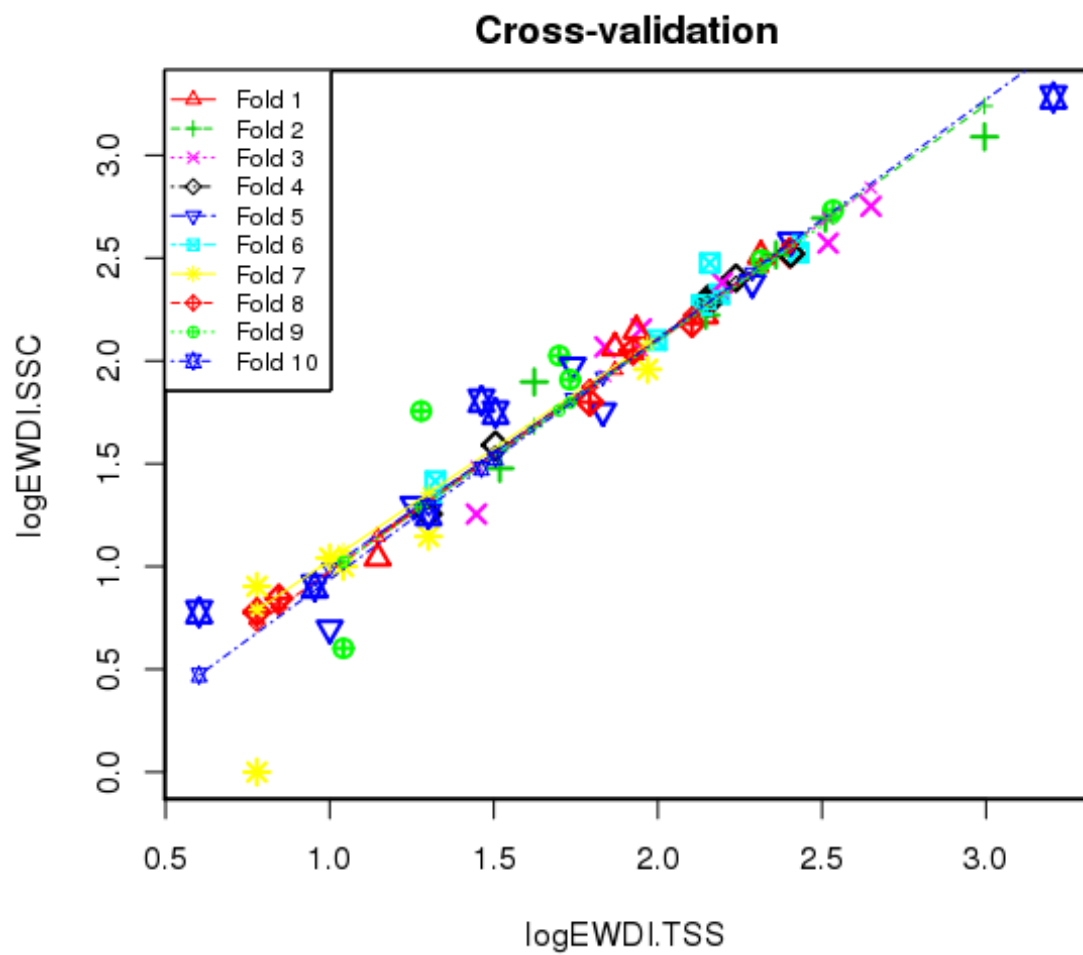
Statistical Plots



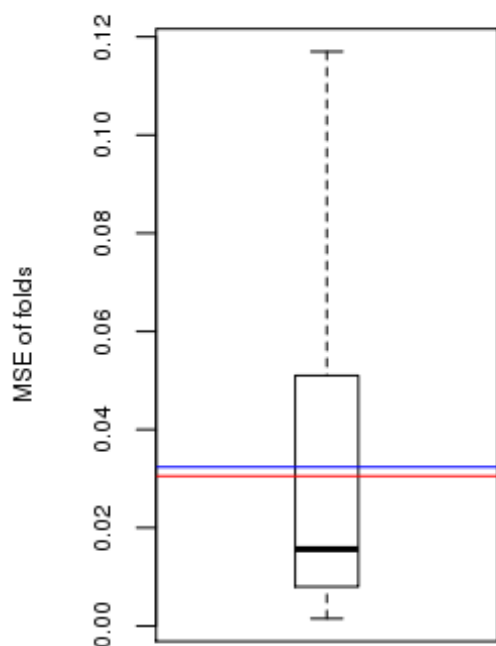




Cross Validation



Minimum MSE of folds: 0.00149
 Mean MSE of folds: 0.03240
 Median MSE of folds: 0.01560
 Maximum MSE of folds: 0.11700
 (Mean MSE of folds) / (Model MSE): 1.06000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

0	Date	logEWDI.SSC	logEWDI.TSS	EWDI.SSC	EWDI.TSS	Computed logEWDI.SSC	Computed EWDI.SSC	Residual	Normal Quantiles	Censored Values
1	2016-03-30	1.96	1.97	91	93	2.07	126	-0.111	-0.986	--
2	2016-04-19	1.3	1.26	20	18	1.27	19.9	0.0337	0.345	--
3	2016-04-26	1.75	1.51	56	32	1.55	38	0.199	1.31	--
4	2016-05-24	0.778	0.602	6	4	0.532	3.65	0.246	1.55	--
5	2016-06-07	1.26	1.3	18	20	1.32	22.4	-0.0636	-0.685	--
6	2016-06-15	2.05	1.92	112	84	2.02	113	0.0285	0.213	--
7	2016-07-12	1.76	1.83	57	68	1.92	88.8	-0.161	-1.22	--
8	2016-08-16	0	0.778	1	6	0.73	5.77	-0.73	-2.32	--
9	2016-04-06	0.845	0.845	7	7	0.805	6.86	0.0397	0.391	--
10	2016-04-27	1.26	1.45	18	28	1.48	32.7	-0.228	-1.55	--
11	2016-05-03	0.903	0.954	8	9	0.928	9.1	-0.0253	-0.213	--
12	2016-06-01	1.15	1.3	14	20	1.32	22.4	-0.173	-1.31	--
13	2016-06-08	1.41	1.32	26	21	1.34	23.6	0.0722	0.685	--
14	2016-07-20	1.04	1.15	11	14	1.14	15	-0.103	-0.919	--
15	2016-08-02	0.602	1.04	4	11	1.03	11.4	-0.424	-1.93	--

16	2016-08-05	1.8	1.79	63	62	1.87	80	-0.0729	-0.74	--
17	2016-04-03	1.26	1.3	18	20	1.32	22.4	-0.0636	-0.633	--
18	2016-04-21	1.04	1	11	10	0.98	10.3	0.0615	0.633	--
19	2016-06-06	0.903	0.778	8	6	0.73	5.77	0.173	1.13	--
20	2016-06-17	0.778	0.778	6	6	0.73	5.77	0.0481	0.484	--
21	2016-06-27	1	1.04	10	11	1.03	11.4	-0.0265	-0.257	--
22	2016-07-08	0.699	1	5	10	0.98	10.3	-0.281	-1.71	--
23	2016-07-12	1.48	1.52	30	33	1.56	39.3	-0.0867	-0.856	--
24	2016-07-15	1.59	1.51	39	32	1.55	38	0.0423	0.437	--
25	2016-04-04	2.16	1.95	143	89	2.05	120	0.106	0.856	--
26	2016-04-21	2.22	2.14	166	139	2.27	199	-0.0469	-0.437	--
27	2016-04-29	2.52	2.4	332	252	2.56	388	-0.0369	-0.301	--
28	2016-05-01	2.3	2.15	200	142	2.28	203	0.0236	0.0848	--
29	2016-06-01	2.32	2.19	211	154	2.32	223	0.00714	-0.0424	--
30	2016-07-18	2.53	2.43	336	268	2.59	416	-0.0618	-0.582	--
31	2016-04-01	2.69	2.51	495	324	2.68	515	0.0137	0	--
32	2016-04-03	2.59	2.4	385	254	2.56	392	0.0236	0.127	--
33	2016-04-27	2.4	2.24	253	173	2.37	254	0.0291	0.257	--
34	2016-05-03	2.73	2.53	541	342	2.71	547	0.0259	0.17	--
35	2016-05-11	2.28	2.15	191	142	2.28	203	0.00356	-0.127	--
36	2016-05-24	2.18	2.1	152	127	2.22	179	-0.041	-0.391	--
37	2016-06-15	3.09	3	1230	989	3.23	1810	-0.137	-1.13	--
38	2016-06-21	2.52	2.36	328	229	2.51	348	0.00468	-0.0848	--
39	2016-04-02	2.52	2.4	332	254	2.56	392	-0.0407	-0.345	--
40	2016-05-03	2.57	2.52	374	330	2.69	526	-0.117	-1.06	--
41	2016-06-02	2.38	2.29	240	194	2.43	289	-0.0499	-0.532	--
42	2016-06-09	2.22	2.15	167	140	2.27	200	-0.0478	-0.484	--
43	2016-06-14	2.27	2.13	187	136	2.26	194	0.0155	0.0424	--
44	2016-06-16	2.75	2.65	565	446	2.84	738	-0.0851	-0.797	--
45	2016-06-21	2.51	2.31	324	206	2.46	309	0.0511	0.532	--
46	2016-08-02	2.1	2	126	99	2.1	136	-0.000695	-0.17	--
47	2016-04-12	2.03	1.7	106	50	1.77	62.8	0.258	1.71	--
48	2016-05-11	1.81	1.46	64	29	1.5	34	0.306	1.93	--
49	2016-06-08	1.9	1.62	79	42	1.68	51.6	0.216	1.42	--
50	2016-06-13	2.38	2.2	240	157	2.33	228	0.0536	0.582	--
51	2016-06-28	2.07	1.84	117	69	1.92	90.2	0.144	0.986	--
52	2016-07-14	1.98	1.74	95	55	1.81	69.9	0.164	1.06	--
53	2016-03-23	2.06	1.87	116	74	1.96	97.6	0.106	0.797	--
54	2016-04-03	2.49	2.32	310	207	2.46	311	0.0296	0.301	--
55	2016-05-11	1.76	1.28	57	19	1.29	21.1	0.462	2.32	--
56	2016-06-09	2.15	1.93	140	86	2.03	116	0.114	0.919	--
57	2016-06-14	2.48	2.16	299	144	2.28	207	0.191	1.22	--
58	2016-06-15	3.28	3.21	1910	1600	3.46	3120	-0.181	-1.42	--
59	2016-07-13	1.91	1.73	81	54	1.8	68.5	0.104	0.74	--

Definitions

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

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

App Version 1.0