

CHEMICAL DATA - Analytes tested for in a lab, 2019 - MVTL, New Ulm

RR1 - Primary Lower Redwood River at Redwood CR17 near Redwood Falls -

STORET CODE - S001-679

2019 Wateryear (Oct 1, 2018 to Sept. 30, 2019)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L
Winter/Base	Grab	1/7/2019	11:40		19-A612	11		1.7	7.46	0.119	0.155
Winter/Base	Grab	2/28/2019	11:20		19-A7176	<2		<0.2	4.04	0.174	0.232
Snowmelt	Grab	3/17/2019	13:40		19-A10011	30		2.2	1.98	0.762^	0.860^
Snowmelt	Grab	3/20/2019	11:55		19-A10493	53		2.4	1.98	0.661^	0.920^
Snowmelt	Grab	3/22/2019	11:15		19-A10984	74		2.5	1.66	0.620^	1.150^
Snowmelt	Grab	3/23/2019	14:15		19-A11159	261		2.8	1.71	0.615^*	0.980^
Snowmelt	Grab	3/25/2019	11:40		19-A11161	127		2.3	1.82	0.488	0.820^
Snowmelt	Grab	3/28/2019	11:15		19-A11970	86		2.2	2.40	0.348	0.540^
Snowmelt	Grab	4/2/2019	15:10		19-A12770	50		1.4	3.02	0.225	0.389
Storm Event	Grab	4/18/2019	10:50		19-A16114	44		1.7	5.80	0.086	0.165
Storm Event	Grab	4/19/2019	12:00		19-A16518	62		1.5	5.07	0.058	0.200
Storm Event	Grab	4/24/2019	15:15		19-A18252	25		1.7	4.70	0.022	0.089
Storm Event	Grab	5/9/2019	11:45		19-A21370	87		1.7	7.03	0.089	0.160
Storm Event	Grab	5/13/2019	11:15		19-A21991	21		1.2	6.14	0.012	0.051
Storm Event	Grab	5/22/2019	10:30		19-A24275	31		2.0	5.53	0.020	0.059
Storm Event	Grab	5/28/2019	10:45		19-A24801	34		1.8	7.10	0.062	0.135
Base	Grab	6/10/2019	11:55		19-A27644	69		1.8	5.53	0.092	0.195
Storm Event	Grab	6/13/2019	15:35		19-A28807	345		2.9	6.46	0.081	0.402
Storm Event	Grab	6/14/2019	10:25		19-A28808	126		2.2	6.55	0.076	0.196
Storm Event	Grab	7/1/2019	10:40		19-A32243	523		4.6	8.39	0.225	0.565^
Storm Event	Grab	7/3/2019	11:25		19-A32942	130		2.4	8.96	0.221	0.387
Storm Event	Grab	7/6/2019	15:15		19-A33354	97		2.1	7.98	0.199*	0.289
Storm Event	Grab	7/8/2019	12:30		19-A33356	55		1.8	5.82	0.176	0.235
Storm Event	Grab	7/12/2019	11:20		19-A34716	44		1.5	5.04	0.176	0.213
Base	Grab	7/25/2019	14:05		19-A37612	123		1.6	5.16	0.140	0.254
Base	Grab	8/15/2019	12:10		19-A41484	50		1.5	2.76	0.132	0.208
Storm Event	Grab	8/19/2019	12:40		19-A41916	291		1.7	4.92	0.140	0.435
Storm Event	Grab	8/22/2019	12:20		19-A42792	131		1.8	5.23	0.139	0.249
Base	Grab	9/5/2019	15:00		19-A45185	32		1.7	2.64	0.115	0.202
Storm Event	Grab	9/12/2019	10:45		19-A46282	316		2.5	5.18	0.197	0.520^
Storm Event	Dup	9/12/2019	10:50		19-A46289	360		2.5	5.17	0.202	0.500^
Storm Event	Grab	9/15/2019	9:50		19-A46755	119		2.0	2.78	0.210	0.313
Storm Event	Grab	9/16/2019	10:50		19-A46759	57		1.9	2.68	0.209	0.265
Storm Event	Grab	9/19/2019	12:25		19-A47741	18		1.1	2.34	0.154	0.225
Base	Grab	10/17/2019	11:15		19-A53276	41		1.4	6.69	0.082	0.122
Storm Event	Grab	10/23/2019	11:50		19-A54462	102		1.8	8.05	0.162	0.300
Base	Grab	10/31/2019	11:00		19-A56147	42		0.9	6.92	0.077	0.129
Base	Grab	11/20/2019	11:05		19-A59512	32		1.8	6.33	0.058	0.130
Base	Grab	12/5/2019	11:45		19-A61975	25		1.0	6.30	0.063	0.126

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

Reporting timeframe has changed from the USGS Wateryear (Oct. 1 to Sept. 30)

To a calendar year system.

CHEMICAL DATA - Analytes tested for in a lab, 2019 - MVTL, New Ulm

NMRR2 - Redwood River, 0.5 mi North of Marshall on 300th Ave. -

STORET CODE - S001-203

2019 Wateryear (Oct 1, 2018 to Sept. 30, 2019)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L
Snowmelt	Grab	3/13/2019	14:30		19-A9561	26		1.6	3.62		0.500^
Snowmelt	Grab	3/19/2019	12:10		19-A10491	72		2.0	2.93		0.560^
Snowmelt	Grab	3/21/2019	13:50		19-A10982	274		2.3	2.51		0.670^
Snowmelt	Grab	3/25/2019	10:40		19-A11306	604		3.3	1.80		0.940^
Snowmelt	Grab	3/27/2019	15:40		19-A11967	616		2.8	1.83		0.830^
Snowmelt	Grab	4/2/2019	12:00		19-A12771	373		1.8	2.71		0.560^
Storm Event	Grab	4/18/2019	10:00		19-A16115	452		1.9	3.60		0.494
Storm Event	Grab	4/24/2019	14:25		19-A18379	170		0.4	3.04		0.233
Storm Event	Grab	5/10/2019	13:35		19-A21676	218		1.6	4.53		0.270
Storm Event	Grab	5/28/2019	11:30		19-A24802	265		2.4	3.86		0.338
Storm Event	Grab	6/3/2019	15:15		19-A26726	100		1.1	3.15		0.151
Storm Event	Grab	6/26/2019	14:40		19-A31558	52		1.5	3.64		0.191
Storm Event	Grab	7/2/2019	13:00		19-A32939	239		2.5	5.65		0.383
Base	Grab	7/31/2019	13:15		19-A38648	70		1.8	3.21		0.197
Base	Grab	8/14/2019	14:20		19-A41481	22		2.2	2.33		0.231
Storm Event	Grab	8/20/2019	15:10		19-A42796	184		2.7	3.81		0.313
Storm Event	Grab	9/11/2019	12:37		19-A46542	888		4.5	2.30		0.700^
Storm Event	Grab	9/12/2019	14:28		19-A46540	608		2.9	1.81		0.600^
Storm Event	Grab	9/16/2019	11:40		19-A46760	312		1.9	2.06		0.378
Base	Grab	10/17/2019	10:25		19-A53277	39		1.9	4.39		0.142
Storm Event	Grab	10/22/2019	13:40		19-A54466	151		1.9	3.87		0.290
Storm Event	Dup	10/22/2019	13:45		19-A54468	140		2.1	3.86		0.283
Base	Grab	10/30/2019	12:10		19-A56083	36		1.1	4.36		0.150

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

Reporting timeframe has changed from the USGS Wateryear (Oct. 1 to Sept. 30)

To a calendar year system.

CHEMICAL DATA - Analytes tested for in a lab, 2019 - MVTL, New Ulm

RRUS - Redwood River at Russell - Non-impacted stream/Western Corn Belt Plains

STORET CODE - S000-696

2019 Wateryear (Oct 1, 2018 to Sept. 30, 2019)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L
Snowmelt	Grab	3/19/2019	11:15		19-A10492	37		2.3	3.17		0.490^
Snowmelt	Grab	3/21/2019	14:25		19-A10983	262		2.3	2.41		0.710^
Snowmelt	Grab	3/25/2019	9:56		19-A11307	277		2.5	1.83		0.670^
Snowmelt	Grab	3/27/2019	15:00		19-A11968	552		3.7	1.78		0.850^
Snowmelt	Grab	4/2/2019	12:35		19-A12772	118		1.8	2.77		0.359
Storm Event	Grab	4/18/2019	9:15		19-A16116	333		1.8	3.65		0.362
Storm Event	Grab	4/24/2019	13:50		19-A18380	67		1.7	2.91		0.103
Storm Event	Grab	5/10/2019	12:50		19-A21677	84		1.7	4.73		0.145
Storm Event	Grab	5/28/2019	12:10		19-A24803	150		2.1	3.82		0.245
Storm Event	Grab	6/3/2019	14:35		19-A26727	42		1.0	3.08		0.056
Storm Event	Grab	6/26/2019	14:05		19-A31559	36		1.6	3.55		0.132
Storm Event	Grab	7/2/2019	12:10		19-A32940	102		2.1	5.17		0.216
Storm Event	Grab	7/5/2019	13:40		19-A33350	165		3.5	4.41		0.359
Base	Grab	7/31/2019	12:35		19-A38649	36		3.3	3.33		0.130
Base	Grab	8/14/2019	13:45		19-A41482	11		1.6	1.60		0.098
Storm Event	Grab	8/20/2019	14:30		19-A42797	97		2.3	3.61		0.186
Storm Event	Grab	9/11/2019	11:07		19-A46543	678		3.7	2.44		0.540^
Storm Event	Grab	9/12/2019	15:07		19-A46541	280		2.8	2.00		0.462
Storm Event	Grab	9/16/2019	12:15		19-A46761	135		1.4	2.05		0.261
Base	Grab	10/17/2019	9:50		19-A53278	34		1.5	4.10		0.071
Storm Event	Grab	10/22/2019	14:25		19-A54467	179		2.4	4.65		0.297
Storm Event	Dup	10/22/2019	14:30		19-A54475	176		2.8	4.69		0.295
Base	Grab	10/30/2019	11:30		19-A56084	22		1.2	4.31		0.077

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

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To a calendar year system.