

CHEMICAL DATA - Analytes tested for in a lab, 2020 - MVTL, New Ulm

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

STORET CODE - S001-679

2020 Wateryear (Oct 1, 2019 to Sept. 30, 2020)

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
Base	Grab	1/29/2020	11:20		20-A4424	2		1.2	4.77	0.149	0.192
Winter - Base	Grab	2/28/2020	11:10		20-A8230	7		2.3	3.72	0.348	0.453@
Snowmelt	Grab	3/9/2020	10:40		20-A10039	180		2.4	3.68	0.314	0.570^
Snowmelt	Grab	3/12/2020	13:00		20-A10942	75		2.2	4.06	0.183	0.350@
Snowmelt	Grab	3/16/2020	10:30		20-A11953	153		2.5	4.54	0.144	0.322
Baseflow	Grab	3/24/2020	10:00		20-A13152	87		1.5	4.70	0.094	0.210
Baseflow	Grab	5/12/2020	10:45		20-A20745	16		1.5	4.94	0.029	0.065
Storm Event	Grab	5/18/2020	10:35		20-A21851	108		7.5	7.78	0.055	0.196
Storm Event	Grab	5/20/2020	11:50		20-A22418	146		2.3	7.32	0.040	0.193
Storm Event	Grab	5/29/2020	11:35		20-A24041	98		1.8	6.08	0.062	0.190
Baseflow	Grab	6/17/2020	10:55		20-A27780	60		1.7	5.45	0.082	0.182
Baseflow	Grab	7/13/2020	13:05		20-A32752	65		1.3	3.37	0.142	0.225
Storm Event	Grab	7/27/2020	10:25		20-A35268	107		1.7	0.46	0.060	0.280
Storm Event	Grab	7/30/2020	10:20		20-A36297	157		1.6	3.34	0.134	0.316
Baseflow	Grab	8/21/2020	11:35		20-A40647	72		2.1	<0.05	0.006	0.206
Baseflow	Grab	9/18/2020	12:40		20-A46204	106		2.2	0.26	<0.005	0.261
Baseflow	Grab	10/22/2020	14:20		20-A52708	7		1.1	1.65	0.068	0.151
Baseflow	Dup	10/22/2020	14:25		20-A52709	9		1.1	1.68	0.067	0.151
Baseflow	Grab	11/6/2020	11:30		20-A54986	26		0.9	0.91	0.076	0.194
Winter - Base	Grab	12/30/2020	11:15		20-A62236	5		1.2	1.85	0.093	0.180

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

5/18/2020-TKN value to be excluded from FLUX

_@ = Reporting limit elevated due to Sample Matrix

CHEMICAL DATA - Analytes tested for in a lab, 2020 - MVTL, New Ulm

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

STORET CODE - S001-203

2020 Wateryear (Oct 1, 2019 to Sept. 30, 2020)

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	3/5/2020	15:15		20-A9936	337		3.2	3.18		0.762^
Snowmelt	Grab	3/9/2020	11:35		20-A10041	1150		3.9	2.81		1.27^
Snowmelt	Grab	3/11/2020	14:25		20-A10940	252		2.6	3.40		0.540^
Baseflow	Grab	3/24/2020	10:50		20-A13153	85		1.9	3.25		0.240
Baseflow	Grab	5/12/2020	11:45		20-A20746	26		1.2	3.46		0.193
Storm Event	Grab	5/18/2020	12:35		20-A21852	303		3.1	5.69		0.313
Storm Event	Grab	5/21/2020	16:55		20-A22892	125		1.9	4.44		0.184
Baseflow	Grab	6/9/2020	14:15		20-A26427	61		1.6	3.81		0.185
Baseflow	Grab	7/15/2020	11:35		20-A33671	42		1.5	3.36		0.278
Storm Event	Grab	7/27/2020	12:20		20-A35269	501		3.3	3.78		0.650^
Storm Event	Grab	7/30/2020	12:05		20-A36298	152		1.5	3.16		0.313
Baseflow	Grab	8/20/2020	12:40		20-A40644	15		2.1	4.73		0.780^
Baseflow	Grab	9/23/2020	10:40		20-A47201	6		1.5	7.98		0.840^
Baseflow	Grab	10/21/2020	12:40		20-A52705	7		1.2	1.63		0.920^

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2020 - MVTL, New Ulm

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

STORET CODE - S000-696

2020 Wateryear (Oct 1, 2019 to Sept. 30, 2020)

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	3/5/2020	14:25		20-A9937	140		2.7	3.52		0.650^
Snowmelt	Grab	3/9/2020	12:25		20-A10042	410		2.7	3.12		0.640^
Snowmelt	Grab	3/11/2020	13:50		20-A10941	140		2.3	3.40		0.390@
Baseflow	Grab	3/24/2020	11:45		20-A13154	47		1.4	2.99		0.121
Baseflow	Grab	5/12/2020	12:20		20-A20747	17		1.8	2.93		0.039
Storm Event	Grab	5/18/2020	13:10		20-A21853	167		2.3	5.48		0.206
Storm Event	Grab	5/21/2020	17:30		20-A22893	75		2.4	4.05		0.103
Baseflow	Grab	6/9/2020	13:30		20-A26437	46		1.6	3.39		0.104
Storm Event	Grab	6/26/2020	16:02		20-A30592	516		4.0	4.62		0.499
Baseflow	Grab	7/15/2020	10:55		20-A33672	32		1.2	2.31		0.097
Storm Event	Grab	7/27/2020	13:05		20-A35270	248		2.7	3.87		0.399
Storm Event	Grab	7/30/2020	12:55		20-A36299	81		1.2	2.40		0.213
Baseflow	Grab	8/20/2020	13:35		20-A40645	32		2.2	0.18		0.171
Baseflow	Grab	9/23/2020	9:55		20-A47202	11		0.9	<0.05		0.047
Baseflow	Grab	10/21/2020	12:05		20-A52706	5		1.0	0.08		0.029

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

_@ = Reporting limit elevated due to Sample Matrix