

CHEMICAL DATA - Analytes tested for in a lab, 2022 - MVTL, New Ulm

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

STORET CODE - S001-679

2022 Wateryear (Oct 1, 2021 to Sept. 30, 2022)

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	Grab	1/13/2022	12:15		22-A1499	5		1.1	4.79	0.315	0.360^
Winter	Grab	2/28/2022	12:20		22-A8570	7		1.4	5.16	0.327	0.383
Snowmelt	Grab	3/24/2022	11:50		22-A12649	168		3.3	5.72	0.520^	0.917^
Snowmelt	Grab	3/28/2022	11:40		22-A13083	43		1.9	4.26	0.232	0.300^
Storm Event	Grab	4/7/2022	14:25		22-A15269	76		3.0	5.38	0.281	0.510^
Storm Event	Grab	4/11/2022	11:15		22-A15420	32		1.2	4.90	0.140	0.209
Storm Event	Grab	4/14/2022	12:30		22-A16294	340		4.1	6.07	0.192	0.630^
Storm Event	Grab	4/18/2022	13:10		22-A16555	39		1.4	4.41	0.112	0.196
Base	Grab	4/28/2022	12:45		22-A19274	21		1.7	3.55	0.029	0.166
Storm Event	Grab	5/2/2022	13:40		22-A19706	240		3.0	8.60	0.057	0.350@
Storm Event	Grab	5/5/2022	12:15		22-A20843	161		2.2	7.98	0.059	0.255
Storm Event	Grab	5/12/2022	12:50		22-A22921	845		6.1	8.34	0.163	1.110^
Storm Event	Grab	5/13/2022	13:05		22-A23205	140		3.4	7.95	0.244*	0.650^
Storm Event	Grab	5/15/2022	12:45		22-A23559	130		2.3	5.56	0.176	0.388
Storm Event	Grab	5/16/2022	12:00		22-A23611	89		1.9	5.98	0.168	0.299
Storm Event	Grab	5/19/2022	12:45		22-A24861	54		2.5	6.65	0.115	0.214
Storm Event	Grab	5/31/2022	12:25		22-A26602	585		4.2	7.21	0.106	0.510^
Storm Event	Grab	6/2/2022	11:30		22-A27214	165		2.4	10.10	0.092	0.276
Base	Grab	6/14/2022	10:15		22-A29685	94		1.4	7.53	0.093	0.196
Base	Grab	7/15/2022	12:40		22-A36193	44		1.4	4.98	0.160	0.223
Base	Grab	9/8/2022	12:40		22-A46990	42		1.3	<0.05	<0.005	0.152
Base	Grab	10/7/2022	15:25		22-A51773	52		3.2	<0.05	0.011*	0.253
Base	Grab	10/10/2022	13:45		22-A51774	42		2.6	<0.05	<0.005	0.177
Base	Grab	10/13/2022	12:10		22-A52440	49		4.5	0.94	<0.005	0.258
Base	Grab	11/14/2022	13:30		22-A56220	4		1.1	2.79	0.142	0.194
Winter	Grab	12/28/2022	12:15		22-A59846	2		1.9	2.96	0.215	0.334

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

_@ = Reporting limit elevated due to Sample Matrix

CHEMICAL DATA - Analytes tested for in a lab, 2022 - MVTL, New Ulm**NMRR2 - Redwood River, 0.5 mi North of Marshall on 300th Ave. -****STORET CODE - S001-203****2022 Wateryear (Oct 1, 2021 to Sept. 30, 2022)**

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	3/23/2022	14:15		22-A12646	98		2.2	1.65		0.412
Base	Grab	4/27/2022	12:10		22-A19326	19		1.8	2.80		0.342
Storm Event	Grab	5/1/2022	12:50		22-A19700	633		4.5	6.44		0.600^
Storm Event	Grab	5/3/2022	14:15		22-A20840	163		2.3	6.85		0.246
Storm Event	Grab	5/12/2022	10:38		22-A23202	1910		8.8	4.14		1.500^
Storm Event	Grab	5/13/2022	12:05		22-A23206	543		5.3	5.16		1.200^
Storm Event	Grab	5/18/2022	14:20		22-A24858	144		3.0	4.60		0.294
Base	Grab	6/6/2022	12:05		22-A29038	73		1.5	4.79		0.150
Base	Grab	7/12/2022	12:00		22-A36190	28		1.4	4.02		0.384
Base	Grab	8/10/2022	9:55		22-A41758	10		1.5	7.04		0.940^
Base	Grab	10/4/2022	15:50		22-A51134	7		2.1	13.50		0.474

^ Sample Diluted due to result above calibration of linear range

CHEMICAL DATA - Analytes tested for in a lab, 2022 - MVTL, New Ulm

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

STORET CODE - S000-696

2022 Wateryear (Oct 1, 2021 to Sept. 30, 2022)

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	3/23/2022	13:40		22-A12647	54		3.2	1.02		0.332
Base	Grab	4/27/2022	11:35		22-A19272	5		1.9	1.77		0.045
Storm Event	Grab	5/1/2022	13:25		22-A19701	470		4.2	7.89		0.450@
Storm Event	Grab	5/3/2022	13:35		22-A20841	103		1.9	6.19		0.163
Storm Event	Grab	5/12/2022	9:45		22-A23203	270		4.8	6.06		0.870^
Storm Event	Grab	5/13/2022	11:15		22-A23207	173		3.7	5.67		0.730^
Storm Event	Grab	5/18/2022	13:40		22-A24859	79		2.6	4.84		0.166
Base	Grab	6/6/2022	11:15		22-A29039	41		1.9	4.52		0.076
Base	Grab	7/12/2022	11:15		22-A36191	30		1.6	1.30		0.095
Base	Grab	8/10/2022	9:05		22-A41759	30		1.4	0.27		0.083
Base	Grab	10/4/2022	14:30		22-A51135	7		0.6	<0.05		0.027

^ Sample Diluted due to result above calibration of linear range

_@ = Reporting limit elevated due to Sample Matrix