

CHEMICAL DATA - Analytes tested for in a lab, 2023 - MVTL, New Ulm

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

STORET CODE - S001-679

2023 Wateryear (Oct 1, 2022 to Sept. 30, 2023)

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	1/23/2023	12:35		23-A1986	8		0.670	4.28	0.390^	0.465
Base	Grab	2/27/2023	12:40		23-A4544	6		1.33	3.92	0.460^	0.490^
Base	Grab	3/24/2023	11:25		10424001	8		1.48	3.31	0.394	0.493
Snowmelt	Grab	4/10/2023	9:30		12010001	108		1.66	1.59	0.560^^	0.760
Snowmelt	Grab	4/12/2023	11:25		12274002	130		1.50	2.10	0.450^^	0.600
Snowmelt	Grab	4/14/2023	12:00		12582002	65		1.38	2.57	0.359	0.491
Snowmelt	Grab	4/17/2023	11:50		12692002	55		1.00	2.91	0.290	0.397
Base	Grab	4/27/2023	11:10		13770001	70		1.05	4.48	0.148	0.200
RainEvent	Grab	5/11/2023	11:00		15351001	355		1.66	3.82	0.181	0.590
RainEvent	Grab	5/12/2023	12:20		15480001	88		1.41	6.72	0.120	0.270
RainEvent	Grab	5/14/2023	14:25		15544001	170		1.32	8.18		0.430
RainEvent	Grab	5/15/2023	9:35		15547001	133		0.556	10.00		0.330
Base	Grab	5/30/2023	11:50		16871002	15		0.811	4.63	0.059	0.088
Base	Grab	6/23/2023	11:35		19179002	23		0.947	3.84	0.128	0.175
Base	Grab	7/24/2023	11:10		21713001	11		0.525	0.52	0.116	0.139
RainEvent	Grab	10/13/2023	11:45		31131002	14		0.667	0.43	0.080	0.142
RainEvent	Dup	10/13/2023	11:50		31131006	10		0.599	0.42	0.081	0.144
RainEvent	Grab	10/16/2023	11:20		31224002	22		0.850	1.18	0.157	0.212
Base	Grab	11/13/2023	12:55		33761002	7		0.769	2.91	0.198	0.262
Base	Grab	12/7/2023	12:30		36151002	3		0.554	2.80	0.285	0.393

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

_@ = Reporting limit elevated due to Sample Matrix

^^ = New report format - Sample required dilution due to high concentration of target analyte(s) - reporting limit has been raised.

CHEMICAL DATA - Analytes tested for in a lab, 2023 - MVTL, New Ulm

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

STORET CODE - S001-203 **2023 Wateryear (Oct 1, 2022 to Sept. 30, 2023)**

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	4/5/2023	12:35		11605001	24		2.04	2.43		0.620^^
Snowmelt	Grab	4/11/2023	12:00		12505001	753		1.46	2.65		1.030
Snowmelt	Grab	4/13/2023	11:30		12503001	630		1.42	2.79		0.760
Snowmelt	Grab	4/18/2023	11:15		12967001	152		1.35	2.65		0.440
Base	Grab	5/3/2023	14:45		14576001	55		1.78	1.72		0.157
Rain Event	Grab	5/16/2023	10:15		15729002	110		0.904	5.61		0.178
Base	Grab	6/7/2023	15:15		17823001	25		1.01	2.92		0.208
Base	Grab	7/13/2023	15:25		20925001	16		0.741	6.42		0.370
Base	Grab	8/30/2023	14:30		26390001	15		0.342	12.95		0.660
Base	Grab	10/18/2023	13:30		31733001	7		0.508	5.77		0.810
Base	Grab	10/30/2023	12:30		32631001	7		0.836	7.81		0.770

^^ = New report format - Sample required dilution due to high concentration of target analyte(s) - reporting limit has been raised.

CHEMICAL DATA - Analytes tested for in a lab, 2023 - MVTL, New Ulm

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

STORET CODE - S000-696

2023 Wateryear (Oct 1, 2022 to Sept. 30, 2023)

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	4/11/2023	11:10		12505002	323		1.52	3.25		0.620
Snowmelt	Grab	4/13/2023	12:10		12503002	287		1.48	2.95		0.560
Snowmelt	Grab	4/18/2023	10:45		12967002	71		1.38	2.53		0.320
Base	Grab	5/3/2023	14:00		14576002	60		2.16	2.31		0.319
Rain Event	Grab	5/16/2023	9:30		15729003	41		1.22	5.49		0.097
Base	Grab	6/7/2023	15:55		17823002	6		1.23	2.98		0.047
Base	Grab	7/13/2023	16:00		20925002	13		0.775	0.19		0.043
Base	Grab	10/18/2023	12:50		31733002	7		0.879	1.30		0.042
Base	Grab	10/30/2023	11:45		32631002	7		0.982	3.63		0.035