

**CHEMICAL DATA - Analytes tested for in a lab, 2015 - MVTL, New Ulm**

**RR1 - Primary Lower Redwood River at Redwood CR17 near Redwood Falls - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S001-679**

**2015 Wateryear (Oct 1, 2014 to Sept. 30, 2015)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /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	TURBIDITY NTU
Base	Grab	1/30/2015	11:40		15-A3290	2	2	1.0	4.48	1.01^	1.30^	9.6
Base	Grab	2/10/2015	9:50		15-A4158	8	6	0.8	5.33	1.18^	1.43^	6.1
Base	Grab	3/6/2015	10:20		15-A7074	5	3	1.9	5.78	1.17^	1.64^	4
Snowmelt	Grab	3/19/2015	10:00		15-A9279	12	6	1.1	1.60	0.414	0.508^	9.3
Base	Grab	4/8/2015	14:10		15-A12464	17	11	1.0	0.62	0.500	0.750^	16
Base	Grab	5/4/2015	10:40		15-A16398	64	24	2.6	<0.05	0.152	0.468	36
Storm Event	Grab	5/12/2015	12:30		15-A17898	99	25	2.3	1.05	0.875^	1.28^	51
Storm Event	Grab	5/18/2015	10:15		15-A19096	286	48	3.0	8.03	0.305	0.815^	180
Storm Event	Grab	5/21/2015	9:35		15-A20024	129	25	2.1	5.17	0.240^	0.450	74
Base	Grab	6/10/2015	9:45		15-A23520	111	22	1.7	4.51	0.182	0.466	67
Storm Event	Grab	6/22/2015	9:55		15-A25543	80	17	1.8	3.87	0.272^	0.475	46
Storm Event	Grab	6/23/2015	9:15		15-A25831	190	33	1.9	5.26	0.222	0.509^	100
Storm Event	Grab	6/24/2015	13:30		15-A26523	532	77	3.4	8.42	0.151	0.639	330
Storm Event	Grab	6/27/2015	13:50		15-A26959	240	42	2.3	7.09	0.180*	0.490^	150*
Storm Event	Grab	6/29/2015	11:00		15-A26963	209	33	1.9	5.32	0.189	0.483	120
Storm Event	Duplicate	6/29/2015	11:05		15-A26966	205	33	1.9	5.35	0.219^	0.462	130
Storm Event	Grab	7/8/2015	10:35		15-A28837	149	24	1.9	2.48	0.235	0.404	87
Base	Grab	7/15/2015	13:10		15-A30227	63	14	1.5	2.45	0.240^	0.344	44
Base	Grab	7/23/2015	9:35		15-A31978	38	10	1.1	0.80	0.242	0.381	25
Base	Grab	7/29/2015	9:45		15-A32775	110	19	1.4	0.85	0.173	0.477	74
Base	Grab	8/14/2015	9:25		15-A35844	39	10	1.1	0.68	0.380	0.560^	26
Base	Grab	8/31/2015	11:55		15-A38663	69	21	1.7	0.43	0.234	0.522^	43
Storm Event	Grab	9/3/2015	10:45		15-A39531	108	24	1.6	1.89	0.263	0.520^	62
Storm Event	Grab	9/4/2015	12:45		15-A39814	109	20	1.5	2.69	0.299	0.533^	66
Storm Event	Duplicate	9/4/2015	12:50		15-A39816	107	21	1.4	2.72	0.214	0.536^	69
Storm Event	Grab	9/10/2015	10:20		15-A40813	66	14	2.0	3.28	0.338	0.497	46
Base	Grab	9/30/2015	10:35		15-A44623	20	7	0.7	2.23	0.383	0.610^	17
Base	Grab	10/16/2015	10:00		15-A47726	11	<2	1.1	2.47	0.711^	0.780^	8.5
Base	Grab	10/30/2015	9:40		15-A50536	9	6	0.9	3.49	0.418	0.709^	7.2
Base	Grab	11/16/2015	12:35		15-A53075	18	6	0.9	3.80	0.408	0.830^	11
Base	Duplicate	11/16/2015	12:40		15-A53078	17	6	1.1	3.82	0.595^	0.840^	12
Base	Grab	12/11/2015	12:15		15-A56681	10	4	1.2	11.10	0.346	0.448	7.1
Base	Grab	12/21/2015	12:15		15-A57753	6	5	1.0	12.40	0.242	0.355	3.5

^ Sample Diluted due to result above calibration or 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, 2015 - MVTL, New Ulm**

**NMRR2 - Redwood River, 0.5 mi North of Marshall on 300th Ave. - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S001-203** 2015 Wateryear (Oct 1, 2014 to Sept. 30, 2015)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /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	TURB. NTU
Base	Grab	3/19/2015	10:55		15-A9280	12	6	2.1	4.00	0.898^	1.27^	8
Base	Grab	4/16/2015	10:30		15-A13884	20	8	1.5	6.34	0.186	2.22^	5.7
Base	Grab	5/4/2015	9:45		15-A16399	10	5	1.4	4.04	1.67^	1.880	4
Storm Event	Grab	5/12/2015	11:00		15-A17899	145	25	2.6	2.43	0.380	0.640^	73
Storm Event	Grab	5/21/2015	10:30		15-A20025	78	18	1.5	4.49	0.267^	0.503	42
Base	Grab	6/10/2015	11:10		15-A23521	39	5	1.4	4.11	0.250	0.484	18
Storm Event	Grab	6/20/2015	18:25		15-A25551	46	11	1.5	4.18	0.400^*	0.573^	24
Storm Event	Grab	6/22/2015	11:15		15-A25544	229	33	2.3	6.51	0.170	0.427	120
Storm Event	Grab	6/23/2015	10:20		15-A25832	530	97	3.3	7.36	0.153	0.750^	330
Storm Event	Grab	6/24/2015	12:20		15-A26524	237	38	2.4	7.68	0.102	0.444	150
Base	Grab	7/8/2015	11:45		15-A28838	107	18	1.9	3.75	0.142	0.311	56
Base	Grab	7/23/2015	10:40		15-A31979	37	10	1.3	2.28	0.435	0.670^	21
Storm Event	Grab	7/28/2015	15:25		15-A32772	182	27	2.1	3.98	0.193	0.482	110
Storm Event	Dup	7/28/2015	15:30		15-A32774	179	27	2.2	3.88	0.177	0.484	110
Base	Grab	8/14/2015	10:30		15-A35845	13	5	1.4	2.14	0.927^	1.10^	9.2
Storm Event	Grab	8/18/2015	14:20		15-A36484	200	31	1.6	1.00	0.261	0.629^	140
Storm Event	Grab	8/20/2015	13:10		15-A37117	89	16	1.2	1.93	0.550^	0.683^	55
Base	Grab	8/27/2015	11:35		15-A38558	18	8	1.6	2.46	0.726^	0.880^	7.7
Storm Event	Grab	8/28/2015	12:00		15-A38555	31	8	1.1	1.49	0.416	0.594^	16
Storm Event	Grab	9/3/2015	11:40		15-A39532	108	21	1.5	3.60	0.242	0.495	54
Base	Grab	9/30/2015	11:35		15-A44624	5	4	1.1	5.42	0.940^	1.44^	4.7
Base	Dup	9/30/2015	11:40		15-A44629	7	4	1.2	5.47	0.820^	1.45^	5.5
Base	Grab	10/16/2015	10:55		15-A47727	5	< 2	1.4	6.29	1.04^	2.29^	1.5
Base	Grab	10/30/2015	10:35		15-A50537	4	3	1.1	6.18	1.09^	1.61^	2.3

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time

(\*\*) Reporting limit elevated due to instrument performance at the RL

**CHEMICAL DATA - Analytes tested for in a lab, 2015 - MVTL, New Ulm**

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

**STORET CODE - S000-696**

**2015 Wateryear (Oct 1, 2014 to Sept. 30, 2015)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /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	TURBIDITY NTU
Snowmelt	Grab	3/19/2015	11:55		15-A9281	8	5	1.8	0.91	0.083	0.154	7.5
Base	Grab	4/16/2015	11:10		15-A13885	8	7	1.1	<0.05	0.014	0.048	6.2
Base	Grab	5/4/2015	8:45		15-A16400	7	4	1.1	0.37	0.022	<0.02~	4.3
Storm Event	Grab	5/12/2015	10:15		15-A17900	111	18	2.0	7.83	0.060	0.211	75
Base	Grab	5/21/2015	12:25		15-A20026	23	9	1.4	3.89	0.027	0.083	15
Base	Grab	6/10/2015	12:10		15-A23522	26	4	1.3	3.80	0.023	0.078	15
Storm Event	Grab	6/20/2015	17:30		15-A25545	305	42	2.8	7.42	0.068*	0.350	180
Storm Event	Grab	6/22/2015	12:10		15-A25549	1130	148	5.2	7.18	0.082	0.854^	540
Storm Event	Duplicate	6/22/2015	12:15		15-A25550	1150	152	5.3	7.14	0.101	0.893^	550
Storm Event	Grab	6/23/2015	11:20		15-A25833	203	32	2.2	8.37	0.123	0.352	120
Base	Grab	7/8/2015	12:25		15-A28839	50	10	1.5	4.24	0.062	0.141	26
Base	Grab	7/23/2015	11:25		15-A31980	49	12	1.4	0.30	0.079	0.166	31
Storm Event	Grab	7/28/2015	14:35		15-A32773	101	17	1.8	3.23	0.102	0.264	65
Base	Grab	8/14/2015	11:10		15-A35846	18	5	1.2	0.32	0.071	0.134	16
Storm Event	Grab	8/18/2015	13:35		15-A36485	58	12	1.6	0.98	0.113	0.251	46
Storm Event	Grab	8/28/2015	12:40		15-A38556	88	18	1.8	3.45	0.103	0.258	57
Storm Event	Duplicate	8/28/2015	12:45		15-A38557	86	17	1.6	3.45	0.107	0.261	58
Storm Event	Grab	9/2/2015	14:25		15-A39529	123	24	2.2	2.71	0.037	0.250	74
Storm Event	Grab	9/3/2015	12:35		15-A39533	127	23	1.9	4.70	0.068	0.331	76
Storm Event	Grab	9/10/2015	11:40		15-A40814	18	6	1.2	2.18	0.086	0.144	15
Base	Grab	9/30/2015	13:05		15-A44625	7	4	1.0	3.34	0.035	0.085	7
Base	Grab	10/16/2015	11:50		15-A47728	4	< 2	0.9	2.39	0.015	0.030	4.8
Base	Grab	10/30/2015	11:10		15-A50538	5	2	1.0	4.57	< 0.02~	0.028	4.7

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time