

CHEMICAL DATA - Analytes tested for in a lab, 2016 - MVT, New Ulm

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

STORET CODE - S001-679

2016 Wateryear (Oct 1, 2015 to Sept. 30, 2016)

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	TURBIDITY NTU
Base	Grab	1/29/2016	11:15		16-A3217	3	3	1.5	7.28	0.343	0.437	4.6
Base	Grab	2/26/2016	11:05		16-A5957	9		1.3	7.64	0.294	0.421	
Snowmelt	Grab	3/7/2016	10:55		16-A6877	266		2.2	7.64	0.177	0.545^	
Snowmelt	Grab	3/11/2016	10:20		16-A7820	221		2.5	6.87	0.112	0.407	
Base	Grab	3/22/2016	11:35		16-A9267	69		1.5	7.88	0.099	0.243	
Storm Event	Grab	3/31/2016	11:05		16-A10970	165		1.8	8.86	0.085	0.371	
Storm Event	Dup	3/31/2016	11:10		16-A10974	126		1.8	8.84	0.070	0.338	
Base	Grab	4/13/2016	10:35		16-A13424	49		1.7	9.79	0.077	0.185	
Storm Event	Grab	4/22/2016	10:20		16-A15577	100		1.8	7.34	0.095	0.286	
Storm Event	Grab	4/27/2016	10:35		16-A16188	90		1.7	10.20	0.081	0.218	
Storm Event	Grab	4/29/2016	10:50		16-A16795	168		2.0	13.6	0.077	0.304	
Storm Event	Grab	5/2/2016	11:50		16-A16992	109		1.5	15.00	0.070	0.200	
Storm Event	Grab	5/12/2016	11:40		16-A19536	93		1.3	13.10	0.084	0.195	
Storm Event	Grab	5/24/2016	10:45		16-A21566	52		1.1	12.30	0.077	0.161	
Storm Event	Grab	5/31/2016	8:45		16-A22808	152		1.9	16.00	0.104	0.287	
Storm Event	Grab	6/2/2016	13:10		16-A23367	132		1.9	16.20	0.099	0.269	
Storm Event	Grab	6/7/2016	9:55		16-A24844	97		2.1	15.20	0.061	0.199	
Storm Event	Grab	6/21/2016	10:40		16-A28120	66		1.3	15.50	0.101	0.217	
Storm Event	Dup	6/21/2016	10:45		16-A28123	70		1.6	15.40	0.085	0.222	
Storm Event	Grab	7/12/2016	10:30		16-A33135	32		1.1	5.21	0.174	0.231	
Storm Event	Grab	7/17/2016	13:20		16-A34582	145		1.3	7.40	0.185	0.373	
Storm Event	Grab	7/18/2016	16:10		16-A35217	193		2.0	13.40	0.136	0.402	
Storm Event	Grab	7/20/2016	11:45		16-A35871	227		2.1	10.60	0.128	0.330	
Storm Event	Grab	7/28/2016	11:40		16-A37677	70		1.8	6.61	0.124	0.307	
Storm Event	Grab	8/12/2016	11:40		16-A40649	173		2.5	3.25	0.166	0.510^	
Storm Event	Grab	8/20/2016	7:40		16-A42299	88		1.6	16.90	0.189*	0.260	
Storm Event	Grab	9/1/2016	10:55		16-A44766	29		1.2	14.50	0.147	0.216	
Storm Event	Grab	9/7/2016	14:10		16-A45958	67		1.4	16.20	0.157	0.292	
Storm Event	Grab	9/26/2016	12:40		16-A51098	45		1.4	16.40	0.166	0.226	
Storm Event	Grab	10/7/2016	14:50		16-A54284	108		1.8	13.60	0.175*	0.318	
Storm Event	Grab	10/10/2016	10:15		16-A54290	54		1.5	15.90	0.130	0.186	
Base	Grab	11/14/2016	11:30		16-A61671	7		1.1	12.60	0.074	0.096	
Storm Event	Grab	11/30/2016	14:10		16-A63905	62		1.4	16.10	0.091	0.182	
Storm Event	Grab	12/5/2016	13:20		16-A64416	24		1.4	15.90	0.079	0.155	

^ 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, 2016 - 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

2016 Wateryear (Oct 1, 2015 to Sept. 30, 2016)

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	TURB. NTU
Base	Grab	3/2/2016	12:40		16-A6428	24		1.4	10.10	0.150	0.234	
Snowmelt	Grab	3/9/2016	16:15		16-A7763	354		2.6	6.52	0.112	0.488	
Snowmelt	Grab	3/11/2016	11:15		16-A7821	168		1.9	6.63	0.125	0.337	
Base	Grab	3/22/2016	10:40		16-A9268	34		1.5	6.84	0.146	0.276	
Storm Event	Grab	3/30/2016	14:30		16-A10967	103		1.5	7.82	0.113	0.327	
Base	Grab	4/13/2016	11:35		16-A13425	12		1.4	8.11	0.055	0.131	
Storm Event	Grab	4/22/2016	11:15		16-A15578	75		1.6	6.80	0.133	0.281	
Storm Event	Dup	4/22/2016	11:20		16-A15581	76		1.7	6.80	0.123	0.277	
Storm Event	Grab	4/28/2016	14:40		16-A16799	98		1.7	6.16	0.078	0.250	
Storm Event	Grab	5/11/2016	14:55		16-A19540	57		1.6	6.34	0.078	0.185	
Base	Grab	5/24/2016	11:40		16-A21567	25		1.1	8.06	0.100	0.188	
Storm Event	Grab	5/29/2016	8:15		16-A22600	143		1.9	6.50	0.043*	0.245	
Storm Event	Grab	5/31/2016	12:45		16-A22809	119		1.4	11.60	0.117	0.286	
Storm Event	Grab	6/7/2016	11:30		16-A24845	60		1.5	8.62	0.056	0.160	
Base	Grab	6/29/2016	16:15		16-A30912	13		1.4	3.97	0.146	0.282	
Base	Grab	7/12/2016	11:45		16-A33136	35		1.1	3.81	0.285	0.408	
Storm Event	Grab	7/17/2016	14:50		16-A34583	518		3.1	1.79	0.072	0.581^	
Storm Event	Grab	7/18/2016	14:20		16-A35218	289		2.5	7.21	0.139	0.475	
Base	Grab	7/27/2016	14:50		16-A37681	71		1.5	5.28	0.155	0.296	
Base	Grab	8/17/2016	12:45		16-A41893	6		1.2	4.55	0.634^	0.770^	
Base	Grab	9/1/2016	12:15		16-A44767	11		1.0	5.18	0.770^	0.890^	
Storm Event	Grab	9/25/2016	17:25		16-A51095	33		0.9	3.39	0.217	0.334	
Storm Event	Grab	10/5/2016	11:40		16-A53822	28		1.7	4.26	0.228	0.306	
Storm Event	Grab	10/7/2016	13:25		16-A54285	74		1.6	7.80	0.150*	0.293	
Storm Event	Grab	10/10/2016	11:15		16-A54291	53		1.7	8.02	0.093	0.204	
Base	Grab	10/31/2016	9:50		16-A59257	9		1.1	6.27	0.255	0.309	

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

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

CHEMICAL DATA - Analytes tested for in a lab, 2016 - MVT, New Ulm

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

STORET CODE - S000-696 2016 Wateryear (Oct 1, 2015 to Sept. 30, 2016)

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	TURBIDITY NTU
Snowmelt	Grab	3/2/2016	11:45		16-A6429	38		1.3	9.50	0.110	0.170	
Snowmelt	Grab	3/9/2016	15:30		16-A7764	162		2.1	6.56	0.094*	0.301	
Snowmelt	Grab	3/11/2016	11:50		16-A7822	89		1.9	6.60	0.056	0.172	
Base	Grab	3/22/2016	9:50		16-A9269	37		1.2	6.91	0.012	0.083	
Storm Event	Grab	3/30/2016	13:45		16-A10968	50		1.8	8.20	0.005	0.085	
Base	Grab	4/13/2016	12:15		16-A13426	14		1.4	8.24	0.006	0.044	
Storm Event	Grab	4/22/2016	12:00		16-A15579	39		1.6	8.08	0.007	0.062	
Storm Event	Grab	4/28/2016	13:55		16-A16800	101		1.3	8.23	0.016	0.138	
Storm Event	Grab	5/11/2016	14:00		16-A19541	50		1.6	7.58	0.015*	0.064	
Base	Grab	5/24/2016	12:25		16-A21568	17		1.1	7.80	0.009	0.037	
Storm Event	Grab	5/29/2016	7:17		16-A22601	173		2.5	14.40	0.072*	0.342	
Storm Event	Grab	5/31/2016	13:25		16-A22810	63		1.7	11.20	0.044	0.148	
Base	Grab	6/7/2016	12:40		16-A24846	33		1.7	8.86	0.015	0.075	
Base	Grab	6/29/2016	15:15		16-A30913	8		1.1	3.90	0.014	0.039	
Base	Duplicate	6/29/2016	15:20		16-A30914	8		1.1	3.92	0.014	0.036	
Base	Grab	7/12/2016	12:35		16-A33137	23		1.7	4.54	0.045	0.104	
Storm Event	Grab	7/17/2016	15:30		16-A34584	378		2.1	5.97	0.152	0.541^	
Storm Event	Grab	7/18/2016	13:00		16-A35219	140		1.7	7.19	0.130	0.333	
Base	Grab	7/27/2016	15:25		16-A37682	54		1.4	3.74	0.059	0.160	
Base	Grab	8/17/2016	12:05		16-A41894	8		0.9	0.41	0.056	0.115	
Base	Grab	9/1/2016	12:50		16-A44768	7		1.0	0.20	0.069	0.101	
Storm Event	Grab	9/25/2016	16:40		16-A51096	77		1.5	7.53	0.103	0.210	
Storm Event	Grab	10/5/2016	12:25		16-A53823	124		1.7	7.05	0.071	0.222	
Storm Event	Grab	10/7/2016	12:25		16-A54286	84		2.1	8.77	0.087*	0.206	
Storm Event	Grab	10/10/2016	12:00		16-A54292	39		1.6	7.52	0.065	0.116	
Base	Grab	10/31/2016	10:45		16-A59258	6		1.4	5.40	0.012	0.040	

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time