

CHEMICAL DATA - Analytes tested for in a lab, 2014 - MVTL, New Ulm

PLC001 - Primary Lower Cottonwood River near New Ulm - Non-impacted stream/Western Corn Belt Plains

STORET CODE - S001-918

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
Baseflow	Grab	1/24/2014	11:50		14-A2563	<2	<2	0.7	1.88	0.022	0.028	1.9
Baseflow	Grab	2/28/2014	13:25		14-A5894	4	3	1.0	2.06	0.020	0.037	6.3
Snowmelt	Grab	3/11/2014	14:45		14-A6821	88	36	2.0	16.20	0.143	0.265	68
Snowmelt	Grab	3/13/2014	14:40		14-A7213	128	28	1.7	1.50	0.123	0.443^	100
Snowmelt	Grab	3/17/2014	13:30		14-A7441	242	73	3.9	4.18	0.749^	1.110	98
Snowmelt	Dup	3/17/2014	13:35		14-A7442	203	30	3.6	4.08	0.794^	1.120	95
Snowmelt	Grab	3/20/2014	14:55		14-A7998	127	22	2.8	3.78	0.486	0.800	63
Snowmelt	Grab	3/28/2014	12:50		14-A8872	86	24	2.3	2.84	0.327	0.519	47
Snowmelt	Grab	4/9/2014	15:05		14-A10752	64	13	2.0	3.07	0.184	0.352	40
Baseflow	Grab	4/21/2014	14:35		14-A12346	24	12	1.0	<0.20	0.005	0.083	9.3
Storm Event	Grab	4/28/2014	14:40		14-A13387	92	17	1.4	0.32	<0.005	0.119	69
Storm Event	Grab	4/29/2014	14:50		14-A13716	86	15	1.4	2.44	0.028	0.171	48
Storm Event	Grab	5/1/2014	15:50		14-A14395	62	19	1.5	5.50	0.053	0.154	27
Storm Event	Grab	5/3/2014	16:10		14-A14754	48	11	1.1	5.17	0.039*	0.144	21
Storm Event	Grab	5/5/2014	13:45		14-A14757	27	7	1.3	4.74	0.008	0.104	9.9
Storm Event	Grab	5/13/2014	14:45		14-A16436	188	32	2.5	9.00	0.142	0.412	120
Storm Event	Dup	5/13/2014	14:50		14-A16437	178	32	2.5	8.99	0.155	0.410	120
Storm Event	Grab	5/16/2014	14:15		14-A17496	53	12	1.4	6.75	0.035	0.146	24
Baseflow	Grab	5/30/2014	14:30		14-A19722	33	15	1.7	2.20	0.006	0.062	13
Storm Event	Grab	6/2/2014	15:20		14-A19967	572	88	1.7	11.50	0.071	0.495	230
Storm Event	Grab	6/3/2014	14:00		14-A20205	190	22	2.8	12.90	0.132	0.511^	220
Storm Event	Grab	6/4/2014	15:20		14-A20788	261	41	2.5	14.70	0.108	0.376	130
Storm Event	Grab	6/6/2014	14:50		14-A21370	253	105	2.0	14.50	0.112	0.316	87
Storm Event	Grab	6/12/2014	14:30		14-A22531	135	21	1.4	11.60	0.081	0.250	76
Storm Event	Grab	6/15/2014	17:10		14-A23051	772	104	4.4	11.60	0.130	0.860^	320
Storm Event	Grab	6/16/2014	15:35		14-A23061	352	45	4.0	14.20	0.207	0.890^	360
Storm Event	Grab	6/17/2014	14:10		14-A23281	450	60	2.1	8.16	0.143	0.343	260
Storm Event	Grab	6/18/2014	14:25		14-A23802	888	92	3.6	13.00	0.143	0.850^	400
Storm Event	Grab	6/19/2014	13:50		14-A24013	1550	160	4.6	8.82	0.136	1.20^	620
Storm Event	Grab	6/20/2014	13:30		14-A24309	736	84	3.1	7.93	0.134	0.825^	360
Storm Event	Grab	6/22/2014	17:05		14-A24503	352	38	2.4	9.55	0.134	0.432	110
Storm Event	Grab	6/26/2014	14:10		14-A25638	162	21	1.7	10.90	0.118	0.281	90
Storm Event	Grab	7/7/2014	13:15		14-A27289	72	13	1.4	10.70	0.104	0.186	34
Baseflow	Grab	7/30/2014	15:50		14-A32017	48	20	1.9	2.12	<0.02*~	0.069	22
Baseflow	Grab	8/13/2014	15:45		14-A34270	32	14	1.2	0.88	0.010	0.066	21
Baseflow	Grab	8/29/2014	14:40		14-A37106	38	16	1.2	0.36	0.006	0.067	20
Baseflow	Dup	8/29/2014	14:45		14-A37108	41	15	1.4	0.36	0.006	0.064	23
Storm Event	Grab	9/11/2014	11:45		14-A39136	38	13	1.5	2.37	0.007	0.085	23
Storm Event	Grab	9/16/2014	14:30		14-A39995	35	9	1.2	5.99	0.090	0.159	27
Baseflow	Grab	10/15/2014	13:20		14-A45634	4	4	0.9	1.49	<0.02~	0.019	2.4
Baseflow	Grab	11/10/2014	13:00		14-A50992	5	4	0.6	1.45	0.017	0.011	4
Baseflow	Grab	12/29/2014	11:15		14-A56596	6	4	0.5	3.23	0.043	0.018	8.4

^ 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, 2013- MVTL, New Ulm

PLS005 - Primary Lower Sleepy Eye Creek near Cobden - Non-impacted stream/Western Corn Belt Plains

STORET CODE - S001-919

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
Snowmelt	Grab	3/13/2014	13:45		14-A7212	24	10	5.0	4.54	0.923^	1.26^	24
Snowmelt	Grab	3/17/2014	12:30		14-A7440	27	10	4.1	6.53	1.32^	1.560	21
Snowmelt	Grab	3/20/2014	14:00		14-A7997	31	9	3.6	5.23	1.02^	1.330	15
Snowmelt	Grab	3/28/2014	11:55		14-A8871	7	3	2.7	3.07	0.610^	0.769	14
Snowmelt	Grab	4/9/2014	13:45		14-A10751	14	8	2.0	3.24	0.189	0.293	21
Snowmelt	Dup	4/9/2014	13:50		14-A10754	18	8	1.8	3.25	0.182	0.299	20
Baseflow	Grab	4/21/2014	13:25		14-A12345	10	6	1.0	0.72	0.024	0.108	4.8
Storm Event	Grab	4/29/2014	14:00		14-A13715	8	5	1.4	4.27	0.060	0.151	10
Storm Event	Grab	5/1/2014	14:15		14-A14394	11	11	1.5	11.5	0.105	0.162	5.7
Storm Event	Grab	5/3/2014	15:20		14-A14753	9	3	1.4	11.3	0.053*	0.127	4.8*
Storm Event	Grab	5/13/2014	13:30		14-A16435	24	7	1.4	11.3	0.076	0.166	19
Storm Event	Grab	5/16/2014	13:15		14-A17495	7	4	1.0	13.2	0.022	0.054	4.1
Baseflow	Grab	5/30/2014	13:10		14-A19721	13	10	1.4	4.83	0.062	0.133	7.1
Storm Event	Grab	6/2/2014	14:15		14-A19966	260	52	3.0	15.80	0.247	0.570^	180
Storm Event	Grab	6/3/2014	12:45		14-A20204	55	10	1.8	18.10	0.238	0.406	76
Storm Event	Grab	6/4/2014	14:15		14-A20787	81	23	2.0	20.4^	0.194	0.314	45
Storm Event	Grab	6/12/2014	13:20		14-A22530	40	8	3.0	21.2^	0.073	0.138	20
Storm Event	Grab	6/15/2014	16:15		14-A23050	244	52	4.1	15.50	0.253	0.670^	180
Storm Event	Dup	6/15/2014	16:20		14-A23054	228	48	3.9	15.50	0.235	0.574^	180
Storm Event	Grab	6/16/2014	14:10		14-A23060	103	23	2.6	19.10	0.229	0.433	71
Storm Event	Grab	6/18/2014	13:20		14-A23801	408	76	4.1	14.30	0.166	0.680^	270
Storm Event	Grab	6/19/2014	12:50		14-A24012	400	100	3.6	7.44	0.256	0.780^	330
Storm Event	Grab	6/20/2014	12:30		14-A24308	92	18	2.1	10.90	0.214	0.429	110
Storm Event	Grab	6/22/2014	16:15		14-A24502	64	13	1.7	14.80	0.192	0.360	49
Baseflow	Grab	7/9/2014	13:55		14-A27998	9	9	1.3	17.30	0.077	0.116	3.4
Baseflow	Grab	7/30/2014	14:35		14-A32016	8	7	1.4	4.69	<0.02*~	0.054	9.7
Baseflow	Grab	8/13/2014	14:30		14-A34269	7	3	0.8	0.90	0.027	0.065	5.1
Baseflow	Grab	8/29/2014	13:20		14-A37105	55	31	1.5	<0.2	<0.005	0.112	16
Baseflow	Grab	9/11/2014	10:40		14-A39135	49	25	1.8	0.71	0.006	0.132	16
Baseflow	Grab	9/29/2014	13:10		14-A42375	4	3	0.7	0.71	0.023	0.042	2.1
Baseflow	Dup	9/29/2014	13:15		14-A42376	4	3	1.0	0.70	0.022	0.043	2.5
Baseflow	Grab	10/15/2014	12:15		14-A45633	2	2	0.9	1.78	<0.02~	0.025	4.6

^ 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, 2014 - MVTL, New Ulm

PLC010 - Primary Lower Cottonwood River near Leavenworth - Non-impacted stream/Western Corn Belt Plains

STORET CODE - S001-920

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	3/13/2014	13:10		14-A7211	24	10	4.0	3.40	0.882^	1.12^	22
Snowmelt	Grab	3/17/2014	12:00		14-A7439	45	11	3.4	4.04	0.741^	0.960	29
Snowmelt	Grab	3/20/2014	13:35		14-A7996	50	10	2.4	3.20	0.394	0.538	25
Snowmelt	Grab	3/28/2014	11:30		14-A8870	27*	9*	1.8	2.14	0.146	0.272	17
Snowmelt	Grab	4/9/2014	13:20		14-A10750	30	11	1.4	2.20	0.080	0.192	23
Base	Grab	4/21/2014	13:00		14-A12344	25	11	1.1	<0.2	0.007	0.085	10
Storm Event	Grab	4/29/2014	13:35		14-A13714	20	6	1.0	1.22	0.037	0.117	11
Storm Event	Grab	5/1/2014	13:45		14-A14393	48	17	2.3	2.45	0.037	0.120	19
Storm Event	Dup	5/1/2014	13:50		14-A14399	51	12	1.4	2.42	0.038	0.118	18
Storm Event	Grab	5/3/2014	15:00		14-A14752	33	7	1.1	3.42	0.024*	0.123	15*
Storm Event	Grab	5/5/2014	12:45		14-A14758	20	6	1.1	2.91	0.008	0.074	10
Storm Event	Grab	5/13/2014	13:10		14-A16434	46	7	1.3	4.18	0.048	0.157	25
Storm Event	Grab	5/15/2014	12:35		14-A17091	37	10	1.1	3.94	0.018	0.126	15
Storm Event	Grab	5/16/2014	12:50		14-A17494	28	8	1.0	4.48	0.020	0.102	13
Base	Grab	5/30/2014	12:45		14-A19720	13	8	1.0	1.28	0.019	0.086	4.9
Storm Event	Grab	6/2/2014	13:50		14-A19965	156	30	1.7	8.08	0.116	0.341	73
Storm Event	Grab	6/3/2014	12:20		14-A20203	230	31	2.6	8.87	0.081	0.355	110
Storm Event	Grab	6/4/2014	13:50		14-A20786	182	36	2.2	12.30	0.080	0.310	84
Storm Event	Grab	6/6/2014	13:50		14-A21369	305	171	1.9	10.80	0.077	0.254	73
Storm Event	Grab	6/12/2014	12:55		14-A22529	132	20	2.7	8.47	0.068	0.255	59
Storm Event	Dup	6/12/2014	13:00		14-A22533	117	19	2.4	8.48	0.083	0.260	61
Storm Event	Grab	6/15/2014	15:50		14-A23049	352	68	3.4	8.88	0.179	0.690^	200
Storm Event	Grab	6/16/2014	13:50		14-A23059	442	72	3.4	10.60	0.095	0.690^	220
Storm Event	Grab	6/17/2014	13:15		14-A23280	236	44	2.2	15.60	0.111	0.680^	140
Storm Event	Grab	6/19/2014	12:20		14-A24011	236	32	2.6	8.40	0.156	0.412	150
Storm Event	Grab	6/20/2014	12:05		14-A24307	102	20	1.7	7.92	0.120	0.307	76
Storm Event	Grab	6/22/2014	15:55		14-A24501	110	32	1.8	8.34	0.087	0.255	49
Base	Grab	7/9/2014	13:30		14-A27997	64	12	1.3	7.26	0.072	0.145	26
Base	Grab	7/30/2014	14:10		14-A32015	31	14	0.9	1.74	0.022*	0.107	12
Base	Grab	8/13/2014	14:05		14-A34268	23	6	0.8	0.92	0.018	0.088	13
Base	Grab	8/29/2014	13:00		14-A37104	29	11	0.8	0.54	0.024	0.124	12
Base	Grab	9/11/2014	10:20		14-A39134	154	26	1.8	2.55	0.137	0.346	99
Base	Grab	9/16/2014	13:15		14-A39994	43	11	1.4	6.54	0.123	0.184	29
Base	Dup	9/16/2014	13:20		14-A39998	44	12	1.5	6.50	0.120	0.180	30
Base	Grab	10/15/2014	11:40		14-A45632	3	3	1.1	2.32	<0.02~	0.032	4.6

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

~ Reporting limit elevated due to instrument performance at the RL