

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

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

**STORET CODE - S001-918**

**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	14:15		15-A3291	3	3	0.4	3.04	0.016	0.034	4.6
Base	Grab	2/10/2015	12:20		15-A4159	10	5	<0.2	3.41	0.025	0.032	2.2
Base	Grab	3/6/2015	12:50		15-A7075	4	3	1.2	2.56	0.019	0.027	3.9
Snowmelt	Grab	3/15/2015	12:45		15-A8533	111	18	1.2	1.02	0.051	0.166	52
Snowmelt	Grab	3/19/2015	15:05		15-A9284	16	4	1.0	1.31	0.040	0.093	11
Base	Grab	4/8/2015	15:30		15-A12465	14	10	0.4	0.09	<0.02~	0.038	7.9
Base	Grab	5/4/2015	13:30		15-A16403	15	10	1.5	0.09	0.015	<0.02~	8.1
Storm Event	Grab	5/15/2015	14:30		15-A18920	67	17	1.1	0.93	0.008	0.112	27
Storm Event	Grab	5/18/2015	15:00		15-A19106	177	23	2.0	4.87	0.036	0.223	81
Storm Event	Grab	5/20/2015	13:30		15-A19792	162	20	1.7	6.08	0.049	0.191	82
Storm Event	Grab	5/22/2015	12:55		15-A20224	100	14	2.0	8.57	0.049	0.157	53
Storm Event	Grab	6/1/2015	16:00		15-A21448	159	22	1.8	8.94	0.071	0.298	70
Storm Event	Grab	6/3/2015	15:00		15-A22016	112	18	1.4	11.50	0.066	0.200	52
Storm Event	Grab	6/10/2015	15:05		15-A23525	134	22	1.6	11.10	0.056	0.239	73
Storm Event	Grab	6/22/2015	15:25		15-A25548	492	62	2.5	7.90	0.046	0.371	290
Storm Event	Grab	6/23/2015	14:25		15-A25836	748	96	3.3	9.90	0.095	0.697^	340
Storm Event	Grab	6/24/2015	16:45		15-A26527	378	56	3.4	13.10	0.074	0.539	280
Storm Event	Grab	6/27/2015	16:00		15-A26961	207	31	1.8	12.40	0.102	0.301	110
Storm Event	Grab	6/29/2015	13:00		15-A26965	174	27	1.8	10.60	0.089	0.290	91
Storm Event	Grab	7/8/2015	15:45		15-A28843	281	31	1.9	9.40	0.091	0.354	120
Storm Event	Grab	7/9/2015	16:00		15-A29243	266	43	2.2	11.60	0.110	0.345	150
Storm Event	Grab	7/15/2015	15:45		15-A30229	102	18	1.6	8.87	0.061	0.184	62
Storm Event	Duplicate	7/15/2015	15:50		15-A30230	96	17	1.5	8.83	0.062	0.167	62
Base	Grab	7/23/2015	14:20		15-A31983	41	15	1.6	3.15	0.007	0.066	21
Base	Grab	8/14/2015	14:30		15-A35849	16	8	0.8	0.27	<0.005	0.039	9
Storm Event	Grab	8/19/2015	10:30		15-A36417	83	14	1.1	0.54	0.007	0.127	45
Storm Event	Duplicate	8/19/2015	10:35		15-A36418	82	17	1.2	0.52	0.008	0.129	49
Storm Event	Grab	8/20/2015	16:00		15-A37120	161	23	1.1	0.71	0.025	0.194	88
Storm Event	Grab	8/21/2015	9:50		15-A37140	239	30	1.4	1.28	0.054	0.292	130
Storm Event	Grab	8/24/2015	13:25		15-A37363	139	18	1.4	5.63	0.104	0.245	83
Storm Event	Grab	8/31/2015	13:50		15-A38664	72	17	1.7	2.38	0.009	0.113	41
Storm Event	Grab	9/10/2015	14:10		15-A40815	50	13	1.1	3.76	0.061	0.152	32
Storm Event	Grab	9/30/2015	16:30		15-A44628	61	13	1.4	9.32	0.052	0.175	39
Base	Grab	10/16/2015	15:00		15-A47731	7	3	0.8	5.28	0.006	0.0275	3.6
Base	Grab	10/30/2015	14:45		15-A50541	14	5	0.9	8.64	<0.02~	0.056	8.4
Storm Event	Grab	11/12/2015	12:45		15-A52622	140	25	1.8	8.14	0.078	0.301	110
Storm Event	Duplicate	11/12/2015	12:50		15-A52623	148	26	1.9	8.32	0.099	0.301	110
Storm Event	Grab	11/16/2015	13:45		15-A53076	39	8	1.1	11.90	0.031*	0.121	21
Storm Event	Grab	11/19/2015	12:05		15-A53799	504	72	2.9	13.50	0.107	0.570^	210
Storm Event	Grab	11/20/2015	12:05		15-A54066	436	68	2.8	14.50	0.110	0.670^	220
Storm Event	Grab	11/23/2015	12:00		15-A54206	78	14	2.0	15.80	0.069	0.201	57
Storm Event	Grab	12/11/2015	13:35		15-A56780	45	7	1.2	16.70	0.044	0.111	31
Storm Event	Grab	12/21/2015	13:30		15-A57754	27	6	1.0	16.30	0.043	0.097	18

^ 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**

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

**STORET CODE - S001-919**

**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
Snowmelt	Grab	3/19/2015	14:05		15-A9283	2	2	1.1	1.01	0.054	0.082	3
Base	Grab	5/4/2015	12:40		15-A16402	10	5	1.4	0.06	0.029	0.050	6.6
Storm Event	Grab	5/18/2015	13:50		15-A19105	115	26	2.4	12.40	0.183	0.435	83
Storm Event	Grab	5/21/2015	14:30		15-A20027	10	5	1.4	15.20	0.088	0.121	5
Base	Grab	6/3/2015	14:05		15-A22010	17	8	0.8	14.50	0.035	0.076	8
Base	Grab	6/5/2015	12:15		15-A22586	26	9	1.5	16.40^	0.057	0.124	13
Base	Grab	6/10/2015	14:10		15-A23524	19	3	1.4	13.60	0.039	0.103	10
Storm Event	Grab	6/22/2015	14:20		15-A25547	648	112	4.2	5.95	0.174	0.627^	340
Storm Event	Grab	6/23/2015	13:30		15-A25835	115	24	2.1	14.70	0.176	0.343	66
Storm Event	Grab	6/24/2015	15:40		15-A26526	65	13	2.1	18.50	0.096	0.259	30
Storm Event	Grab	7/8/2015	14:30		15-A28842	27	7	1.8	14.70	0.064	0.122	12
Base	Grab	7/23/2015	13:20		15-A31982	10	6	0.9	1.58	0.026	0.071	4.3
Base	Grab	8/14/2015	13:15		15-A35848	10	8	0.9	0.06	0.061	0.135	4.8
Storm Event	Grab	8/19/2015	9:20		15-A36416	11	5	0.8	0.54	0.094	0.208	9.4
Storm Event	Grab	8/20/2015	15:10		15-A37119	8	6	0.9	0.74	0.151	0.267	6.4
Storm Event	Grab	9/3/2015	14:15		15-A39534	14	8	0.8	0.26	0.055	0.144	5.8
Base	Grab	9/30/2015	15:15		15-A44627	4	3	0.7	0.10	0.025	0.089	4.7
Base	Grab	10/16/2015	13:45		15-A47730	5	2	0.2	< 0.05	0.043	0.061	2.2
Base	Duplicate	10/16/2015	13:50		15-A47732	3	3	0.4	< 0.05	0.041	0.060	2.4
Base	Grab	10/30/2015	13:45		15-A50540	4	2	0.7	1.66	< 0.02**	0.032	3.3
Base	Duplicate	10/30/2015	13:50		15-A50542	3	3	0.5	1.67	< 0.02**	0.034	2.2

^ 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**

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

**STORET CODE - S001-920 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	3/15/2015	11:30		15-A8532	24	7	1.2	1.05	0.071	0.160	16.0
Snowmelt	Grab	3/19/2015	13:35		15-A9282	6	2	1.0	1.25	0.057	0.087	6
Base	Grab	4/16/2015	12:50		15-A13886	13	8	1.3	0.78	0.007	0.060	9
Base	Grab	5/4/2015	12:20		15-A16401	18	8	1.4	0.33	0.022	0.043	9
Storm Event	Grab	5/15/2015	13:20		15-A18919	34	11	1.2	3.49	0.029	0.099	11
Storm Event	Grab	5/18/2015	13:15		15-A19097	82	14	1.5	5.81	0.057	0.162	33
Storm Event	Grab	5/20/2015	12:32		15-A19791	93	19	1.7	7.56	0.061	0.206	47
Storm Event	Grab	5/22/2015	12:00		15-A20223	70	12	2.0	8.10	0.066	0.156	29
Storm Event	Grab	6/3/2015	13:45		15-A22009	132	23	1.7	10.80	0.075	0.226	63
Storm Event	Grab	6/5/2015	11:50		15-A22585	135	24	2.2	10.3^	0.058	0.251	66
Storm Event	Grab	6/10/2015	13:50		15-A23523	161	21	2.1	12.70	0.052	0.278	82
Storm Event	Grab	6/22/2015	13:55		15-A25546	207	33	2.1	9.95	0.111	0.338	99
Storm Event	Grab	6/23/2015	13:00		15-A25834	390	64	3.1	10.10	0.155	0.589^	210
Storm Event	Grab	6/24/2015	15:15		15-A26525	238	42	2.4	12.80	0.057	0.384	140
Storm Event	Grab	6/27/2015	14:55		15-A26960	172	30	1.8	10.80	0.106	0.311	76*
Storm Event	Grab	6/29/2015	12:05		15-A26964	142	25	1.6	9.27	0.082	0.277	73
Storm Event	Grab	7/8/2015	14:05		15-A28841	238	40	2.7	9.07	0.083	0.357	130
Storm Event	Duplicate	7/8/2015	14:10		15-A28851	242	39	2.3	8.95	0.079	0.371	130
Storm Event	Grab	7/9/2015	14:15		15-A29242	163	29	2.4	11.60	0.110	0.281	96
Base	Grab	7/15/2015	14:25		15-A30228	83	18	1.2	7.88	0.065	0.185	53
Base	Grab	7/23/2015	13:00		15-A31981	45	14	1.4	2.82	0.008	0.096	19
Base	Grab	8/14/2015	12:50		15-A35847	10	5	0.9	0.24	0.011	0.073	5
Storm Event	Grab	8/19/2015	8:45		15-A36415	75	14	0.8	0.66	0.071	0.202	37
Storm Event	Grab	8/20/2015	14:40		15-A37118	126	24	1.6	3.32	0.101	0.356	73
Storm Event	Grab	8/24/2015	12:15		15-A37362	111	18	1.4	5.62	0.117	0.261	63
Storm Event	Grab	9/4/2015	13:55		15-A39815	116	23	1.8	2.09	0.030	0.205	54
Storm Event	Duplicate	9/4/2015	14:00		15-A39817	96	19	1.8	2.09	0.027	0.211	48
Storm Event	Grab	9/30/2015	14:45		15-A44626	45	10	1.1	9.58	0.064	0.167	29
Base	Grab	10/16/2015	13:25		15-A47729	6	3	1.1	6.28	0.022	0.0535	3.4
Base	Grab	10/30/2015	13:10		15-A50539	8	4	1.1	9.33	0.039	0.071	7.3