

**CHEMICAL DATA - Analytes tested for in a lab, 2020 - MVTL, New Ulm**

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

**STORET CODE - S001-918**

**2020 Wateryear (Oct 1, 2019 to Sept. 30, 2020)**

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
Winter/Base	Grab	1/29/2020	12:45		20-A4425	6		1.0	5.48	0.040	0.051
Winter/Base	Grab	2/28/2020	14:00		20-A8231	31		2.4	3.52	0.333	0.570^
Snowmelt	Grab	3/6/2020	13:15		20-A9940	416		3.0	3.99	0.530^	0.910^
Snowmelt	Grab	3/9/2020	15:15		20-A10040	445		2.9	4.30	0.245	0.690^
Snowmelt	Grab	3/12/2020	15:10		20-A10945	178		2.1	4.74	0.140@	0.430@
Snowmelt	Grab	3/16/2020	11:40		20-A11954	124		2.0	5.09	0.114	0.252
Baseflow	Grab	3/24/2020	14:40		20-A13157	70		1.3	6.30	0.072	0.153
Baseflow	Grab	5/12/2020	15:15		20-A20750	18		1.8	6.02	<0.02'	0.029
Storm Event	Grab	5/18/2020	16:00		20-A21856	464		2.9	11.40	0.114	0.479
Storm Event	Grab	5/20/2020	14:00		20-A22421	249		2.3	10.40	0.066	0.289
Storm Event	Grab	5/29/2020	13:50		20-A24044	107		1.8	8.46	0.043	0.167
Baseflow	Grab	6/17/2020	14:00		20-A27783	88		1.6	7.35	0.037	0.141
Storm Event	Grab	6/29/2020	16:00		20-A29654	2120		5.1	4.78	0.075*	1.09^
Storm Event	Grab	7/2/2020	14:35		20-A30591	171		2.2	8.38	0.137	0.317
Storm Event	Grab	7/9/2020	14:15		20-A31776	216		2.4	6.65	0.108	0.310
Baseflow	Grab	7/17/2020	14:00		20-A33675	54		1.8	3.77	0.008	0.057
Storm Event	Grab	7/27/2020	16:20		20-A35273	333		2.1	4.07	0.107	0.461
Storm Event	Grab	7/30/2020	16:15		20-A36302	140		1.8	5.01	0.090	0.231
Baseflow	Grab	8/21/2020	13:40		20-A40649	47		1.6	0.64	0.006	0.079
Baseflow	Grab	9/18/2020	14:45		20-A46206	44		2.1	0.54	<0.005	0.094
Baseflow	Grab	10/23/2020	13:05		20-A52712	10		1.2	1.24	0.008	0.052
Baseflow	Dup	10/23/2020	13:10		20-A52715	11		0.9	1.25	0.009	0.052
Baseflow	Grab	11/6/2020	12:55		20-A54987	19		1.2	1.20	0.005	0.041
Winter/Base	Grab	12/30/2020	12:45		20-A62237	5		1.3	2.22	0.006	0.019

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

` The reporting limit (RL) was elevated due to instrument performance at the lower limit of quantitation (LLOQ)

\_@ Reporting limit elevated due to sample matrix

**CHEMICAL DATA - Analytes tested for in a lab, 2020- MVTL, New Ulm**

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

**STORET CODE - S001-919**

**2020 Wateryear (Oct 1, 2019 to Sept. 30, 2020)**

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
Snowmelt	Grab	3/6/2020	12:25		20-A9939	141		2.5	5.71		1.06^
Snowmelt	Grab	3/9/2020	14:25		20-A10044	191		2.3	6.24		0.488
Snowmelt	Grab	3/12/2020	14:20		20-A10944	44		2.2	7.87		0.239
Baseflow	Grab	3/24/2020	13:50		20-A13156	21		1.2	9.58		0.107
Baseflow	Grab	5/12/2020	14:20		20-A20749	12		1.6	10.10		0.031
Storm Event	Grab	5/18/2020	15:00		20-A21855	205		2.5	14.00		0.331
Storm Event	Grab	5/20/2020	13:05		20-A22420	93		1.7	12.70		0.140
Storm Event	Grab	5/29/2020	12:55		20-A24043	43		1.3	11.90		0.090
Baseflow	Grab	6/17/2020	12:50		20-A27782	103		2.0	10.40		0.172
Storm Event	Grab	6/29/2020	15:00		20-A29653	457		3.8	7.75		0.530^
Storm Event	Grab	7/2/2020	13:20		20-A30590	109		2.2	10.80		0.250
Baseflow	Grab	7/17/2020	12:55		20-A33674	32		1.1	4.15		0.023
Storm Event	Grab	7/26/2020	15:45		20-A35266	223		2.4	3.36		0.360
Storm Event	Grab	7/27/2020	15:05		20-A35272	91		2.0	8.12		0.309
Storm Event	Grab	7/30/2020	14:55		20-A36301	10		1.1	6.97		0.117
Baseflow	Grab	10/23/2020	12:05		20-A52711	2		0.8	1.49		0.030
Baseflow	Dup	10/23/2020	12:10		20-A52714	2		1.4	1.51		0.026

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

**CHEMICAL DATA - Analytes tested for in a lab, 2020 - MVTL, New Ulm**

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

**STORET CODE - S001-920** **2020 Wateryear (Oct 1, 2019 to Sept. 30, 2020)**

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
Snowmelt	Grab	3/6/2020	12:00		20-A9938	108		2.5	3.47		0.570^
Snowmelt	Grab	3/9/2020	14:05		20-A10043	361		2.4	3.64		0.610^
Snowmelt	Grab	3/12/2020	14:00		20-A10943	145		1.0	4.10		0.352
Baseflow	Grab	3/24/2020	13:25		20-A13155	61		1.3	5.18		0.139
Baseflow	Grab	5/12/2020	13:55		20-A20748	15		1.6	4.96		0.030
Storm Event	Grab	5/18/2020	14:40		20-A21854	224		2.9	7.86		0.317
Storm Event	Grab	5/20/2020	12:45		20-A22419	154		2.3	8.85		0.218
Storm Event	Grab	5/29/2020	12:35		20-A24042	98		1.6	7.21		0.171
Baseflow	Grab	6/17/2020	12:25		20-A27781	87		1.4	6.30		0.155
Storm Event	Grab	6/29/2020	14:35		20-A29652	258		1.7	5.41		0.323
Storm Event	Grab	7/2/2020	13:05		20-A30585	151		2.0	5.41		0.242
Storm Event	Grab	7/7/2020	16:05		20-A31774	320		2.5	4.48		0.439
Storm Event	Grab	7/9/2020	13:15		20-A31775	190		2.1	6.81		0.304
Baseflow	Grab	7/17/2020	12:25		20-A33673	35		1.5	3.79		0.068
Storm Event	Grab	7/27/2020	14:45		20-A35271	203		1.8	2.39		0.314
Storm Event	Grab	7/30/2020	14:35		20-A36300	108		1.6	4.22		0.221
Baseflow	Grab	8/21/2020	12:30		20-A40648	25		1.8	<0.05		0.079
Baseflow	Grab	9/18/2020	13:35		20-A46205	20		1.5	0.09		0.066
Baseflow	Grab	10/23/2020	11:30		20-A52710	7		0.8	0.42		0.046
Baseflow	Dup	10/23/2020	11:35		20-A52713	4		0.9	0.42		0.046

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time