

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVT, New Ulm

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

STORET CODE - S001-918

2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

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
Winter Base	Grab	1/9/2018	14:05		18-A1276	8		1.0	8.07	0.025	0.036
Winter Base	Grab	2/14/2018	14:10		18-A5620	2		0.8	5.94	0.033	0.036
Snowmelt	Grab	3/15/2018	12:45		18-A10939	14		2.6	4.70	0.241^*	0.366
Snowmelt	Grab	3/19/2018	14:00		18-A12075	94		4.5	4.71	0.778^	1.070
Snowmelt	Grab	3/22/2018	14:50		18-A13292	294		4.6	5.09	0.758^	1.290
Snowmelt	Grab	3/29/2018	14:40		18-A14712	646		4.6	6.14	0.382	1.050
Snowmelt	Grab	4/2/2018	14:25		18-A15204	226		3.6	5.94	0.404	0.677
Snowmelt	Grab	4/12/2018	14:15		18-A17294	210		2.2	5.93	0.202	0.493
Snowmelt	Grab	4/16/2018	13:30		18-A17753	143		2.4	5.17	0.180	0.540^
Snowmelt - Event	Grab	4/21/2018	17:05		18-A18818	319		2.7	5.88	0.286*	0.730^
Snowmelt - Event	Grab	4/23/2018	11:35		18-A19111	376		3.2	5.32	0.299	0.810^
Snowmelt - Event	Grab	4/25/2018	13:40		18-A19370	620		3.0	3.85	0.189	0.810^
Snowmelt - Event	Grab	5/3/2018	12:40		18-A21070	150		2.3	5.79	0.112	0.269
Base	Grab	5/18/2018	14:20		18-A24413	41		1.5	5.70	0.020	0.089
Storm Event	Grab	5/24/2018	14:50		18-A25511	297		2.3	7.70	0.046	0.309
Storm Event	Grab	5/27/2018	12:55		18-A25848	117		1.9	8.65	0.071*	0.215
Storm Event	Grab	6/8/2018	14:05		18-A28475	896		3.0	7.03	0.076	
SWAG	Grab	6/8/2018	14:00		18-A28479						0.630^
Storm Event	Grab	6/10/2018	16:20		18-A28762	560		3.6	9.79	0.181	0.670^
Storm Event	Grab	6/15/2018	11:05		18-A29910	112		1.9	11.80	0.095	0.281
Storm Event	Grab	6/19/2018	14:20		18-A30480	211		2.0	11.20	0.146	0.352
Storm Event	Grab	6/22/2018	13:00		18-A31372	362		2.9	9.89	0.187	0.600^
Storm Event	Grab	6/28/2018	14:05		18-A32855	193		1.7	9.16	0.119	0.273
Storm Event	Grab	7/5/2018	14:30		18-A34082	770		2.7	2.39	0.088	0.880^
Storm Event	Grab	7/6/2018	14:15		18-A34356	580		2.1	2.64	0.095	0.560^
Storm Event	Grab	7/9/2018	14:50		18-A34501	274		1.4	3.57	0.152	
SWAG	Grab	7/9/2018	14:55		18-A34493						0.364
Storm Event	Grab	7/18/2018	14:05		18-A36609	148		1.2	6.08	0.134	0.295
Storm Event	Grab	7/21/2018	16:20		18-A37480	300		1.7	7.58	0.131	0.442
Storm Event	Grab	7/30/2018	15:25		18-A39419	91		1.6	6.47	0.117	
SWAG	Grab	7/30/2018	15:30		18-A39427						0.249
Base	Grab	8/23/2018	14:20		18-A44208	62		1.5	3.51	0.012	
SWAG	Grab	8/23/2018	14:25		18-A44216						0.092
Storm Event	Grab	9/21/2018	13:30		18-A50191	609		3.0	5.75	0.183	0.790^
Storm Event	Dup	9/21/2018	13:35		18-A50195	635		3.2	5.74	0.229	0.750^
Storm Event	Grab	9/22/2018	18:30		18-A50960	474		2.6	4.63	0.172	0.620^
Storm Event	Grab	9/24/2018	12:40		18-A50965	249		1.7	5.77	0.160	0.396
Storm Event	Grab	10/11/2018	12:10		18-A55821	320		2.3	8.47	0.216	0.490^
Base	Grab	11/1/2018	9:45		18-A60153	31		1.1	8.33	0.030	0.088
Base	Grab	11/15/2018	13:05		18-A64699	30		1.0	8.64	0.030	0.070
Base	Grab	12/19/2018	14:15		18-A70554	19		1.0	7.86	0.023	0.049

^ 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, 2018- MVTL, New Ulm

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

STORET CODE - S001-919

2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

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
Snowmelt	Grab	3/22/2018	13:45		18-A13291	30		4.8	9.57		1.470
Snowmelt	Grab	3/26/2018	13:45		18-A13452	15		2.8	11.20		0.354
Snowmelt	Grab	3/29/2018	13:45		18-A14711	147		4.6	10.40		1.120
Snowmelt	Grab	4/2/2018	13:30		18-A15203	27		2.3	13.80		0.401
Snowmelt	Grab	4/12/2018	13:15		18-A17293	74		2.8	8.32		0.700
Snowmelt - Event	Grab	4/20/2018	13:00		18-A18776	48		2.5	11.20		0.351
Snowmelt - Event	Grab	4/21/2018	16:15		18-A18817	124		2.9	6.70		0.780^
Snowmelt - Event	Grab	4/23/2018	13:15		18-A19110	66		2.7	5.00		0.750^
Snowmelt - Event	Grab	4/27/2018	11:45		18-A19931	52		1.8	10.60		0.334
Base	Grab	5/18/2018	13:25		18-A24412	16		2.0	10.70		0.062
Storm Event	Grab	5/24/2018	13:35		18-A25510	120		1.7	14.90		0.277
Storm Event	Grab	5/27/2018	12:00		18-A25847	50		1.4	13.90		0.136
Storm Event	Grab	6/8/2018	12:35		18-A28474	379		3.5	13.10		0.500^
Storm Event	Grab	6/10/2018	15:30		18-A28761	93		2.4	15.70		0.352
Storm Event	Grab	6/13/2018	14:35		18-A29343	76		1.5	16.20	0.134	0.215
Storm Event	Grab	6/20/2018	13:45		18-A30746	77		1.5	17.00		0.195
Storm Event	Grab	6/22/2018	11:55		18-A31371	54		1.3	14.80		0.320
Storm Event	Grab	6/28/2018	13:20		18-A32856	62		1.4	17.20		0.152
Storm Event	Grab	7/4/2018	14:15		18G0104-06	110		1.3	4.20		0.379
Storm Event	Grab	7/5/2018	13:35		18-A34081	75		1.4	3.38		0.333
Storm Event	Grab	7/9/2018	13:30		18-A34500	38		1.4	4.68		0.296
Storm Event	Grab	7/18/2018	13:15		18-A36608	64		1.3	10.40		0.262
Storm Event	Grab	7/20/2018	12:35		18-A37340	112		2.2	8.04		0.354
Storm Event	Grab	7/30/2018	13:35		18-A39418	28		1.4	10.50		0.228
Base	Grab	8/23/2018	13:10		18-A44207	12		1.5	9.50		0.185
Storm Event	Grab	9/21/2018	12:05		18-A50190	71		2.1	6.06		0.442
Storm Event	Dup	9/21/2018	12:10		18-A50194	76		2.5	6.09		0.446
Storm Event	Grab	9/22/2018	16:25		18-A50959	39		1.8	7.48		0.360
Storm Event	Grab	9/24/2018	11:35		18-A50964	53		1.5	9.97		0.312
Storm Event	Grab	10/11/2018	11:20		18-A55820	55		1.9	11.00		0.378
Base	Grab	10/31/2018	14:45		18-A60152	11		1.4	13.60		0.059

^ 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, 2018 - MVT, New Ulm

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

STORET CODE - S001-920

2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

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
Snowmelt	Grab	3/26/2018	13:20		18-A13451	203		3.8	4.47		0.714
Snowmelt	Grab	3/29/2018	13:20		18-A14710	330		3.9	4.49		0.788
Snowmelt	Grab	4/2/2018	13:00		18-A15202	137		3.1	5.23		0.628
Snowmelt	Grab	4/12/2018	12:50		18-A17292	356		3.2	3.93		0.642
Snowmelt	Grab	4/16/2018	12:30		18-A17752	93		2.4	4.53		0.412
Snowmelt - Event	Grab	4/21/2018	15:50		18-A18816	106		2.0	5.09		0.370
Snowmelt - Event	Grab	4/23/2018	12:45		18-A19109	212		3.2	4.29		0.570^
Snowmelt - Event	Grab	4/25/2018	12:40		18-A19369	132		2.3	3.00		0.425
Snowmelt - Event	Grab	4/30/2018	11:45		18-A20089	100		2.0	4.51		0.264
Base	Grab	5/18/2018	13:00		18-A24411	35		1.2	4.73		0.094
Storm Event	Grab	5/24/2018	13:10		18-A25509	325		2.8	6.82		0.432
Storm Event	Grab	5/27/2018	11:30		18-A25846	96		1.6	6.75		0.218
Storm Event	Grab	6/8/2018	12:10		18-A28473	220		2.4	6.40		
SWAG	Grab	6/8/2018	12:05		18-A28476						0.337
Storm Event	Grab	6/10/2018	15:10		18-A28760	283		3.6	7.49		0.530^
Storm Event	Grab	6/13/2018	14:10		18-A29342	120		1.9	9.43		0.273
Storm Event	Grab	6/19/2018	13:15		18-A30479	216		2.2	9.06		0.374
Storm Event	Grab	6/22/2018	11:30		18-A31370	180		1.9	5.51		0.486
Storm Event	Grab	6/25/2018	12:20		18-A31686	46		1.9	7.04		0.255
Storm Event	Grab	7/4/2018	14:30		18G0104-07	360		2.2	3.70		
Storm Event	Grab	7/4/2018	14:30		18G0104-07RE1						0.586
Storm Event	Grab	7/5/2018	13:00		18-A34080	134		1.9	2.08		0.422
Storm Event	Grab	7/9/2018	13:00		18-A34499	54		1.4	3.18		
SWAG	Grab	7/9/2018	13:05		18-A34490						0.253
Storm Event	Grab	7/18/2018	12:50		18-A36607	93		1.4	4.72		0.286
Storm Event	Grab	7/20/2018	12:15		18-A37339	128		1.9	4.88		0.329
Storm Event	Grab	7/30/2018	13:05		18-A39417	79		1.4	4.90		
SWAG	Grab	7/30/2018	13:10		18-A39424						0.236
Base	Grab	8/23/2018	12:45		18-A44206	20		1.3	2.78		
SWAG	Grab	8/23/2018	12:50		18-A44213						0.117
Storm Event	Grab	9/21/2018	11:40		18-A50189	283		2.6	3.20		0.650^
Storm Event	Dup	9/21/2018	11:45		18-A50193	297		2.9	3.20		0.650^
Storm Event	Grab	9/22/2018	16:05		18-A50958	110		1.8	3.39		0.379
Storm Event	Grab	9/24/2018	11:05		18-A50963	57		1.8	4.55		0.271
Storm Event	Grab	10/11/2018	11:00		18-A55819	180		2.3	5.70		0.395
Base	Grab	10/31/2018	14:20		18-A60151	20		1.2	6.86		0.079

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