

FIELD DATA - Measurements taken on site, 2019

Minnesota River at Morton - Minnesota River where crossed by MN State Hwy 19 just West of Morton

Non-impacted stream/Western Corn Belt Plains

STORET CODE - S000-145**USGS ID - 05316580****EQuIS ID - E28012001**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Winter/Base	1/7/2019		10:55					
Iceout/snowmelt	3/23/2019		13:05				6	
Iceout/snowmelt	3/25/2019		11:00				4	
Iceout/snowmelt	3/28/2019		10:30				6	
Iceout/snowmelt	3/31/2019		11:45				8	
Storm Event	4/18/2019		11:35				9	
Storm Event	4/25/2019		9:30				23	
Storm Event	5/13/2019		10:50				26	
Storm Event	5/22/2019		10:00				26	
Storm Event	5/28/2019		10:00				14	
Base Flow	6/10/2019		11:10				29	
Storm Event	7/1/2019		10:05				2	
Storm Event	7/3/2019		10:45				6	
Storm Event	7/6/2019		16:00				8	
Storm Event	7/8/2019		13:10				15	
Storm Event	7/12/2019		10:40				18	
Base Flow	7/25/2019		14:30				18	
Base Flow	8/15/2019		11:15				15	
Storm Event	8/19/2019		11:50				11	
Storm Event	8/22/2019		11:45				15	
Base Flow	9/5/2019		14:15				17	
Storm Event	9/12/2019		10:05				6	
Storm Event	9/15/2019		10:20				11	
Base Flow	10/17/2019		12:00				26	
Storm Event	10/23/2019		10:55				12	
Storm Event	10/31/2019		10:15				39	
Base Flow	11/20/2019		10:10				45	
Base Flow	12/5/2019		10:55				55	

AIS - no probes in use here

CHEMICAL DATA - Analytes tested for in a lab, 2019 - MVTL, New Ulm

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STORET CODE - S000-145

USGS ID - 05316580

EQuIS ID - E28012001

SAMP TYPE	DATE	LAB SAMPLE ID #	TIME	TSS MG/L	TSVS MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU	N- NO2+NO3 MG/L	TKN MG/L
Iceout/snowmelt	3/23/2019	19-A11158	13:05	168		0.532 [^] *	0.840 [^]		1.71	2.7
Iceout/snowmelt	3/25/2019	19-A11160	11:00	171		0.573 [^]	0.820 [^]		1.82	2.5
Iceout/snowmelt	3/28/2019	19-A11969	10:30	106		0.431	0.650 [^]		2.05	2.3
Iceout/snowmelt	3/31/2019	19-A12427	11:45	80		0.294	0.550 [^]		1.80	2.2
Duplicate	3/31/2019	19-A12428	11:50	78		0.311	0.550 [^]		1.81	1.9
Storm Event	4/18/2019	19-A16113	11:35	74		0.160	0.358		3.53	1.7
Storm Event	4/25/2019	19-A18381	9:30	37		0.067	0.206		2.61	2.1
Storm Event	5/13/2019	19-A21990	10:50	31		0.005	0.089		3.42	1.8
Storm Event	5/22/2019	19-A24274	10:00	35		0.007	0.095		4.01	2.3
Storm Event	5/28/2019	19-A24800	10:00	45		<0.02~	0.135		4.18	1.7
Base Flow	6/10/2019	19-A27643	11:10	40		0.097	0.155		2.55	1.9
Storm Event	7/1/2019	19-A32242	10:05	920		0.132	0.542 [^]		3.04	4.2
Storm Event	7/3/2019	19-A32941	10:45	170		0.186	0.376		6.77	2.6
Storm Event	7/6/2019	19-A33352	16:00	157		0.180*	0.291		5.81	2.2
Storm Event	7/8/2019	19-A33355	13:10	75		0.201	0.270		4.84	2.1
Storm Event	7/12/2019	19-A34715	10:40	54		0.176	0.246		3.32	1.7
Base Flow	7/25/2019	19-A37611	14:30	62		0.184	0.298		1.69	1.9
Base Flow	8/15/2019	19-A41483	11:15	86		0.137	0.275		0.86	1.9
Storm Event	8/19/2019	19-A41915	11:50	109		0.128	0.286		1.53	1.8
Storm Event	8/22/2019	19-A42791	11:45	70		0.117	0.225		1.83	2.3
Base Flow	9/5/2019	19-A45184	14:15	68		0.029	0.214		0.41	2.6
Storm Event	9/12/2019	19-A46281	10:05	262		0.126	0.371		2.92	1.9
Storm Event	9/15/2019	19-A46754	10:20	101		0.173	0.268		4.39	1.8
Base Flow	10/17/2019	19-A53275	12:00	27		0.067	0.102		3.66	1.9
Storm Event	10/23/2019	19-A54461	10:55	94		0.176	0.339		5.43	2.3
Storm Event	10/31/2019	19-A56146	10:15	26		0.059	0.110		3.87	1.2
Base Flow	11/20/2019	19-A59511	10:10	19		0.028	0.102		3.14	1.8
Base Flow	12/5/2019	19-A61974	10:55	19		0.027	0.082		3.33	1.2

* = Holding Time Exceeded

[^] = sample diluted due to result above calibration or linear range

~ = Reporting limit elevated due to instrument performance at the RL