

FIELD DATA - Measurements taken on site, 2014

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

STORET CODE - S001-918

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Baseflow	1/24/2014		11:50					
Baseflow	2/28/2014		13:25				>100	
Snowmelt	3/11/2014		14:45	1.6	11.37	7.81	14	925
Snowmelt	3/13/2014		14:40	3.2	10.95	7.71	8	845
Snowmelt	3/17/2014		13:30	0.8	12.31	8.60	13	368
Snowmelt	3/20/2014		14:55	0.9	12.75	8.60	14	455
Snowmelt	3/28/2014		12:50	1.8	13.21	8.16	17	660
Snowmelt	4/9/2014		15:05	11.0	11.00	8.27	15	710
Baseflow	4/21/2014		14:35	18.8	13.93	8.94	41	830
Storm Event	4/28/2014		14:40	8.2	11.47	9.07	13	817
Storm Event	4/29/2014		14:50	7.4	12.33	8.48	20	800
Storm Event	5/1/2014		15:50	7.5	12.43	8.46	33	865
Storm Event	5/3/2014		16:10	13.4	11.95	8.78	37	980
Storm Event	5/5/2014		13:45	14.4	12.76	8.63	43	1005
Storm Event	5/13/2014		14:45	12.5	9.89	8.18	8	735
Storm Event	5/16/2014		14:15	12.4	11.39	8.89	31	975
Baseflow	5/30/2014		14:30	27.3	10.86	8.43	37	905
Storm Event	6/2/2014		15:20	21.8	7.08	7.94	5	715
Storm Event	6/3/2014		14:00	20.4	7.63	8.15	5	695
Storm Event	6/4/2014		15:20	21.8	7.67	8.19	7	825
Storm Event	6/6/2014		14:50	22.2	8.17	8.15	10	960
Storm Event	6/12/2014		14:30	21.1	8.49	8.30	11	1060
Storm Event	6/15/2014		17:10	19.8	8.01	8.28	3	815
Storm Event	6/16/2014		15:35				3	
Storm Event	6/17/2014		14:10	19.1	7.63	8.10	5	740
Storm Event	6/18/2014		14:25	20.2	7.50	8.08	3	685
Storm Event	6/19/2014		13:50	20.7	7.07	7.83	2	535
Storm Event	6/20/2014		13:30	21.9	6.74	7.78	2	525
Storm Event	6/22/2014		17:05	23.7	7.00	8.00	6	730
Storm Event	6/26/2014		14:10	23.3	7.73	8.27	10	920
Storm Event	7/7/2014		13:15	25.4	8.45	8.37	21	1010
Baseflow	7/30/2014		15:50	26.3	11.09	8.63	23	800
Baseflow	8/13/2014		15:45	27.5	10.17	8.55	31	785
Baseflow	8/29/2014		14:40	23.6	10.67	8.44	31	748
Storm Event	9/11/2014		11:45	15.3	12.81	8.60	39	888
Storm Event	9/16/2014		14:30	17	10.02	8.41	28	933
Baseflow	10/15/2014		13:20	12.4	12.95	9.35	>100	890
Baseflow	11/10/2014		13:00	2.4	13.18	9.57	>100	950
Baseflow	12/29/2014		11:15	-0.2		7.85	>100	1040

FIELD DATA - Measurements taken on site, 2014

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

STORET CODE - S001-919

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Snowmelt	3/13/2014		13:45	1.3	10.60	7.43	28	298
Snowmelt	3/17/2014		12:30	0.4	11.08	8.04	45	368
Snowmelt	3/20/2014		14:00	0.8	11.41	7.50	36	395
Snowmelt	3/28/2014		11:55	0.7	11.67	7.76	73	486
Snowmelt	4/9/2014		13:45	6.0	11.42	7.96	32	510
Base	4/21/2014		13:25	18.1	15.63	8.78	71	775
Storm Event	4/29/2014		14:00	5.8	13.18	8.48	79	756
Storm Event	5/1/2014		14:15	6.0	13.15	8.40	>100	831
Storm Event	5/3/2014		15:20	12.7	15.38	9.02	>100	872
Storm Event	5/13/2014		13:30	10.4	11.40	8.48	28	780
Storm Event	5/16/2014		13:15	10.0	14.12	9.08	>100	896
Base	5/30/2014		13:10	24.3	8.39	8.38		900
Storm Event	6/2/2014		14:15	18.0	6.68	7.61	3	552
Storm Event	6/3/2014		12:45	17.6	7.46	7.76	11	721
Storm Event	6/4/2014		14:15	18.2	7.76	8.02	16	820
Base	6/12/2014		13:20	18.5	8.51	8.29	30	1014
Storm Event	6/15/2014		16:15	17.2	7.58	7.69	5	571
Storm Event	6/16/2014		14:10	17.9	7.20	7.89	12	683
Storm Event	6/18/2014		13:20	18.5	7.39	7.69	3	605
Storm Event	6/19/2014		12:50	20.5	6.51	7.56	2	357
Storm Event	6/20/2014		12:30	20.1	6.23	7.64	5	505
Storm Event	6/22/2014		16:15	21.2	6.57	7.78	14	722
Base	7/9/2014		13:55	21.9	9.51	8.57	88	977
Base	7/30/2014		14:35	24.2	11.30	8.49	85	864
Base	8/13/2014		14:30	24.6	9.58	8.40	83	830
Base	8/29/2014		13:20	22.1	12.60	8.70	29	715
Base	9/11/2014		10:40	14.2	14.13	8.92	32	703
Base	9/29/2014		13:10	19.5	7.83	8.12	>100	796
Base	10/15/2014		12:15	11.0	9.71	8.12	>100	814

FIELD DATA - Measurements taken on site, 2014

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

STORET CODE - S001-920

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Snowmelt	3/13/2014		13:10	0.8	11.40	7.91	28	441
Snowmelt	3/17/2014		12:00	0.3	11.91	7.53	29	412
Snowmelt	3/20/2014		13:35	0.7	12.35	7.82	27	582
Snowmelt	3/28/2014		11:30	0.5	12.79	8.16	40	815
Snowmelt	4/9/2014		13:20	9.5	10.95	8.21	31	843
Base	4/21/2014		13:00	16.4	12.88	8.62	46	978
Storm Event	4/29/2014		13:35	7.0	12.08	8.41	58	966
Storm Event	5/1/2014		13:45	6.6	11.90	8.34	48	1018
Storm Event	5/3/2014		15:00	12.3	11.81	8.31	46	1083
Storm Event	5/5/2014		12:45	12.5	12.65	8.26	50	1078
Storm Event	5/13/2014		13:10	12.0	10.51	8.19	30	891
Storm Event	5/15/2014		12:35	11.2	10.82	8.50	29	1061
Storm Event	5/16/2014		12:50	11.4	11.17	8.18	50	1058
Base	5/30/2014		12:45	24.2	10.47	8.47	76	1078
Storm Event	6/2/2014		13:50	21.5	7.20	8.08	12	818
Storm Event	6/3/2014		12:20	20.9	6.86	7.87	10	834
Storm Event	6/4/2014		13:50	21.0	7.26	8.23	9	955
Storm Event	6/6/2014		13:50	21.4	7.89	8.15	11	1064
Storm Event	6/12/2014		12:55	20.5	8.03	8.18	12	1129
Storm Event	6/15/2014		15:50	18.7	7.94	8.03	4	743
Storm Event	6/16/2014		13:50	19.2	6.89	8.06	4	775
Storm Event	6/17/2014		13:15	18.6	7.00	8.08	6	767
Storm Event	6/19/2014		12:20	21.3	6.23	7.74	6	659
Storm Event	6/20/2014		12:05	22.2	6.01	7.98	9	675
Storm Event	6/22/2014		15:55	24.2	6.42	8.08	13	862
Base	7/9/2014		13:30	23.2	8.72	8.45	28	1060
Base	7/30/2014		14:10	24.0	10.91	8.55	38	970
Base	8/13/2014		14:05	25.1	9.78	8.22	37	946
Base	8/29/2014		13:00	22.1	10.97	8.47	40	877
Base	9/11/2014		10:20	15.4	9	8.41	10	747
Base	9/16/2014		13:15	15.2	9.61	8.80	21	1025
Base	10/15/2014		11:40	10.4	11.40	9.23	>100	986