

**FIELD DATA - Measurements taken on site, 2011****PLC001 - Primary Lower Cottonwood River near New Ulm****STORET CODE - S001-918**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Base	1/27/2011		16:00	2.0	11.39	8.18	60+
Base	2/28/2011		12:15	1.4	9.86	8.2	60+
Snowmelt	3/18/2011		13:05	0.9	11.65	8.19	7.5
Snowmelt	3/20/2011		17:45	1.7	11.43	8.19	5.1
Snowmelt	3/21/2011		10:30	1.5	11.18	8.24	4.6
Snowmelt	3/22/2011		14:35	1.2	11.88	8.23	4.0
Snowmelt	3/25/2011		12:05	2.1	11.74	8.21	4.7
Snowmelt	3/30/2011		11:05	4.5	10.83	8.24	7.6
Snowmelt	4/8/2011		12:35	10.2	10.05	8.25	10.3
Base	4/29/2011		12:00	10.8	10.25	8.42	22.9
Base	5/12/2011		14:45	16.7	9.15	8.31	27.3
Storm Flow	5/23/2011		14:05	16.1	8.65	8.19	6.0
Storm Flow	5/25/2011		11:20	14.6	8.92	8.34	12.7
Base	6/9/2011		10:50	19.5	8.28	8.36	22.6
Base	6/14/2011		14:50	18.1	8.77		24.0
Storm Flow	6/15/2011		14:30	17.8	8.53	8.21	7.3
Storm Flow	6/17/2011		11:10	20.9	7.58	7.99	3.4
Storm Flow	6/22/2011		12:25	18.3	8.15	8.15	6.8
Storm Flow	6/24/2011		12:45	19.1	8.28	8.13	6.8
Base	7/12/2011		14:10	23.7	7.67	8.29	11.0
Base	7/29/2011		12:45	26.5	8.13	8.30	13.3
Base	8/9/2011		14:40	24.0	10.93	8.39	27.0
Base	8/22/2011		14:25	25.7	9.93	8.31	24.0
Base	9/8/2011		14:25	23.2	10.26	8.34	22.2
Base	9/29/2011		14:20	17.7	9.70	8.34	27.7

**FIELD DATA - Measurements taken on site, 2011****PLS005 - Primary Lower Sleepy Eye Creek near Cobden****STORET CODE - S001-919**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	3/18/2011		12:30	0.3	11.39	8.15	18.6
Snowmelt	3/20/2011		17:05	1.0	10.81	8.00	12.0
Snowmelt	3/22/2011		13:50	1.0	11.35	8.12	10.8
Snowmelt	3/25/2011		11:20	1.1	10.99	8.14	15.0
Snowmelt	3/30/2011		10:15	3.3	10.57	8.09	25.7
Base	4/8/2011		11:50	7.9	10.04	8.15	32.2
Base	4/29/2011		11:15	10.2	10.59	8.36	60+
Base	5/12/2011		13:55	13.7	9.55	8.32	41.6
Storm Flow	5/23/2011		13:20	13.7	8.62	7.97	12.9
Base	6/14/2011		13:50	16.5	8.84	8.32	44.0
Storm Flow	6/15/2011		13:50	15.3	8.16	7.83	12.8
Storm Flow	6/17/2011		10:30	16.7	8.33	7.99	25.7
Storm Flow	6/22/2011		11:45	16.8	7.51	7.91	6.8
Base	7/12/2011		13:30	20.8	7.82	8.11	28.0
Base	7/29/2011		11:45	24.2	8.43	8.26	32.1
Base	8/9/2011		13:40	22.7	10.99	8.45	37.5
Base	8/22/2011		13:30	23.7	9.19	8.29	53.0
Base	9/8/2011		13:25	20.0	10.49	8.35	51.0
Base	9/29/2011		13:25	15.3	10.05	8.39	48.0

**FIELD DATA - Measurements taken on site, 2011****PLC010 - Primary Lower Cottonwood River near Leavenworth****STORET CODE - S001-920**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	3/18/2011		12:20	0.9	11.14	8.24	10.2
Snowmelt	3/20/2011		16:55	1.0	11.32	8.24	10.8
Snowmelt	3/22/2011		13:35	1.3	11.60	8.28	9.4
Snowmelt	3/25/2011		11:00	1.5	11.66	8.29	10.6
Snowmelt	3/30/2011		9:50	3.8	10.77	8.32	14.3
Base	4/8/2011		11:35	9.9	9.62	8.29	18.2
Base	4/29/2011		11:00	11.4	9.95	8.39	33.4
Base	5/12/2011		13:40	16.7	8.83	8.34	42.8
Storm Flow	5/23/2011		13:05	16.3	8.23	8.15	12.8
Base	6/14/2011		13:35	17.6	8.39	8.34	25.0
Storm Flow	6/15/2011		13:35	17.1	7.54	7.91	2.4
Storm Flow	6/17/2011		10:10	20.1	6.89	7.88	7.3
Storm Flow	6/22/2011		11:35	18.5	7.52	8.09	7.7
Storm Flow	7/12/2011		13:15	23.9	7.14	8.19	14.9
Base	7/29/2011		11:30	25.3	7.17	8.21	17.9
Base	8/9/2011		13:25	22.9	9.91	8.39	34.5
Base	8/22/2011		13:15	23.7	11.02	8.38	34.0
Base	9/8/2011		13:10	21.1	11.95	8.36	20.6
Base	9/29/2011		13:05	16.6	11.57	8.43	18.0

**FIELD DATA - Measurements taken on site, 2011****PMC020 - Primary Middle Cottonwood River near Lamberton****STORET CODE - S002-247**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	3/18/2011		11:05	0.8	10.84	8.29	18.0
Snowmelt	3/20/2011		16:15	1.8	10.34	8.16	22.8
Snowmelt	3/22/2011		12:50	1.5	11.43	8.23	12.9
Snowmelt	3/25/2011		10:20	1.0	11.41	8.23	14.7
Snowmelt	3/30/2011		9:15	4.2	10.84	8.31	18.8
Base	4/8/2011		10:55	10.1	9.84	8.27	24.4
Base	4/29/2011		10:25	11.5	10.40	8.40	38.8
Base	5/12/2011		13:00	16.0	8.75	8.29	49.2
Storm Flow	5/23/2011		12:25	15.7	8.21	8.14	22.9
Storm Flow	6/14/2011		13:00	16.9	8.42	8.33	14.2
Storm Flow	6/15/2011		12:55	17.3	7.49	7.84	3.0
Storm Flow	6/17/2011		9:35	20.4	6.30	7.84	16.7
Storm Flow	6/22/2011		10:55	18.4	7.15	8.06	8.0
Base	7/12/2011		12:35	23.5	6.85	8.13	14.9
Base	7/29/2011		10:50	25.1	6.82	8.14	13.9
Base	8/9/2011		12:50	23.3	8.33	8.33	28.6
Base	8/22/2011		12:40	23.5	8.55	8.31	23.1
Base	9/8/2011		12:30	20.3	10.44	8.31	14.1
Base	9/29/2011		12:25	15.8	9.72	8.27	17.1

**FIELD DATA - Measurements taken on site, 2011****TUP - Tertiary Plum Creek near Walnut Grove****STORET CODE - S001-913**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	4/8/2011		10:20	7.8	10.05	8.26	13.1
Base	4/29/2011		10:00	9.7	9.82	8.34	36.5
Base	5/12/2011		12:35	13.6	9.01	8.31	60+
Storm Flow	5/23/2011		12:00	14.3	8.71	8.20	14.7
Storm Flow	6/14/2011		12:30	16.1	8.60		10.0
Storm Flow	6/15/2011		12:20	17.3	8.00	7.93	2.6
Storm Flow	6/17/2011		9:10	18.2	7.57	8.01	9.3
Base	7/12/2011		12:10	21.3	7.70	8.23	28.2
Base	7/29/2011		10:25	22.5	7.68	8.24	39.9
Base	8/9/2011		12:20	21.3	8.33	8.33	60+
Base	8/22/2011		12:10	21.3	9.17	8.26	60+
Base	9/8/2011		12:05	18.8	10.98	8.29	60+
Base	9/29/2011		12:00	14.5	8.64	8.21	39.6