

**FIELD DATA - Measurements taken on site, 2012**

RR1 - Primary Lower Redwood River at Redwood CR17 near Redwood Falls

Non-impacted stream/Western Corn Belt Plains

**STORET CODE - S001-679****2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Base	10/27/2011		12:35	7.9	12.86	8.68	42	
Base	11/28/2011		12:30	1.8	16.25	8.80	60+	
Base	12/12/2011		12:35	0.5	18.73	8.36	60+	
Base	1/26/2012		10:50	1.7	8.37	8.45	60+	1271
Base	2/27/2012		10:00	0.3	13.52	8.22	N/A	1105
Snow Melt	3/16/2012		11:15	8.5	10.87	8.56	N/A	822
Base	4/11/2012		10:05	8.1	15.53	8.95	17	1211
Base	4/24/2012		9:20	13.0	10.96	8.71	26	1604
Storm Event	5/7/2012		9:20	14.6	8.08	8.01	4	553
Storm Event	5/8/2012		9:25	14.0	8.72	8.10	4	622
Storm Event	5/11/2012		11:55	17.8	7.85	7.93	10	696
Storm Event	5/18/2012		11:05	20.1	8.65	8.08	8	1093
Storm Event	5/29/2012		9:20	17.9	8.44	8.17	6	876
Storm Event	6/8/2012		11:00	20.8	8.07	8.15	4	774
Base	6/13/2012		9:35	18.5	9.08	8.26	13	1174
Base	6/27/2012		9:25	23.5	10.01	8.47	11	1231
Base	7/12/2012		10:00	25.6	8.00	8.22	17	1312
Base	7/31/2012		9:40	25.3	7.14	8.47	14	1581
Base	8/21/2012		9:30	20.3	9.80	8.63	14	1456
Base	8/29/2012		9:40	23.9	7.01	8.41	20	1848
Base	9/13/2012		9:30	16.0	6.97	8.28	17	2094
Base	9/20/2012		9:35	14.3	9.00	8.56	18	2147
Base	10/23/2012		12:10	12.6	11.56	8.75	15	2328
Base	11/15/2012		10:20	3.8	13.17	8.36	67	1958
Base	12/27/2012		11:20	0.3	16.43	8.16	65+	3002

**FIELD DATA - Measurements taken on site, 2012**

CC3 - Clear Creek in Seaforth - Non-impacted stream/Western Corn Belt Plains

**STORET CODE - S002-311 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Base	4/11/2012		10:35	6.5	9.66	8.58	66	700
Base	4/24/2012		9:50	13.6	8.35	8.45	46	1078
Storm Event	5/7/2012		9:50	13.0	8.28	7.94	6	645
Storm Event	5/8/2012		9:55	12.1	9.38	8.07	7	905
Storm Event	5/29/2012		9:55	14.5	8.85	8.10	12	1090
Base	6/13/2012		10:05	16.7	9.27	8.28	42	1231
Base	6/27/2012		10:00	22.0	8.03	8.35	70	1211
Base	7/12/2012		10:35	23.8	6.57	8.21	43	1074
Base	7/31/2012		10:05	24.0	6.04	8.33	21	1013
Base	8/21/2012		9:55	18.6	7.07	8.30	19	1029
Base	8/29/2012		10:05	22.6	6.16	8.20	26	1003
Base	9/13/2012		10:00	15.2	5.45	8.21	29	1026
Base	9/20/2012		10:00	13.3	8.09	8.59	33	963

**FIELD DATA - Measurements taken on site, 2012**

TC4A - Three Mile Creek near Green Valley - Non-impacted stream/Western Corn Belt Plains

**STORET CODE - S002-31 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Base	4/11/2012		11:20	7.1	12.00	8.48	25	923
Base	4/24/2012		10:40	13.9	9.96	8.29	12	1337
Storm Event	5/7/2012		10:40	14.5	8.09	7.96	5	909
Storm Event	5/8/2012		10:40	13.3	8.94	8.07	7	1233
Storm Event	5/29/2012		10:45	16.7	8.78	8.12	8	1517
Base	6/13/2012		10:55	17.5	8.80	8.30	15	1563
Base	6/27/2012		10:50	26.0	10.02	8.30	24	1472
Base	7/12/2012		11:20	24.5	6.69	8.09	15	1418
Base	7/31/2012		10:55	26.2	7.27	8.20	10	1440
Base	8/21/2012		10:45	21.8	8.00	8.22	12	1432
Base	8/29/2012		10:50	25.0	7.06	8.21	17	1420
Base	9/13/2012		10:50	16.7	7.56	8.10	24	1532
Base	9/20/2012		10:50	14.1	8.93	8.41	24	1560

## FIELD DATA - Measurements taken on site, 2012

RRUS - Redwood River at Russell - Non-impacted stream/Western Corn Belt Plains

STORET CODE - S000-696 **2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Base	4/11/2012		12:10	8.6	11.71	8.39	61	857
Base	4/24/2012		11:25	14.9	11.68	8.39	46	1131
Base	5/2/2012		12:20	20	9.81	8.25	42	1096
Storm Event	5/7/2012		11:50	14.7	8.72	8.03	4	435
Storm Event	5/8/2012		11:20	13.6	8.95	8.13	5	478
Storm Event	5/29/2012		11:30	16.7	9.03	8.28	12	749
Base	6/13/2012		11:55	18	9.44	8.41	35	878
Base	6/27/2012		11:35	25.1	8.37	8.37	20	881
Base	7/12/2012		12:05	22.6	7.63	8.16	81	984
Base	7/31/2012		11:40	23.5	8.64	8.19	39	1326
Base	8/21/2012		11:40	18.8	9.5	8.18	38	1461
Base	8/29/2012		12:00	23.3	8.74	8.15	45	1469
Base	9/13/2012		11:35	15.9	9.4	8.10	78	1514
Base	9/20/2012		11:35	13.7	9.86	8.29	95	1676