

Research conducted by Dr. John Downing, Iowa State University



Report Date: 03/20/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.7	2.8	2.7	2.7
Dissolved Oxygen (mg/L)	-	13.62	13.55	13.54	13.53	13.51	13.52	13.49	13.48	13.48	13.49	13.49	13.46	13.45	13.44	13.44
Conductivity (us/cm)	-	394	394	394	395	394	394	394	394	394	394	394	394	394	394	394
Turbidity (NTU)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll a (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	13	14	12	14	14	19	24	20	19	26	18	16	17	18	86
SRP as P (µg/L)	-	2.2	2.6	1.8	2.4	8.6	2.4	4.7	4.8	6.6	11.6	10.9	-	0.9	1.3	1.8
Total Nitrogen as N (mg/L)	-	1.7	1.69	1.64	1.65	1.69	1.68	1.74	1.73	1.72	1.74	1.75	1.74	1.6	1.63	1.75
Ammonia Nitrogen as N (µg/L)	-	13639	405	386	398	362	401	386	402	375	394	376	375	366	391	388

volatile suspended Solids (mg/L)	-	1	2	1	2	2	2	2	2	2	2	1	2	2	1	2	2
total suspended Solids (mg/L)	-	2	3	2	3	4	3	3	4	3	3	3	2	3	2	3	3

Report Date: 04/23/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	Surch	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	11.6	11.7	11.7	11.6	11.5	11.5	11.5	11.5	8.2	7.1	6.5	6.2	6.1	6	5.9	5.8
Dissolved Oxygen (mg/L)	-	12.57	12.62	12.58	12.72	12.74	12.8	12.58	12.69	12.46	12.43	12.53	12.12	11.94	11.73	11.3	11.19
Conductivity (us/cm)	-	427	4	428	428	428	428	428	428	437	434	434	435	435	436	436	436
Turbidity (NTU)	-	5	4	5	4	6	5	4	5	4	2	2	2	2	1	2	2
Chlorophyll a (µg/L)	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	17	18	17	19	19	20	20	19	19	15	15	17	17	16	17	17
SRP as P (µg/L)	-	5.2	7.1	4.5	4.1	6.3	4.4	4.4	7.2	6.3	5.9	4.2	3.6	6.1	3.7	0.7	3.9
Total Nitrogen as N (mg/L)	-	1.49	1.46	1.48	1.35	1.5	1.52	1.47	1.45	1.53	1.51	1.48	1.57	1.45	1.48	1.54	1.54
ammonia nitrogen (mg/L)	-	347	337	337	358	345	369	360	359	402	397	394	379	393	1749	472	476
nitrate nitrogen (mg/L)	-	0.96	0.97	0.96	0.94	0.95	0.94	0.98	0.97	0.95	0.95	0.94	0.91	0.91	0.91	0.9	0.92
NO ₂ as N (mg/L)	-	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.1	8.1	8	7.9	7.9	7.8	7.8	7.8
pH	-	150	150	150	150	150	150	149	150	151	152	152	151	151	153	152	152
Alkalinity as CaCO ₃ (mg/L)	-	4.2	4.07	4.06	4.22	3.99	3.89	4.18	4.05	4.65	3.28	3.38	3.57	3.9	3.44	3.64	3.52
Silica as Si (mg/L)	-	2	2	1	2	1	1	2	1	1	1	1	1	1	1	0	0
inorganic suspended Solids (mg/L)	-	2	2	2	1	2	2	2	2	1	1	1	1	1	1	1	1
volatile suspended Solids (mg/L)	-	2	2	2	1	2	2	2	2	1	1	1	1	1	1	1	1
total suspended Solids (mg/L)	-	4	4	4	3	3	3	4	3	3	1	2	2	2	2	1	2

Report Date: 05/07/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	Surch	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	14.3	14.2	14.1	13.9	13.3	12.5	11.5	10.8	10.5	9.8	8.9	-	-	-
Dissolved Oxygen (mg/L)	-	11.81	11.84	11.87	11.91	12.01	12.16	11.9	11.38	10.98	10.17	9.61	-	-	-
Conductivity (us/cm)	-	444	444	444	445	444	443	445	448	454	449	458	-	-	-
Turbidity (NTU)	-	2	4	3	2	1	2	-	0	1	2	-	-	-	-
Chlorophyll a (µg/L)	56.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	19	5	20	21	19	21	26	18	20	-	-	-	-	-
SRP as P (µg/L)	-	4.6	5.6	3.7	5.5	8.8	5.4	5.7	7.9	4.9	-	-	-	-	-
Total Nitrogen as N (mg/L)	-	1.88	1.86	1.89	1.89	1.86	1.61	1.84	1.78	1.82	-	-	-	-	-
Ammonia Nitrogen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NH ₄ ⁺ as N (µg/L)	-	200	240	270	362	439	390	299	435	470	-	-	-	-	-
Nitrate Nitrate (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NO ₂ as N (mg/L)	-	1.2	1.22	1.23	1.22	1.2	1.2	1.23	1.21	1.18	-	-	-	-	-
pH	-	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.2	8.1	8	7.8	-	-	-
Alkalinity as CaCO ₃ (mg/L)	-	150	151	151	151	150	150	151	151	151	-	-	-	-	-
Silica as Si (mg/L)	-	5.03	5.07	4.43	4.21	3.91	3.73	3.21	3.03	3.49	-	-	-	-	-
Inorganic Suspended Solids (mg/L)	-	2	1	3	2	4	3	1	2	2	-	-	-	-	-
Organic Suspended Solids (mg/L)	-	1	2	1	1	1	1	2	1	2	-	-	-	-	-
Total Suspended Solids (mg/L)	-	2	4	3	3	4	4	3	3	4	-	-	-	-	-

Report Date: 05/21/2002
Ada Hayden (South), Story County

Summary Data Table

Parameter	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
South																
Mixed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	15	15	15	14.9	14.9	18.9	14.3	13.2	12.8	12.6	12.2	11.8	-	-	-	-
Dissolved Oxygen (mg/L)	13.41	13.52	13.53	13.59	13.57	13.53	12.75	11.53	9.82	9.58	9.02	8.53	-	-	-	-
Conductivity (us/cm)	236	451	451	450	451	451	460	470	461	463	465	462	-	-	-	-
Turbidity (NTU)	3	3	3	3	3	3	4	2	1	2	4	5	-	-	-	-
Chlorophyll a (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	28	26	33	35	30	34	37	22	20	21	21	22	-	-	-	-
SRP as P (µg/L)	5.5	11.2	5.7	6.6	5.5	5.6	5.8	4.2	3.6	4.4	10.4	16.2	-	-	-	-
Total Nitrogen as N (mg/L)	2.62	2.62	2.66	2.65	2.72	2.76	2.71	3.35	3.05	2.96	2.85	2.78	-	-	-	-
Nitrate Nitrogen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NH ₄ ⁺ as N (µg/L)	226	215	246	265	190	254	245	260	261	346	390	411	-	-	-	-
NO ₂ as N (mg/L)	2.05	2.06	2.08	2.08	2.07	2.07	2.09	2.78	2.44	2.38	2.29	2.21	-	-	-	-
pH	8.8	8.8	8.8	8.8	8.8	8.8	8.7	8.3	8.2	8.2	8	8	-	-	-	-
Alkalinity as CaCO ₃ (mg/L)	150	151	151	151	152	151	149	154	153	151	154	154	-	-	-	-
Silica as Si (mg/L)	4.22	3.8	4.46	4.77	4.74	4.14	4.32	5.38	6.08	4.69	5.55	6.49	-	-	-	-
Inorganic Suspended Solids (mg/L)	5	1	1	1	2	-	2	2	-	1	-	2	-	-	-	-
Organic Suspended Solids (mg/L)	3	5	3	6	5	5	4	3	3	3	-	1	-	-	-	-
Total Suspended Solids (mg/L)	8	6	4	7	7	5	6	5	3	3	-	3	-	-	-	-

**Report Date: 06/04/2002
Ada Hayden (South), Story County
Summary Data Table**

Parameter	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
South																
Mixed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	20.1	21.4	21.4	21.4	19	16.9	15.7	14.4	13.2	12.7	11.9	11.3	10.5	9.7	9.3	-

Dissolved Oxygen (mg/L)	-	11.09	10.27	10.24	10.28	12.19	12.35	11.17	8.97	7.44	6.71	6.28	5.65	4.62	2.87	2.85	-
Conductivity (us/cm)	-	441	430	431	430	425	433	441	447	451	452	447	446	447	446	445	-
Turbidity (NTU)	-	0	6	5	6	4	4	3	2	3	3	2	3	3	4	3	-
Chlorophyll a (µg/L)	79.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	21	24	23	22	18	19	16	15	15	14	12	13	20	26	30	-
SRP as P (µg/L)	-	-	-	-	-	-	-	-	-	-	-	0.9	1.7	4	7.6	15.3	-
Total Nitrogen as N (mg/L)	-	3.69	2.99	3.15	3.23	3.09	2.83	2.68	2.52	2.66	2.66	2.48	2.51	2.21	2.06	1.91	-
Nitrate Nitrogen (NO ₃ ⁻) as N (µg/L)	-	206	201	215	237	223	221	301	274	304	389	402	421	599	701	565	-
Nitrite Nitrogen (NO ₂ ⁻) as N (mg/L)	-	2.52	2.52	2.55	2.55	2.48	2.29	2.26	2.25	2.06	1.92	1.9	1.9	1.58	1.36	1.11	-
pH	-	8.8	8.8	8.8	8.8	8.7	7.7	8.6	8.4	8	8	7.9	7.9	7.8	7.7	7.7	-
Alkalinity as CaCO ₃ (mg/L)	-	142	138	140	146	142	145	154	156	157	154	160	157	159	160	161	-
Silica as Si (mg/L)	-	7.07	7.71	9.62	-	-	3.39	3.93	3.86	4.49	5.91	5.47	4.52	5.1	6.12	6.64	-
Inorganic Suspended Solids (mg/L)	-	1	2	4	2	1	1	1	1	0	1	0	0	1	1	1	-
Volatle Suspended Solids (mg/L)	-	2	2	2	2	1	2	1	1	2	1	1	0	0	1	1	-
Total Suspended Solids (mg/L)	-	3	4	6	4	2	3	2	2	2	2	1	1	1	1	2	-

Report Date: 06/18/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	South	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	22.5	22.5	22.5	22.4	22.4	22.4	17.4	14.5	13.2	12.5	12	11.3	10.6	9.9	-	-
Dissolved Oxygen (mg/L)	-	15.71	15.86	15.85	15.9	15.89	15.8	13.85	9.13	7.46	6.16	5.76	4.81	3.41	1.92	-	-
Conductivity (us/cm)	-	360	360	360	360	360	360	383	389	394	393	389	388	388	388	-	-
Turbidity (NTU)	-	-	-	-	-	-	53	118	11	13	11	10	10	11	15	-	-
Chlorophyll a (µg/L)	41.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	21	23	22	21	23	23	26	21	16	19	21	25	24	28	-	-

SRP as P (µg/L)	-	1.3	0.9	1.4	1.1	0.9	1	1.2	0.9	2.2	1.7	2.3	2.9	3.3	3.6	-	-
Total Nitrogen as N (mg/L)	-	3.17	3.37	3.25	3.16	3.1	3.19	3.59	2.53	2.39	2.36	2.34	2.37	2.22	2.13	-	-
Ammonia Nitrogen (NH ₄ ⁺) as N (µg/L)	-	240	206	171	238	173	164	231	348	283	414	473	642	760	852	-	-
Nitrate Nitrite (NO ₃ ⁻ + NO ₂ ⁻) as N (mg/L)	-	3.07	3.01	2.99	3.03	3.06	3.02	3.16	2.27	2	1.92	1.79	1.65	1.45	1.19	-	-
pH	-	8.7	8.7	8.7	8.7	8.7	8.7	8.5	8.1	7.9	7.8	7.7	7.6	7.5	7.5	-	-
Alkalinity as CaCO ₃ (mg/L)	-	135	135	136	137	135	135	146	155	161	163	170	160	162	162	-	-
Silica as Si (mg/L)	-	6.37	6.11	4.8	4.96	5.71	5.68	6.29	6.34	4.92	6.66	9.64	13.86	22.05	18.66	-	-
Inorganic Suspended Solids (mg/L)	-	-	-	-	2	-	4	3	-	1	-	4	3	2	3	-	-
Organic Suspended Solids (mg/L)	-	4	8	4	2	5	1	2	4	4	8	3	4	5	5	-	-
Total Suspended Solids (mg/L)	-	4	6	3	3	4	5	5	4	5	5	6	7	7	8	-	-

Report Date: 07/10/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	South	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	28.9	28.9	28.7	28.4	26.9	25.8	20.6	16.9	15.2	14.3	12.4	11.4	10.6	10.2	9.6	9.3
Dissolved Oxygen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (µs/cm)	-	356	356	357	357	37	391	435	454	458	460	457	455	454	455	455	456
Turbidity (NTU)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll a (µg/L)	86.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	39	38	40	34	20	34	25	18	16	29	24	25	27	40	51	59
SRP as P (µg/L)	-	2.6	2.3	2	2.2	-	2.1	0.1	-	-	3.6	2.3	1.7	9.7	2.9	11.5	17.5
Total Nitrogen as N (mg/L)	-	2.95	2.97	2.97	2.98	2.9	2.95	3.11	2.6	2.47	2.27	2.34	1.93	1.68	1.37	1.38	1.61
Ammonia Nitrogen (NH ₄ ⁺) as N (µg/L)	-	100	47	132	68	67	203	194	383	362	409	429	546	778	1092	1314	1569
Nitrate Nitrite (NO ₃ ⁻ + NO ₂ ⁻) as N (mg/L)	-	2.53	2.49	2.5	2.5	2.54	2.49	2.62	2.18	1.94	1.77	1.76	1.19	0.74	0.28	0.12	0.15
pH	-	9	9.1	9.1	9.1	8.8	8.8	8.7	8.3	8.1	7.8	7.8	7.7	7.7	7.7	7.6	7.6

Alkalinity as CaCO ₃ (mg/L)	-	101	102	101	102	101	110	129	158	162	166	165	168	169	171	175	177
Silica as Si (mg/L)	-	1.97	1.79	1.62	1.61	1.7	2.71	1.19	1.72	2.27	2.67	2.36	3.89	5.91	6.88	6.3	5.37
Inorganic Suspended Solids (mg/L)	-	6	5	5	3	2	11	3	1	-	2	2	3	3	2	3	3
Volatle Suspended Solids (mg/L)	-	4	4	4	3	3	6	3	3	2	2	2	2	2	2	2	2
Total Suspended Solids (mg/L)	-	10	9	9	6	5	16	6	4	2	4	4	4	5	4	4	6

Report Date: 07/30/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	South	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	28	28.1	28.1	27.9	27.8	25.8	21.8	18.7	17.4	15.1	12.2	11.2	10.7	10.2	9.8	9.5
Dissolved Oxygen (mg/L)	-	6.78	6.8	6.76	6.74	6.54	4.36	0.96	0.42	0.33	0.23	0.19	0.22	0.2	0.19	-	-
Conductivity (us/cm)	-	347	347	347	346	349	379	430	459	460	466	462	458	459	460	461	463
Turbidity (NTU)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll a (µg/L)	54.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	18	21	19	22	22	25	-	41	21	26	24	26	36	43	68	-
SRP as P (µg/L)	-	-	-	-	-	-	-	-	0.2	-	0.2	-	0.2	4.7	13.2	35.7	-
Total Nitrogen as N (mg/L)	-	2.48	2.54	2.28	2.63	2.66	2.67	2.86	2.67	2.1	1.95	1.53	1.42	1.4	1.52	1.64	-
Ammonia Nitrogen (NH ₄ ⁺) as N (µg/L)	-	97	75	77	137	96	184	307	221	311	458	806	1045	1261	1350	1792	-
Nitrite Nitrite (NO ₂ -) as N (mg/L)	-	2.15	2.14	2.13	2.21	2.18	2.25	2.27	1.89	1.6	1.38	0.73	0.35	0.13	0.25	0.08	-
pH	-	9	9.1	9.2	9.2	9.2	8.8	8.4	8.2	8	7.8	7.6	7.5	7.4	7.6	5.1	3.7
Alkalinity as CaCO ₃ (mg/L)	-	94	94	94	95	95	98	116	138	144	165	169	171	171	168	171	-
Silica as Si (mg/L)	-	2.54	2.38	2.24	2.28	2.44	2.22	2.21	1.54	2.24	4.26	6.07	6.91	7.3	6.48	7.07	-
Inorganic Suspended Solids (mg/L)	-	1	0	2	1	1	2	1	2	4	2	1	2	1	3	3	-
Volatle Suspended Solids (mg/L)	-	2	3	2	2	3	3	1	6	2	1	2	6	3	5	7	-

Report Date: 09/30/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	Surch	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	19.6	19.7	19.5	19.4	19.2	18.7	18.4	17.4	16.3	13.3	11	17.2	10	-
Dissolved Oxygen (mg/L)	-	10.81	10.59	10.48	10.37	10.07	9.35	7.58	4.39	0.37	0.34	0.32	0.31	0.3	-
Conductivity (us/cm)	-	395	396	396	396	396	399	403	418	445	498	504	511	511	-
Turbidity (NTU)	-	16	17	17	17	17	17	17	17	19	23	21	20	21	-
Chlorophyll a (µg/L)	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	23	-	22	-	20	-	18	-	32	-	32	-	150	-
SRP as P (µg/L)	-	-	-	1.7	-	-	-	-	-	0.4	-	0	-	118.3	-
Total Nitrogen as N (mg/L)	-	1.56	-	1.56	-	1.55	-	1.5	-	1.61	-	1.65	-	2.37	-
Ammonium Nitrogen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NH ₄ ⁺ as N (µg/L)	-	105	-	90	-	91	-	178	-	572	-	1845	-	3116	-
Nitrate Nitrogen (mg/L)	-	1.15	-	1.15	-	1.16	-	1.13	-	0.7	-	0.07	-	0.05	-
NO ₂ as N (mg/L)	-	8.7	8.7	8.7	8.7	8.7	8.5	8.4	7.9	7.5	7.4	7.3	7.2	7.2	-
pH	8.6	8.7	8.7	8.7	8.7	8.7	8.5	8.4	7.9	7.5	7.4	7.3	7.2	7.2	-
Alkalinity as CaCO ₃ (mg/L)	121	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silica as Si (mg/L)	-	3.13	-	3.21	-	3.17	-	2.24	-	3.95	-	7.36	-	10.71	-
Inorganic Suspended Solids (mg/L)	-	2	-	1	-	1	-	1	-	1	-	4	-	3	-
Organic Suspended Solids (mg/L)	-	2	-	2	-	2	-	1	-	2	-	3	-	4	-
Total Suspended Solids (mg/L)	-	4	-	3	-	3	-	2	-	4	-	7	-	7	-

Report Date: 10/28/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	Surch	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	11	11	11	11	11	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (us/cm)	-	407	407	407	407	407	407	409	409	408	-	409	-	415	-	414	418
Turbidity (NTU)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll a (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(µg/L)	-	26	27	28	-	26	-	29	-	27	-	27	-	26	-	28	34
SRP as P (µg/L)	-	6.7	7.1	7.4	-	8	-	6.8	-	7.3	-	6.8	-	7.5	-	8.8	12.2
Total Nitrogen as N (mg/L)	-	1.56	1.55	1.56	-	1.6	-	1.58	-	1.6	-	1.63	-	1.57	-	1.64	1.63
Ammonia Nitrogen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NH ₄ ⁺ as N (µg/L)	-	654	659	644	-	656	-	654	-	657	-	651	-	662	-	686	768
nitrate + nitrite (NO ₃ + NO ₂) as N (mg/L)	-	0.77	0.78	0.79	-	0.83	-	0.84	-	0.81	-	0.79	-	0.79	-	0.79	0.78
pH	-	8	8	8	8	8	8	7.6	-	7.8	-	7.9	-	7.9	-	7.9	7.8
Alkalinity as CaCO ₃ (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silica as Si (mg/L)	-	4.91	4.89	4.89	-	4.91	-	4.94	-	4.8	-	4.95	-	4.74	-	4.87	5.41
Inorganic Suspended Solids (mg/L)	-	2	2	3	-	3	-	3	-	4	-	3	-	2	-	3	4
Organic Suspended Solids (mg/L)	-	2	1	2	-	2	-	2	-	2	-	2	-	3	-	2	2
Total Suspended Solids (mg/L)	-	4	3	5	-	5	-	5	-	5	-	5	-	5	-	5	6

Report Date: 11/18/2002
Ada Hayden (South), Story County
 Summary Data Table

Parameter	Surch	S Surf	S 0.5	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 15
Mixed Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secchi Disk Depth (m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (°C)	-	7	7	7	7	7	7	9.9	6.9	6.9	7	6.9	6.9	6.9	6.9	6.9	6.9
Dissolved Oxygen (mg/L)	-	10.55	10.16	10.07	10.02	9.95	9.9	9.88	9.87	9.85	9.86	9.86	9.87	9.87	9.86	9.86	9.85

