Water-Data Report 2010

471249097575100 LAKE ASHTABULA AT SIBLEY CROSSING BRIDGE 9T

Devils Lake-Sheyenne Basin
Middle Sheyenne Subbasin

LOCATION.--Lat 47°12′49″, long 97°57′51″ referenced to North American Datum of 1983, Barnes County, ND, Hydrologic Unit 09020203.

WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conduc-tance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)
10-19-2009	1642	728	8.4	11.3	96	8.1	--	--	1,430	6.1
10-19-2009	1643	--	--	11.3	--	8.1	8.3	1,490	1,430	6.2
10-19-2009	1644	--	--	11.3	--	8.1	--	--	1,430	6.2
10-19-2009	1645	--	--	11.2	--	8.1	--	--	1,430	6.3
10-19-2009	1646	--	--	11.3	--	8.1	--	--	1,430	6.2
10-19-2009	1647	--	--	11.2	--	8.1	--	--	1,330	6.2
10-19-2009	1648	--	--	11.2	--	8.1	8.3	1,480	1,440	6.1
10-19-2009	1649	--	--	11.2	--	8.1	--	--	1,430	6.1
02-26-2010	1115	738	--	3.0	22	7.0	7.7	1,290	1,230	.1
02-26-2010	1116	--	--	3.0	--	7.0	--	--	1,230	.0
02-26-2010	1117	--	--	3.0	--	6.9	--	--	1,250	.1
02-26-2010	1118	--	--	1.5	--	7.0	--	--	1,690	2.5
02-26-2010	1119	--	--	1.1	--	7.1	8.0	1,740	1,710	3.0

471249097575100 LAKE ASHTABULA AT SIBLEY CROSSING BRIDGE 9T—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Elevation above NGVD 1929, ft (72020)	Sampling depth, m (00098)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equiva-lents of major cations (00932)
10-19-2009	**1642**	1,265.29	.00	--	--	--	--	--	--	--
10-19-2009	**1643**	--	1.0	924	474	83.3	64.6	22.6	3.4	44
10-19-2009	**1644**	--	2.0	--	--	--	--	--	--	--
10-19-2009	**1645**	--	3.0	--	--	--	--	--	--	--
10-19-2009	**1646**	--	4.0	--	--	--	--	--	--	--
10-19-2009	**1647**	--	5.0	--	--	--	--	--	--	--
10-19-2009	**1648**	--	6.0	918	487	85.7	66.4	23.3	3.5	44
10-19-2009	**1649**	--	7.0	--	--	--	--	--	--	--
02-26-2010	**1115**	1,266.19	1.0	800	496	108	54.9	8.72	1.9	30
02-26-2010	**1116**	--	2.0	--	--	--	--	--	--	--
02-26-2010	**1117**	--	3.0	--	--	--	--	--	--	--
02-26-2010	**1118**	--	4.0	--	--	--	--	--	--	--
02-26-2010	**1119**	--	5.0	1,080	635	119	82.1	17.8	2.8	35

471249097575100 LAKE ASHTABULA AT SIBLEY CROSSING BRIDGE 9T—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO3 (90410)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
10-19-2009	**1642**	--	--	--	--	--	--	--	--	--
10-19-2009	**1643**	169	323	62.6	.19	24.3	384	.99	< .030	.124
10-19-2009	**1644**	--	--	--	--	--	--	--	--	--
10-19-2009	**1645**	--	--	--	--	--	--	--	--	--
10-19-2009	**1646**	--	--	--	--	--	--	--	--	--
10-19-2009	**1647**	--	--	--	--	--	--	--	--	--
10-19-2009	**1648**	175	323	62.7	.20	25.0	384	.98	< .030	.129
10-19-2009	**1649**	--	--	--	--	--	--	--	--	--
02-26-2010	**1115**	98.0	436	23.6	.17	25.3	237	.82	.343	.594
02-26-2010	**1116**	--	--	--	--	--	--	--	--	--
02-26-2010	**1117**	--	--	--	--	--	--	--	--	--
02-26-2010	**1118**	--	--	--	--	--	--	--	--	--
02-26-2010	**1119**	161	480	50.3	.29	25.6	400	1.4	.476	.124

471249097575100 LAKE ASHTABULA AT SIBLEY CROSSING BRIDGE 9T—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Organic nitrogen, water, filtered, mg/L (00607)	Phos-phorus, water, filtered, mg/L as P (00666)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, filtered, mg/L (00602)	Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)
10-19-2009	1642	--	--	--	--	--	--	--	--	--
10-19-2009	1643	< .99	.137	1.11	1.1	< 50	75	< 5.00	< 5.00	< 5.0
10-19-2009	1644	--	--	--	--	--	--	--	--	--
10-19-2009	1645	--	--	--	--	--	--	--	--	--
10-19-2009	1646	--	--	--	--	--	--	--	--	--
10-19-2009	1647	--	--	--	--	--	--	--	--	--
10-19-2009	1648	< .98	.135	1.11	1.1	< 50	76	< 5.00	< 5.00	< 5.0
10-19-2009	1649	--	--	--	--	--	--	--	--	--
02-26-2010	1115	.47	.123	1.41	1.4	< 50	75	< 5.00	< 5.00	< 5.0
02-26-2010	1116	--	--	--	--	--	--	--	--	--
02-26-2010	1117	--	--	--	--	--	--	--	--	--
02-26-2010	1118	--	--	--	--	--	--	--	--	--
02-26-2010	1119	.93	.180	1.53	1.5	< 50	98	< 5.00	< 5.00	< 5.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 6

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Date	Sample start time	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Manga-nese, water, filtered, µg/L (01056)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)	Thallium, water, filtered, µg/L (01057)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)
10-19-2009	1642	--	--	--	--	--	--	--	--	--
10-19-2009	1643	< 5.0	< 50	< 5.00	87.0	5.2	< 5.00	< 5.00	11.5	< 5.00
10-19-2009	1644	--	--	--	--	--	--	--	--	--
10-19-2009	1645	--	--	--	--	--	--	--	--	--
10-19-2009	1646	--	--	--	--	--	--	--	--	--
10-19-2009	1647	--	--	--	--	--	--	--	--	--
10-19-2009	1648	< 5.0	< 50	< 5.00	84.0	5.1	< 5.00	< 5.00	11.3	< 5.00
10-19-2009	1649	--	--	--	--	--	--	--	--	--
02-26-2010	1115	< 5.0	< 50	< 5.00	991	< 5.0	< 5.00	< 5.00	6.9	< 5.00
02-26-2010	1116	--	--	--	--	--	--	--	--	--
02-26-2010	1117	--	--	--	--	--	--	--	--	--
02-26-2010	1118	--	--	--	--	--	--	--	--	--
02-26-2010	1119	< 5.0	< 50	< 5.00	2,080	< 5.0	< 5.00	< 5.00	7.9	< 5.00

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 6

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Date	Sample start time	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)
10-19-2009	1642	--	--	--
10-19-2009	1643	7.1	236	< 5.0
10-19-2009	1644	--	--	--
10-19-2009	1645	--	--	--
10-19-2009	1646	--	--	--
10-19-2009	1647	--	--	--
10-19-2009	1648	6.0	237	< 5.0
10-19-2009	1649	--	--	--
02-26-2010	1115	< 5.0	181	< 5.0
02-26-2010	1116	--	--	--
02-26-2010	1117	--	--	--
02-26-2010	1118	--	--	--
02-26-2010	1119	< 5.0	204	< 5.0