Water-Data Report 2010

470926098003700 LAKE ASHTABULA SITE 5L1

Devils Lake-Sheyenne Basin
Middle Sheyenne Subbasin

LOCATION.--Lat 47°09′26″, long 98°00′37″ 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)	Temperature, 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 conductance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)
10-20-2009	1030	730	4.4	11.2	94	9.0	--	--	1,450	5.7
10-20-2009	1031	--	--	11.2	--	9.0	8.6	1,470	1,450	5.7
10-20-2009	1032	--	--	11.2	--	9.0	--	--	1,440	5.7
10-20-2009	1033	--	--	11.1	--	9.0	--	--	1,450	5.7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

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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)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equivalents of major cations (00932)
10-20-2009	1030	1,265.27	.00	--	--	--	--	--	--	--
10-20-2009	1031	--	1.0	911	454	73.1	66.0	20.9	3.8	47
10-20-2009	1032	--	2.0	--	--	--	--	--	--	--
10-20-2009	1033	--	3.3	--	--	--	--	--	--	--

470926098003700 LAKE ASHTABULA SITE 5L1—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)
10-20-2009	1030	--	--	--	--	--	--	--	--	--
10-20-2009	1031	185	333	56.5	.19	23.9	372	1.3	< .030	< .030
10-20-2009	1032	--	--	--	--	--	--	--	--	--
10-20-2009	1033	--	--	--	--	--	--	--	--	--

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)
10-20-2009	1030	--	--	--	--	--	--	--	--	--
10-20-2009	1031	< 1.3	.133	1.37	< 1.4	< 50	69	< 5.00	< 5.00	< 5.0
10-20-2009	1032	--	--	--	--	--	--	--	--	--
10-20-2009	1033	--	--	--	--	--	--	--	--	--

470926098003700 LAKE ASHTABULA SITE 5L1—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 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	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)
10-20-2009	**1030**	--	--	--	--	--	--	--	--	--
10-20-2009	**1031**	< 5.0	< 50	< 5.00	173	< 5.0	< 5.00	< 5.00	10.2	< 5.00
10-20-2009	**1032**	--	--	--	--	--	--	--	--	--
10-20-2009	**1033**	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
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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)
10-20-2009	**1030**	--	--	--
10-20-2009	**1031**	6.9	275	< 5.0
10-20-2009	**1032**	--	--	--
10-20-2009	**1033**	--	--	--