473058100272200 McCLUSKY CANAL AT HOFFER LAKE, ND

Lake Oahe Basin
Painted Woods-Square Butte Subbasin

LOCATION.--Lat 47°30′58″, long 100°27′22″ referenced to North American Datum of 1983, Sheridan County, ND, Hydrologic Unit 10130101.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2007 to 2011 (discontinued).

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 8

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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)
10-18-2010	**1130**	719	10.5	14.3	136	8.5	8.7	2,880	2,920	10.2
02-17-2011	**0945**	700	-10.0	8.9	69	8.6	8.2	3,280	3,210	.9
05-10-2011	**1030**	705	10.0	--	--	8.5	8.5	2,530	2,570	10.7
07-11-2011	**1300**	717	24.1	7.2	90	8.5	8.4	2,730	2,800	23.2
09-21-2011	**1200**	715	11.5	9.0	90	8.3	8.7	2,780	2,800	12.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 8

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as $CaCO_3$ (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)	Sodium, water, filtered, mg/L (00930)
10-18-2010	**1130**	2,370	2,330	1,040	93.0	197	38.5	5.11	43	380
02-17-2011	**0945**	2,690	2,550	1,070	107	194	40.7	5.17	43	388
05-10-2011	**1030**	2,050	2,000	864	84.3	158	28.8	4.62	43	312
07-11-2011	**1300**	2,270	2,170	901	86.8	166	30.7	4.91	44	339
09-21-2011	**1200**	2,290	2,130	880	86.6	161	30.2	4.69	43	319

473058100272200 McCLUSKY CANAL AT HOFFER LAKE, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 3 of 8

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (90410)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)
10-18-2010	**1130**	335	--	--	--	33.9	.17	2.45	1,390
02-17-2011	**0945**	403	--	--	--	37.1	.18	6.26	1,530
05-10-2011	**1030**	275	282	324	10	30.2	.14	5.01	1,210
07-11-2011	**1300**	292	--	--	--	36.9	.10	11.4	1,330
09-21-2011	**1200**	298	--	--	--	34.1	.10	.21	1,320

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 4 of 8

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, filtered, mg/L (00607)	Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)
10-18-2010	**1130**	.037	.036	.028	.007	1.7	1.3	.006	.023
02-17-2011	**0945**	.308	.054	.050	.004	1.2	1.2	.025	.040
05-10-2011	**1030**	.014	< .008	< .008	< .001	< .99	< 1.4	.007	.017
07-11-2011	**1300**	.093	.014	.009	.005	1.2	1.3	.025	.039
09-21-2011	**1200**	.046	< .008	< .008	< .001	< 1.2	< 1.2	< .004	.019

473058100272200 McCLUSKY CANAL AT HOFFER LAKE, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 5 of 8
[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	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)
10-18-2010	1130	.042	1.82	1.39	--	--	--	--	--
02-17-2011	0945	.044	1.55	1.57	--	--	--	--	--
05-10-2011	1030	.094	1.00	1.38	< 3.4	31	< .01	< .03	< .12
07-11-2011	1300	.061	1.28	1.37	--	--	--	--	--
09-21-2011	1200	.069	1.25	1.26	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 6 of 8
[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	Cobalt, water, filtered, µg/L (01035)	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Lithium, water, filtered, µg/L (01130)	Manga-nese, water, filtered, µg/L (01056)	Molyb-denum, water, filtered, µg/L (01060)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)
10-18-2010	1130	--	--	129	--	--	11.2	--	--	--
02-17-2011	0945	--	--	10	--	--	41.3	--	--	--
05-10-2011	1030	.24	< 1.0	< 6	< .03	207	3.3	3.82	1.8	< .01
07-11-2011	1300	--	--	< 6	--	--	19.7	--	--	--
09-21-2011	1200	--	--	< 6	--	--	3.7	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 7 of 8
[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	Strontium, water, filtered, µg/L (01080)	Thallium, water, filtered, µg/L (01057)	Vanadium, water, filtered, µg/L (01085)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	Organic carbon, water, unfiltered, mg/L (00680)
10-18-2010	1130	--	--	--	--	--	--	--	--	14.8
02-17-2011	0945	--	--	--	--	--	--	--	--	19.9
05-10-2011	1030	702	< .02	1.1	< 2.8	.28	4.2	300	.47	17.9
07-11-2011	1300	--	--	--	--	--	--	--	--	20.2
09-21-2011	1200	--	--	--	--	--	--	--	--	19.7

473058100272200 McCLUSKY CANAL AT HOFFER LAKE, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 8 of 8

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; 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	Uranium (natural), water, filtered, µg/L (22703)
10-18-2010	**1130**	--
02-17-2011	**0945**	--
05-10-2011	**1030**	6.93
07-11-2011	**1300**	--
09-21-2011	**1200**	--