



North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850
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WATER DEVELOPMENT DIVISION
(701) 328-2752

September 12, 2017

North Dakota Department of Health
Division of Water Quality
918 East Divide Avenue
Bismarck, ND 58501-1947

RE: August 2017 Devils Lake Outlets Monthly Discharge and Water Quality Report

Division of Water Quality:

Enclosed is the monthly discharge report for the Devils Lake Outlets for the month of August 2017. Both outlets discharged continuously with the exception of temporary maintenance shut-downs. August combined discharge averaged 336 cfs and a total of 20,644 acre-feet were discharged which brings the 2017 discharge total to 88,273 ac-ft (**Figure 1**).

The attached tables contain average daily outlet discharges and water quality results from samples collected from the outlets and the corresponding upstream and downstream locations. Also included are average daily stream flow data and conductivity data obtained from the USGS gaging stations located upstream and downstream of the outlets.

If you have any questions, please contact me at (701) 328-4948.

Sincerely,

Jonathan Kelsch P.E.
Section Chief of Construction

JK:TD/416-10
Enclosure

August 2017 Devils Lake Outlet Discharge Summary

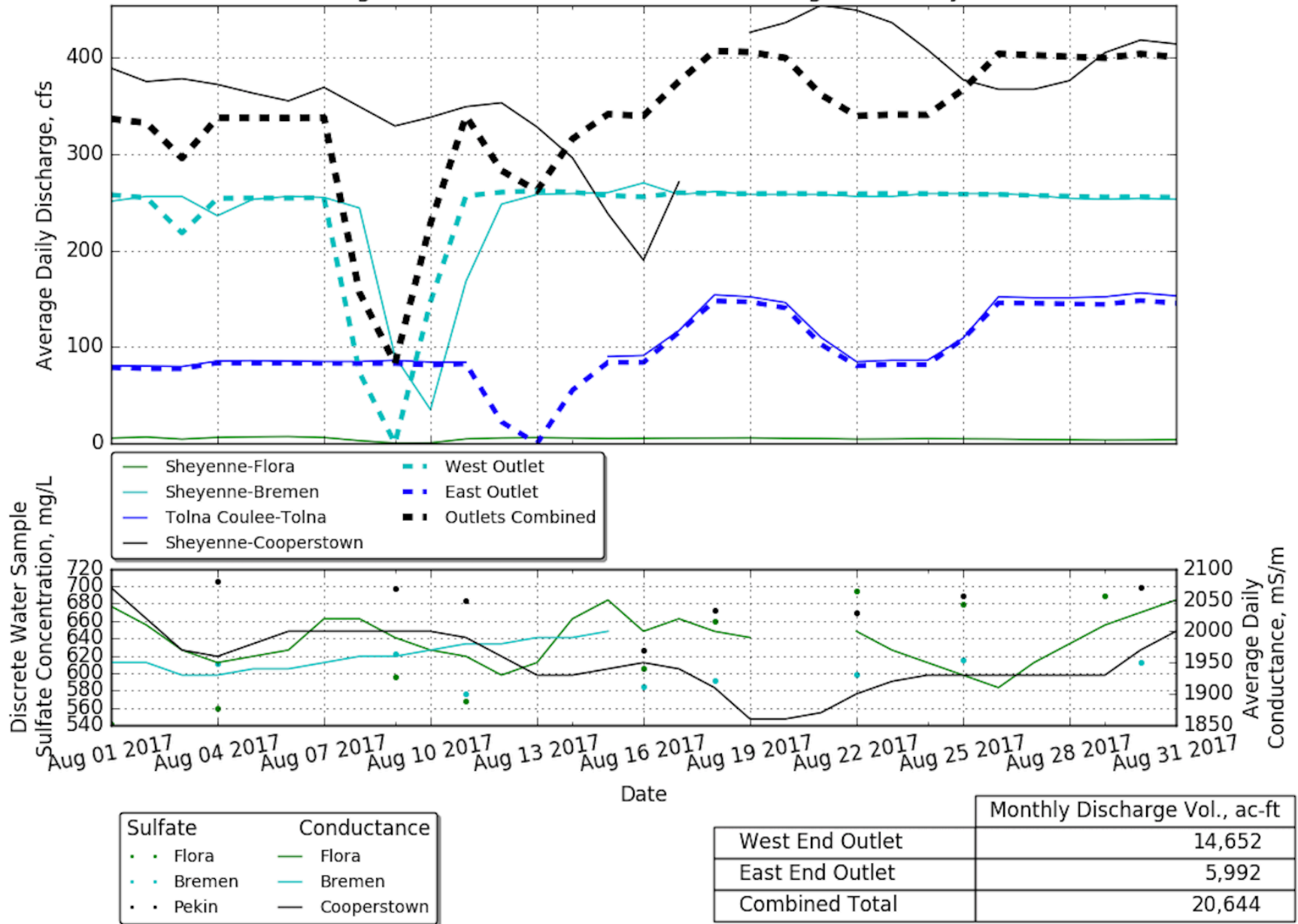


Figure 1: Devils Lake Outlet Discharge Summary

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission
 ADDRESS: 900 E Boulevard Avenue,
 Bismarck ND 58505

MONTHLY DISCHARGE REPORT


LOCATION: WEST END OUTLET

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/17	8/31/17

LOCATION: Benson Co, ND

Devils Lake West Outlet discharged 14,652 ac-ft over 30 Days

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.61	8.89	8.77	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	587	615	602	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	591	622	601	mg/L	2 x Week	GRAB
OUTLET DISCHARGE	0	262	238	cfs	Continuous	Recorder
SIGNATURE	 JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			9/12/17	701-328-4948	
NAME AND TITLE				DATE	TELEPHONE NUMBER	
COMMENT AND EXPLANATION OF ANY VIOLATIONS						
Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.						

Notes:

- ac-ft - Acre feet
- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- NA - Not available

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission
 ADDRESS: 900 E Boulevard Avenue,
 Bismarck ND 58505

MONTHLY DISCHARGE REPORT


LOCATION: EAST END OUTLET

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/17	8/31/17

LOCATION: Ramsey, Benson, Nelson, ND

Devils Lake East Outlet discharged 5,992 ac-ft over 30 Days

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.56	8.78	8.71	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1940	2760	2575	µS/cm	Continuous	Recorder
SULFATE	939	1010	983	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	955	999	980	mg/L	2 x Week	GRAB
OUTLET DISCHARGE	0	148	97	cfs	Continuous	Recorder
SIGNATURE				9/12/17	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	
COMMENT AND EXPLANATION OF ANY VIOLATIONS						
Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.						

Notes:

- ac-ft - Acre feet
- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- NA - Not available

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission
 ADDRESS: 900 E Boulevard Avenue,
 Bismarck ND 58505


MONTHLY DISCHARGE REPORT

LOCATION: UPSTREAM OF THE WEST END OUTLET (FLORA)

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/17	8/31/17

LOCATION: Benson Co, ND

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.31	8.44	8.35	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1,910	2,050	1,986	µS/cm	Continuous	Recorder
SULFATE	541	694	621	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	501	687	606	mg/L	2 x Week	GRAB
FLOW, INSTREAM	0	7	5	cfs	Continuous	Recorder
SIGNATURE				9/12/17	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	
COMMENT AND EXPLANATION OF ANY VIOLATIONS						
Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.						

Notes:

- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- USGS streamflow and specific conductance data courtesy of the USGS
- USGS data are provisional and subject to revision

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission
 ADDRESS: 900 E Boulevard Avenue,
 Bismarck ND 58505


MONTHLY DISCHARGE REPORT

LOCATION: DOWNSTREAM OF THE WEST END OUTLET (BREMEN)
 UPSTREAM OF THE EAST END OUTLET

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/17	8/31/17

LOCATION: Eddy Co, ND

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.62	8.89	8.76	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1,930	2,000	1,961	µS/cm	Continuous	Recorder
SULFATE	576	622	601	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	581	620	602	mg/L	2 x Week	GRAB
FLOW, INSTREAM	35	270	240	cfs	Continuous	Recorder
SIGNATURE				9/12/17	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	
COMMENT AND EXPLANATION OF ANY VIOLATIONS						
Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.						

Notes:

- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- USGS streamflow and specific conductance data courtesy of the USGS
- USGS data are provisional and subject to revision

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission
 ADDRESS: 900 E Boulevard Avenue,
 Bismarck ND 58505


MONTHLY DISCHARGE REPORT

LOCATION: DOWNSTREAM OF THE EAST END OUTLET (PEKIN)

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/17	8/31/17

LOCATION: Nelson Co, ND

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.46	8.68	8.58	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	626	705	680	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	649	705	679	mg/L	2 x Week	GRAB
FLOW, INSTREAM	NA	NA	NA	cfs	Continuous	Recorder
SIGNATURE				9/12/17	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	
COMMENT AND EXPLANATION OF ANY VIOLATIONS						
Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.						

Notes:

- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- NA - Not available

**Daily Outlet Discharge and Upstream and Downstream Flows
Devils Lake Outlets**

Date	Above West End Outlet - Shyenne River near Flora		West End Outlet		Below West End Outlet/Above East End Outlet -Shyenne River near Bremen		East End Outlet		Below East End Outlet - Toina Coulee near Tolna		Below East End Outlet - Shyenne River near Cooperstown		Sum of Outlets	
	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Daily Outlet Discharge (cfs)	Total Daily Volume (ft ³)	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Daily Outlet Discharge (cfs)	Total Daily Volume (ft ³)	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Daily Outlet Discharge (cfs)	Total Daily Volume (ft ³)
8/1/17	6	2,040	258	22,262,000	251	1,950	79	6,801,000	81	-	389	2,070	336	29,063,000
8/2/17	7	2,010	255	21,998,000	256	1,950	78	6,699,000	80	-	375	2,020	332	28,697,000
8/3/17	4	1,970	218	18,842,000	256	1,930	78	6,699,000	80	-	378	1,970	296	25,541,000
8/4/17	6	1,950	254	21,946,000	236	1,930	84	7,217,000	86	-	372	1,960	338	29,163,000
8/5/17	7	1,960	254	21,971,000	253	1,940	83	7,187,000	86	-	363	1,980	337	29,158,000
8/6/17	7	1,970	254	21,964,000	256	1,940	83	7,176,000	85	-	355	2,000	337	29,140,000
8/7/17	6	2,020	255	22,010,000	255	1,950	83	7,169,000	85	-	369	2,000	338	29,179,000
8/8/17	3	2,020	74	6,355,000	244	1,960	83	7,158,000	85	-	349	2,000	156	13,513,000
8/9/17	0	1,990	0	0	90	1,960	83	7,158,000	86	-	329	2,000	83	7,158,000
8/10/17	1	1,970	147	12,669,000	35	1,970	81	7,022,000	84	-	338	2,000	228	19,691,000
8/11/17	5	1,960	257	22,169,000	168	1,980	83	7,143,000	84	-	349	1,990	339	29,312,000
8/12/17	6	1,930	260	22,494,000	248	1,980	22	1,940,000	-	-	353	1,960	283	24,434,000
8/13/17	6	1,950	262	22,627,000	258	1,990	0	0	-	-	328	1,930	262	22,627,000
8/14/17	6	2,020	260	22,497,000	259	1,990	55	4,774,000	-	-	296	1,930	316	27,271,000
8/15/17	5	2,050	257	22,209,000	260	2,000	84	7,272,000	90	-	238	1,940	341	29,481,000
8/16/17	5	2,000	255	22,074,000	270	-	84	7,261,000	91	-	190	1,950	340	29,335,000
8/17/17	6	2,020	260	22,448,000	258	-	115	9,978,000	117	-	271	1,940	375	32,426,000
8/18/17	6	2,000	259	22,382,000	261	-	148	12,763,000	154	-	-	1,910	407	35,145,000
8/19/17	6	1,990	259	22,360,000	258	-	147	12,677,000	152	-	426	1,860	406	35,037,000
8/20/17	5	-	259	22,379,000	258	-	140	12,138,000	146	-	436	1,860	400	34,517,000
8/21/17	5	-	259	22,354,000	258	-	103	8,870,000	110	-	454	1,870	361	31,224,000
8/22/17	5	2,000	259	22,348,000	256	-	81	6,971,000	85	-	449	1,900	339	29,319,000
8/23/17	5	1,970	259	22,376,000	256	-	82	7,069,000	86	-	436	1,920	341	29,445,000
8/24/17	5	1,950	259	22,365,000	259	-	82	7,054,000	86	-	408	1,930	340	29,419,000
8/25/17	5	1,930	258	22,319,000	259	-	108	9,355,000	109	-	377	1,930	367	31,674,000
8/26/17	5	1,910	258	22,299,000	259	-	146	12,583,000	152	-	367	1,930	404	34,882,000
8/27/17	4	1,950	257	22,203,000	257	-	145	12,556,000	151	-	367	1,930	402	34,759,000
8/28/17	4	1,980	256	22,136,000	254	-	145	12,494,000	151	-	376	1,930	401	34,630,000
8/29/17	4	2,010	255	22,058,000	253	-	144	12,458,000	152	-	405	1,930	399	34,516,000
8/30/17	4	2,030	256	22,078,000	254	-	148	12,800,000	156	-	418	1,970	404	34,878,000
8/31/17	4	2,050	255	22,037,000	253	-	145	12,560,000	153	-	414	2,000	400	34,597,000
Minimum	0	1,910	0	0	35	1,930	0	0	80	0	190	1,860	83	7,158,000
Maximum	7	2,050	262	22,627,000	270	2,000	148	12,800,000	156	0	454	2,070	407	35,145,000
Average	5	1,986	238	20,588,032	240	1,961	97	8,419,419	109	0	366	1,952	336	29,007,452
			Total (Mgal)	4,774			Total (Mgal)	1,952				Total (Mgal)	6,726	
			Total (Ac-ft)	14,652			Total (Ac-ft)	5,992				Total (Ac-ft)	20,644	

Notes:

- cfs - cubic feet per second
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- ft³ - cubic feet
- Mgal - Millions of Gallons
- Ac ft - Acre Feet
- USGS streamflow and specific conductance data are preliminary and courtesy of the USGS
- NC - Not calculated

Sheyenne River Upstream of West End Outlet Near Flora
Monthly Water Quality Summary
Devils Lake Outlet Discharge Report

Date	Time	Specific Conductance USGS Gage (µS/cm)	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	Number of Samples included in 7- day Average
8/1/17	13:40	1,990	8.44	541	501	NA	3
8/2/17	-	-	-	-	-	-	-
8/3/17	-	-	-	-	-	-	-
8/4/17	9:30	1,880	8.35	559	550	NA	2
8/5/17	-	-	-	-	-	-	-
8/6/17	-	-	-	-	-	-	-
8/7/17	-	-	-	-	-	-	-
8/8/17	-	-	-	-	-	-	-
8/9/17	7:40	1,910	8.34	595	577	109	2
8/10/17	-	-	-	-	-	-	-
8/11/17	9:20	1,890	8.38	568	582	NA	2
8/12/17	-	-	-	-	-	-	-
8/13/17	-	-	-	-	-	-	-
8/14/17	-	-	-	-	-	-	-
8/15/17	-	-	-	-	-	-	-
8/16/17	8:07	1,960	8.32	606	587	NA	2
8/17/17	-	-	-	-	-	-	-
8/18/17	9:20	1,990	8.31	660	633	NA	2
8/19/17	-	-	-	-	-	-	-
8/20/17	-	-	-	-	-	-	-
8/21/17	-	-	-	-	-	-	-
8/22/17	8:10	2,020	8.34	694	653	74	3
8/23/17	-	-	-	-	-	-	-
8/24/17	-	-	-	-	-	-	-
8/25/17	9:10	1,940	8.34	679	687	NA	2
8/26/17	-	-	-	-	-	-	-
8/27/17	-	-	-	-	-	-	-
8/28/17	-	-	-	-	-	-	-
8/29/17	10:00	2,000	8.33	689	684	NA	2
8/30/17	-	-	-	-	-	-	-
8/31/17	-	-	-	-	-	-	-
Minimum		1,880	8.31	541	501	74	
Maximum		2,020	8.44	694	687	109	
Average		1,953	8.35	621	606	92	

Notes:

µS/cm - Microsiemens per Centimeter at 25 degrees Celsius

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

USGS specific conductance data courtesy of the USGS

USGS data are provisional and subject to revision

Italic font denotes preliminary result

**West End Outlet
Monthly Water Quality Summary
Devils Lake Outlet Discharge Report**

Date	Time	Specific Conductance from Telemetry System (µS/cm)	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	Number of Samples included in 7- day Average
8/1/17	-	-	-	-	-	-	-
8/2/17	-	-	-	-	-	-	-
8/3/17	-	-	-	-	-	-	-
8/4/17	9:45	-	8.89	613	622	NA	2
8/5/17	-	-	-	-	-	-	-
8/6/17	-	-	-	-	-	-	-
8/7/17	-	-	-	-	-	-	-
8/8/17	-	-	-	-	-	-	-
8/9/17	-	-	-	-	-	-	-
8/10/17	-	-	-	-	-	-	-
8/11/17	9:30	-	8.84	595	595	NA	1
8/12/17	-	-	-	-	-	-	-
8/13/17	-	-	-	-	-	-	-
8/14/17	-	-	-	-	-	-	-
8/15/17	-	-	-	-	-	-	-
8/16/17	8:15	-	8.61	587	591	NA	2
8/17/17	-	-	-	-	-	-	-
8/18/17	9:35	-	8.71	594	591	NA	2
8/19/17	-	-	-	-	-	-	-
8/20/17	-	-	-	-	-	-	-
8/21/17	-	-	-	-	-	-	-
8/22/17	8:20	-	8.75	602	594	23	3
8/23/17	-	-	-	-	-	-	-
8/24/17	-	-	-	-	-	-	-
8/25/17	9:25	-	8.87	607	605	NA	2
8/26/17	-	-	-	-	-	-	-
8/27/17	-	-	-	-	-	-	-
8/28/17	-	-	-	-	-	-	-
8/29/17	10:15	-	8.71	615	611	NA	2
8/30/17	-	-	-	-	-	-	-
8/31/17	-	-	-	-	-	-	-
Minimum		NA	8.61	587	591	23	
Maximum		NA	8.89	615	622	23	
Average		NA	8.77	602	601	23	

Notes:

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

Italic font denotes preliminary result

Sheyenne River Downstream of West End Outlet/Upstream of East End Outlet (Bremen)
Monthly Water Quality Summary
Devils Lake Outlet Discharge Report

Date	Time	Specific Conductance USGS Gage (µS/cm)	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	Number of samples included in 7- day Average
8/1/17	-	-	-	-	-	-	-
8/2/17	-	-	-	-	-	-	-
8/3/17	-	-	-	-	-	-	-
8/4/17	9:05	1,790	8.86	611	620	NA	2
8/5/17	-	-	-	-	-	-	-
8/6/17	-	-	-	-	-	-	-
8/7/17	-	-	-	-	-	-	-
8/8/17	-	-	-	-	-	-	-
8/9/17	7:20	1,800	8.72	622	617	52	2
8/10/17	-	-	-	-	-	-	-
8/11/17	9:00	1,920	8.75	576	599	NA	2
8/12/17	-	-	-	-	-	-	-
8/13/17	-	-	-	-	-	-	-
8/14/17	-	-	-	-	-	-	-
8/15/17	-	-	-	-	-	-	-
8/16/17	7:40	1,970	8.62	585	581	NA	2
8/17/17	-	-	-	-	-	-	-
8/18/17	8:55	2,010	8.72	591	588	NA	2
8/19/17	-	-	-	-	-	-	-
8/20/17	-	-	-	-	-	-	-
8/21/17	-	-	-	-	-	-	-
8/22/17	7:40	2,000	8.79	599	592	32	3
8/23/17	-	-	-	-	-	-	-
8/24/17	-	-	-	-	-	-	-
8/25/17	8:45	1,950	8.89	615	607	NA	2
8/26/17	-	-	-	-	-	-	-
8/27/17	-	-	-	-	-	-	-
8/28/17	-	-	-	-	-	-	-
8/29/17	-	-	-	-	-	-	-
8/30/17	9:40	1,980	8.71	612	614	NA	2
8/31/17	-	-	-	-	-	-	-
Minimum		1,790	8.62	576	581	32	
Maximum		2,010	8.89	622	620	52	
Average		1,928	8.76	601	602	42	

Notes:

µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
mg/L - Milligrams per liter or parts per million
NA - Not Analyzed
USGS specific conductance data courtesy of the USGS
USGS data are provisional and subject to revision
Italic font denotes preliminary result

**East End Outlet
Monthly Water Quality Summary
Devils Lake Discharge Report**

Date	Time	Specific Conductance USGS Gage (μ S/cm)	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	Number of samples included in 7- day average
8/1/17	-	-	-	-	-	-	-
8/2/17	-	-	-	-	-	-	-
8/3/17	-	-	-	-	-	-	-
8/4/17	7:50	2710	8.77	1000	988	NA	2
8/5/17	-	-	-	-	-	-	-
8/6/17	-	-	-	-	-	-	-
8/7/17	-	-	-	-	-	-	-
8/8/17	-	-	-	-	-	-	-
8/9/17	8:40	2690	8.69	994	997	16	2
8/10/17	-	-	-	-	-	-	-
8/11/17	7:45	2540	8.74	971	983	NA	2
8/12/17	-	-	-	-	-	-	-
8/13/17	-	-	-	-	-	-	-
8/14/17	-	-	-	-	-	-	-
8/15/17	-	-	-	-	-	-	-
8/16/17	9:30	1940	8.56	939	955	NA	2
8/17/17	-	-	-	-	-	-	-
8/18/17	7:35	2740	8.78	978	959	NA	2
8/19/17	-	-	-	-	-	-	-
8/20/17	-	-	-	-	-	-	-
8/21/17	-	-	-	-	-	-	-
8/22/17	9:35	2490	8.66	984	967	22	3
8/23/17	-	-	-	-	-	-	-
8/24/17	-	-	-	-	-	-	-
8/25/17	7:20	2730	8.76	1010	997	NA	2
8/26/17	-	-	-	-	-	-	-
8/27/17	-	-	-	-	-	-	-
8/28/17	-	-	-	-	-	-	-
8/29/17	9:00	2760	8.70	987	999	NA	2
8/30/17	-	-	-	-	-	-	-
8/31/17	-	-	-	-	-	-	-
Minimum		1940	8.56	939	955	16	
Maximum		2760	8.78	1010	999	22	
Average		2575	8.71	983	980	19	

Notes:

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

Italic font denotes preliminary result

**Sheyenne River Downstream of East End Outlet near Pekin
Monthly Water Quality Summary
Devils Lake Outlet Discharge Report**

Date	Time	Specific Conductance Laboratory Analysis (µS/cm)	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	Number of samples included in 7- day Average
8/1/17	-	-	-	-	-	-	-
8/2/17	-	-	-	-	-	-	-
8/3/17	-	-	-	-	-	-	-
8/4/17	8:15	-	8.68	705	705	NA	2
8/5/17	-	-	-	-	-	-	-
8/6/17	-	-	-	-	-	-	-
8/7/17	-	-	-	-	-	-	-
8/8/17	-	-	-	-	-	-	-
8/9/17	9:05	-	8.56	697	701	72	2
8/10/17	-	-	-	-	-	-	-
8/11/17	8:05	-	8.63	683	690	NA	2
8/12/17	-	-	-	-	-	-	-
8/13/17	-	-	-	-	-	-	-
8/14/17	-	-	-	-	-	-	-
8/15/17	-	-	-	-	-	-	-
8/16/17	10:00	-	8.46	626	655	NA	2
8/17/17	-	-	-	-	-	-	-
8/18/17	8:05	-	8.63	672	649	NA	2
8/19/17	-	-	-	-	-	-	-
8/20/17	-	-	-	-	-	-	-
8/21/17	-	-	-	-	-	-	-
8/22/17	10:05	-	8.54	670	656	59	3
8/23/17	-	-	-	-	-	-	-
8/24/17	-	-	-	-	-	-	-
8/25/17	7:50	-	8.57	689	680	NA	2
8/26/17	-	-	-	-	-	-	-
8/27/17	-	-	-	-	-	-	-
8/28/17	-	-	-	-	-	-	-
8/29/17	-	-	-	-	-	-	-
8/30/17	9:35	-	8.58	698	694	NA	2
8/31/17	-	-	-	-	-	-	-
Minimum			8.46	626	649	59	
Maximum			8.68	705	705	72	
Average			8.58	680	679	66	

Notes:

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

Italic font denotes preliminary result

Bold font denotes sample sulfate concentration exceeds 750 mg/L