06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

Missouri-Poplar Basin
Poplar Subbasin

LOCATION.--Lat 49°00′00″, long 105°24′32″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.3, T.1 N., R.26 W., Hydrologic Unit is unknown, Lat 49°00′00″, long 105°24′32″ referenced to North American Datum of 1927, in SW¼SW¼ sec.3, T.1 N., R.26 W., second meridian, in Saskatchewan, Hydrologic Unit 10060003, on left bank 10 ft north of international boundary, 400 ft southwest of Canadian East Poplar Port of Entry, 14 mi north of Scobey, and at river mile 21.9.

DRAINAGE AREA.--541 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1931 to current year (seasonal records only in most seasons prior to October 1974). Prior to March 1962, published as East Fork Poplar River at international boundary.

REVISED RECORDS.-- Water Supply Paper 1389: 1932, 1939, 1942-43, 1947. Water Data Report 1983: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 2,410.92 ft (International Boundary Commission Survey Datum). Prior to Oct. 5, 1953, water-stage recorder at site 80 ft upstream at same elevation.

COOPERATION.--This is one of a number of stations which are maintained jointly by Canada and the United States.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Since September 1975 flow is regulated by Morrison Dam at Cookson Reservoir 3.1 mi upstream. U.S. Geological Survey satellite telemeter is located at the station.

06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.5	2.5	2.3	2.3	2.0	2.3	2.9	4.2	2.2	2.7	e2.0	e2.0
2	2.5	2.5	2.3	2.3	2.0	2.1	3.0	8.9	2.0	2.5	e2.0	e2.0
3	2.6	2.3	2.2	2.2	2.0	2.0	2.9	8.9	2.0	e2.0	e2.0	e2.0
4	2.5	2.5	2.2	2.2	2.0	1.9	2.9	7.8	1.9	e2.0	e2.0	e2.0
5	2.3	2.6	2.2	2.1	2.0	1.9	3.2	7.4	2.0	e2.0	e2.0	e3.7
6	2.2	2.9	2.1	2.1	1.9	1.9	2.9	6.8	1.9	e3.5	e2.0	4.5
7	2.3	2.5	2.1	2.1	1.9	2.2	2.7	6.7	1.8	3.2	e2.0	3.7
8	2.4	2.4	2.1	2.1	1.9	2.6	2.7	6.6	1.8	e2.5	e2.0	e2.8
9	2.5	2.4	2.2	2.1	2.0	2.9	2.7	6.1	2.1	e2.0	e1.7	e2.5
10	2.3	2.4	2.2	2.1	1.9	3.2	2.8	5.9	2.2	e2.0	e1.7	e2.0
11	2.4	2.4	2.3	2.1	1.9	2.8	2.9	5.7	2.4	e2.0	e1.7	e1.5
12	2.5	2.5	2.3	2.1	2.0	2.5	2.8	5.8	2.3	e2.0	e1.5	e1.0
13	2.4	2.5	2.3	2.1	2.0	2.3	3.1	6.2	2.1	e3.1	e1.5	e1.0
14	2.6	e2.0	2.2	2.1	2.0	2.2	2.8	6.0	2.2	e3.0	e1.5	e1.5
15	2.3	e2.5	2.1	2.1	2.0	2.1	2.6	5.8	2.7	e2.5	e3.5	e2.0
16	e2.0	e2.5	2.1	2.0	1.9	2.1	2.6	5.8	2.4	e2.0	3.3	e2.0
17	e1.6	e2.5	2.1	2.0	1.7	2.2	3.4	5.7	2.4	e2.4	e3.0	e2.0
18	e2.4	e2.5	2.1	2.0	1.8	2.2	4.2	5.9	2.2	e2.8	e2.5	e2.0
19	e2.5	e3.0	2.1	2.0	1.7	2.1	4.2	5.4	2.2	e2.5	e2.0	e2.0
20	e2.1	e2.5	2.1	2.0	1.8	2.1	3.3	5.1	2.1	e2.5	e2.0	e2.0
21	e2.0	e2.5	2.1	2.0	1.8	2.1	3.1	5.7	2.2	e2.6	e2.0	e2.0
22	e2.1	e2.5	2.2	2.0	1.9	2.1	3.1	5.5	2.2	e2.2	e2.0	e2.0
23	e1.6	e2.5	2.3	2.0	1.8	2.1	3.2	6.0	e2.0	e2.0	e2.0	e2.0
24	e2.5	e2.5	2.3	2.0	1.9	2.0	2.8	6.4	e1.5	e2.6	e2.0	e2.0
25	e2.5	2.5	2.3	2.1	1.9	2.2	2.6	5.0	e1.0	3.2	e3.3	e2.0
26	e2.5	2.3	2.3	2.3	2.0	2.4	2.5	5.9	e1.0	e2.8	e2.8	e3.9
27	e2.1	2.3	2.3	2.2	1.9	2.7	2.6	5.8	e1.0	e2.4	e2.2	3.3
28	e5.0	2.3	2.3	2.1	1.9	2.8	2.6	5.9	2.3	e2.2	e2.0	3.2
29	3.6	2.2	2.4	2.0	---	2.9	2.5	5.9	2.7	e2.0	e2.0	3.6
30	2.8	2.2	2.3	2.0	---	3.1	2.5	5.2	2.9	e2.0	e2.0	e3.0
31	2.5	---	2.3	2.0	---	2.9	---	2.9	---	e2.0	e2.0	---
Total	76.1	73.7	68.7	64.8	53.5	72.9	88.1	186.9	61.7	75.2	66.2	71.2
Mean	2.45	2.46	2.22	2.09	1.91	2.35	2.94	6.03	2.06	2.43	2.14	2.37
Max	5.0	3.0	2.4	2.3	2.0	3.2	4.2	8.9	2.9	3.5	3.5	4.5
Min	1.6	2.0	2.1	2.0	1.7	1.9	2.5	2.9	1.0	2.0	1.5	1.0
Ac-ft	151	146	136	129	106	145	175	371	122	149	131	141

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2006, BY WATER YEAR (WY) *

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.58	2.45	2.26	2.19	2.53	19.7	20.8	11.1	5.07	2.78	2.36	2.50
Max	4.65	4.42	4.37	4.40	7.95	280	306	40.7	23.2	6.84	3.31	4.10
(WY)	(1980)	(1980)	(1980)	(1980)	(1997)	(1999)	(1982)	(1979)	(1979)	(1999)	(1997)	(1979)
Min	1.59	1.64	1.27	1.26	0.14	1.91	1.80	2.98	1.72	1.79	1.58	1.53
(WY)	(1993)	(1993)	(1993)	(1982)	(2004)	(1992)	(1992)	(1978)	(1992)	(1977)	(1992)	(1992)

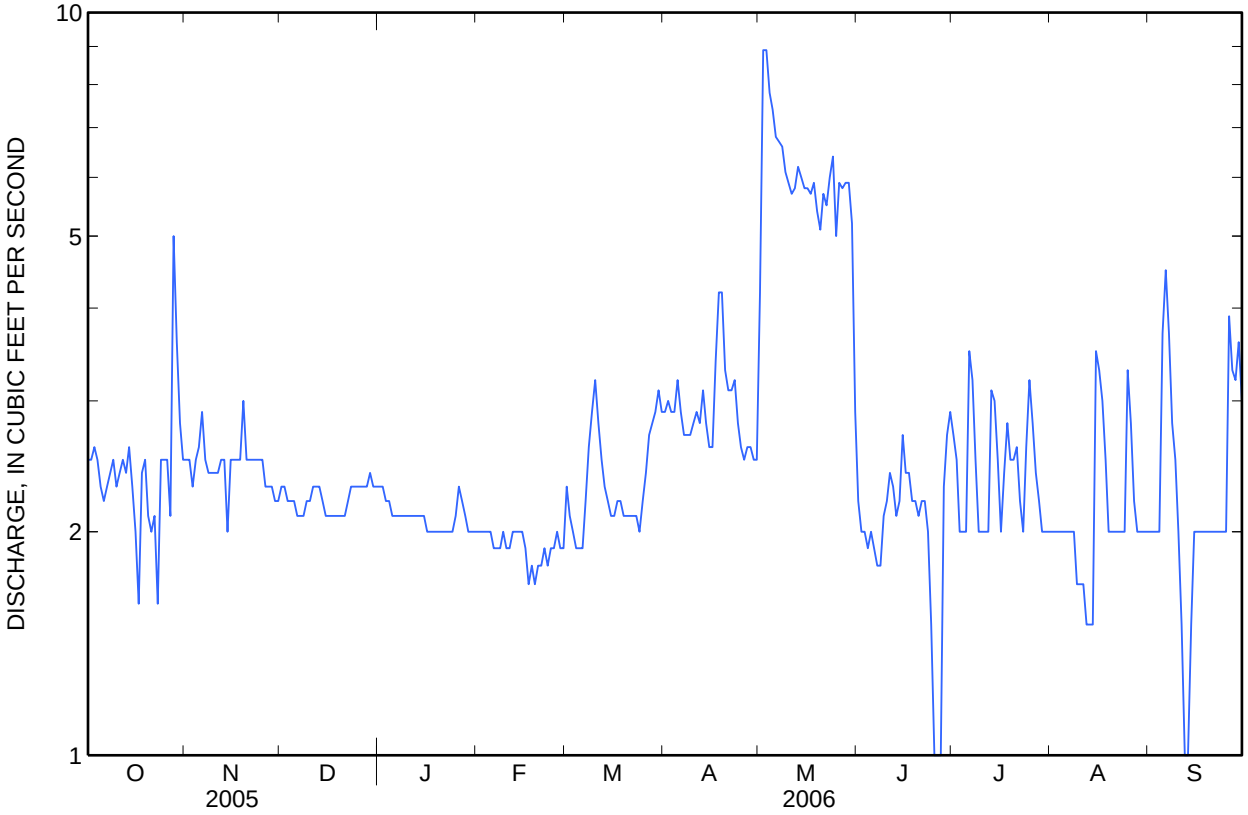
* Since initial filling of Cookson Reservoir.

06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1977 – 2006*	
Annual total	1,089.10		959.0			
Annual mean	2.98		2.63		6.37	
Highest annual mean					32.3	1982
Lowest annual mean					2.13	1992
Highest daily mean	15	May 18	8.9	May 2	2,930	Apr 15, 1982
Lowest daily mean	0.50	Jul 29	1.0	Jun 25	0.00	Feb 5, 2004
Annual seven-day minimum	1.1	Jul 26	1.6	Jun 21	0.00	Feb 5, 2004
Maximum peak flow			[a]12	May 2	[c]4,020	Apr 23, 1975
Maximum peak stage			[b]6.06	Aug 31	[d]12.80	Mar 25, 1943
Instantaneous low flow					[b]0.70	Feb 28, 1998
Annual runoff (ac-ft)	2,160		1,900		4,620	
10 percent exceeds	4.1		3.7		6.5	
50 percent exceeds	2.4		2.2		2.5	
90 percent exceeds	1.6		1.9		1.7	

* Since initial filling of Cookson Reservoir.
[a] Gage height, 5.95 ft.
[b] Backwater from beaver dam.
[c] Gage height, 12.01 ft.
[d] Backwater from ice.



WATER-QUALITY RECORDS

COOPERATION.--This is one of a number of stations which are maintained jointly by Canada and the United States.

PERIOD OF RECORD.--Water years 1964-65, 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1982 to current year.
WATER TEMPERATURE: June 1975 to September 1983.

INSTRUMENTATION.--Specific conductance monitor installed April 1995.

REMARKS.--Daily specific conductance records are rated good to excellent except during periods of ice cover (December through March) when the records are rated fair to poor. Several unpublished observations of specific conductance and water temperature were made during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 2,040 microsiemens per centimeter (µS/cm) at 25.0°C, Feb. 10-12, 1997; minimum daily, 363 µS/cm at 25.0°C, July 2, 1991.

WATER TEMPERATURE: Maximum, 29.5°C, July 6, 1975, July 25, 26, 1978; minimum, 0.0°C on many days during winters most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,940 microsiemens per centimeter (µS/cm) at 25.0°C, Feb. 18; minimum, 864 µS/cm at 25.0°C, Mar. 10 and 11.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 3

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
Apr													
11...	1215	2.9	701	9.0	89	8.3	1,420	13.0	11.0	370	70.8	47.9	7.91
May													
23...	1000	5.7	698	7.6	91	8.5	1,620	26.5	19.5	410	51.8	67.4	18.2
Jun													
20...	1245	2.1	704	7.3	89	8.4	1,450	22.0	21.0	330	50.2	50.2	8.63
Aug													
15...	0945	1.3	705	6.4	75	8.4	1,460	25.5	19.0	310	41.1	49.7	8.46

06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 2 of 3
[Remark codes: <, less than; E, estimated.]

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, dissolved, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
Apr													
11...	5	205	523	6.78	.41	12.6	274	941	1.28	7.37	.173	.049	.006
May													
23...	4	206	501	8.21	.42	4.8	348	1,010	1.37	15.5	.054	.059	.009
Jun													
20...	5	216	502	6.35	.37	8.3	289	932	1.27	5.29	.044	E.009	.003
Aug													
15...	5	209	528	6.97	.39	9.8	282	926	1.26	3.25	E.007	<.016	<.002

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 3 of 3
[Remark codes: <, less than; E, estimated.]

Date	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Cadmium water, unfltrd ug/L (01027)	Lead, water, unfltrd recoverable, ug/L (01051)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
Apr											
11...	.94	<.006	.065	4.7	1,580	<.04	.46	2	95	120	.94
May											
23...	1.11	<.006	.052	4.5	1,580	<.04	.32	2	87	108	1.7
Jun											
20...	.86	E.005	.077	5.7	1,840	E.02	.69	3	93	104	.59
Aug											
15...	.91	.008	.055	6.2	2,020	<.04	.62	3	90	80	.28

06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	1,480	1,450	1,470	1,580	1,490	1,520	1,480	1,470	1,480	1,480	1,460	1,470
2	1,480	1,460	1,470	1,500	1,490	1,490	1,470	1,470	1,470	1,500	1,480	1,490
3	1,490	1,420	1,460	1,530	1,490	1,490	1,480	1,470	1,480	1,510	1,490	1,500
4	1,490	1,440	1,460	1,530	1,500	1,510	1,490	1,480	1,480	1,520	1,510	1,510
5	1,470	1,450	1,460	1,520	1,500	1,510	1,500	1,490	1,490	1,530	1,520	1,520
6	1,490	1,440	1,460	1,540	1,490	1,510	1,510	1,490	1,500	1,540	1,520	1,530
7	1,520	1,480	1,500	1,500	1,500	1,500	1,510	1,500	1,510	1,550	1,540	1,540
8	1,520	1,520	1,520	1,540	1,490	1,510	1,520	1,510	1,520	1,570	1,550	1,560
9	1,540	1,510	1,520	1,540	1,520	1,530	1,540	1,520	1,530	1,580	1,560	1,570
10	1,530	1,510	1,520	1,540	1,520	1,530	1,550	1,540	1,540	1,600	1,570	1,580
11	1,530	1,520	1,520	1,520	1,510	1,520	1,590	1,540	1,560	1,600	1,560	1,580
12	1,520	1,510	1,520	1,520	1,480	1,500	1,600	1,570	1,590	1,590	1,570	1,580
13	1,530	1,510	1,520	1,490	1,470	1,480	1,630	1,590	1,610	1,610	1,580	1,590
14	1,540	1,530	1,540	1,480	1,470	1,480	1,660	1,630	1,650	1,620	1,600	1,620
15	1,540	1,500	1,530	1,500	1,480	1,490	1,670	1,660	1,670	1,650	1,600	1,630
16	1,540	1,530	1,540	1,520	1,500	1,510	1,670	1,650	1,660	1,640	1,630	1,630
17	1,550	1,530	1,540	1,510	1,500	1,510	1,660	1,640	1,640	1,640	1,630	1,640
18	1,540	1,530	1,530	1,810	1,460	1,540	1,640	1,620	1,630	1,650	1,640	1,640
19	1,540	1,520	1,530	1,830	1,460	1,510	1,630	1,550	1,600	1,650	1,640	1,650
20	1,540	1,520	1,530	1,490	1,490	1,490	1,570	1,560	1,570	1,650	1,640	1,650
21	1,530	1,520	1,530	1,490	1,480	1,490	1,570	1,480	1,530	1,660	1,640	1,650
22	1,540	1,530	1,530	1,490	1,460	1,470	1,480	1,440	1,470	1,670	1,650	1,660
23	1,540	1,530	1,540	1,520	1,470	1,500	1,450	1,400	1,420	1,720	1,660	1,690
24	1,540	1,540	1,540	1,540	1,460	1,480	1,400	1,390	1,390	1,740	1,700	1,720
25	1,540	1,540	1,540	1,470	1,470	1,470	1,390	1,390	1,390	1,750	1,730	1,740
26	1,550	1,540	1,540	1,470	1,460	1,460	1,400	1,390	1,400	1,760	1,700	1,740
27	1,560	1,550	1,560	1,590	1,460	1,540	1,420	1,400	1,410	1,710	1,700	1,700
28	1,570	1,530	1,550	1,560	1,540	1,550	1,440	1,420	1,430	1,700	1,690	1,700
29	1,530	1,530	1,530	1,540	1,470	1,490	1,450	1,430	1,440	1,710	1,700	1,700
30	1,530	1,530	1,530	1,480	1,470	1,480	1,460	1,440	1,450	1,720	1,710	1,710
31	1,540	1,520	1,530	---	---	---	1,470	1,450	1,460	1,720	1,710	1,710
Month	1,570	1,420	1,520	1,830	1,460	1,500	1,670	1,390	1,520	1,760	1,460	1,620

06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	1,730	1,710	1,720	1,460	1,430	1,440	1,130	1,060	1,080	1,610	1,550	1,570
2	1,730	1,720	1,720	1,430	1,290	1,350	1,120	1,060	1,100	1,570	1,520	1,540
3	1,740	1,720	1,730	1,300	1,300	1,300	1,120	1,030	1,100	1,570	1,530	1,560
4	1,750	1,730	1,740	1,310	1,300	1,300	1,040	1,020	1,030	1,590	1,570	1,580
5	1,760	1,740	1,750	1,320	1,310	1,310	1,040	1,010	1,020	1,590	1,570	1,580
6	1,770	1,740	1,760	1,330	1,320	1,320	1,040	984	1,000	1,600	1,560	1,590
7	1,770	1,760	1,760	1,340	1,330	1,330	1,090	1,020	1,050	1,610	1,600	1,600
8	1,780	1,770	1,770	1,340	1,250	1,320	1,110	1,080	1,100	1,610	1,590	1,600
9	1,790	1,770	1,780	1,250	1,130	1,170	1,350	1,100	1,240	1,600	1,570	1,580
10	1,780	1,770	1,780	1,130	864	1,020	1,410	1,340	1,370	1,600	1,570	1,590
11	1,780	1,770	1,780	879	864	874	1,450	1,400	1,420	1,600	1,580	1,590
12	1,780	1,760	1,770	889	878	883	1,480	1,410	1,440	1,600	1,570	1,590
13	1,800	1,750	1,770	906	887	896	1,480	1,440	1,460	1,610	1,590	1,590
14	1,770	1,730	1,750	945	903	921	1,490	1,370	1,450	1,650	1,590	1,610
15	1,790	1,720	1,750	991	939	963	1,590	1,490	1,510	1,640	1,560	1,620
16	1,830	1,750	1,780	1,040	989	1,010	1,540	1,510	1,530	1,630	1,580	1,610
17	1,900	1,830	1,870	1,090	1,040	1,060	1,530	1,500	1,520	1,630	1,610	1,620
18	1,940	1,760	1,880	1,110	1,080	1,090	1,540	1,520	1,530	1,620	1,600	1,610
19	1,780	1,690	1,740	1,130	1,100	1,120	1,550	1,520	1,540	1,660	1,600	1,630
20	1,710	1,700	1,700	1,170	1,130	1,140	1,520	1,500	1,520	1,640	1,590	1,600
21	1,700	1,690	1,690	1,220	1,160	1,190	1,630	1,500	1,530	1,610	1,600	1,600
22	1,690	1,610	1,660	1,280	1,220	1,240	1,680	1,590	1,630	1,620	1,600	1,610
23	1,610	1,580	1,590	1,270	1,250	1,260	1,690	1,640	1,670	1,610	1,560	1,600
24	1,580	1,520	1,550	1,270	1,260	1,260	1,640	1,560	1,610	1,580	1,490	1,560
25	1,520	1,490	1,510	1,260	1,130	1,230	1,640	1,540	1,600	1,640	1,500	1,570
26	1,500	1,480	1,490	1,240	1,220	1,230	1,640	1,580	1,630	1,630	1,600	1,610
27	1,480	1,470	1,470	1,270	1,240	1,260	1,640	1,600	1,620	1,610	1,560	1,590
28	1,470	1,460	1,460	1,280	1,270	1,270	1,600	1,590	1,600	1,590	1,560	1,570
29	---	---	---	1,270	1,160	1,230	1,610	1,580	1,600	1,590	1,580	1,580
30	---	---	---	1,160	1,140	1,150	1,620	1,580	1,610	1,580	1,450	1,550
31	---	---	---	1,170	1,130	1,160	---	---	---	1,540	1,420	1,470
Month	1,940	1,460	1,700	1,460	864	1,170	1,690	984	1,400	1,660	1,420	1,590

06178500 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	1,530	1,430	1,470	1,480	1,440	1,460	1,440	1,410	1,430	1,450	1,440	1,440
2	1,530	1,410	1,470	1,500	1,450	1,470	1,430	1,400	1,420	1,450	1,440	1,440
3	1,610	1,480	1,560	1,480	1,460	1,460	1,440	1,410	1,420	1,460	1,440	1,450
4	1,620	1,500	1,590	1,480	1,460	1,470	1,440	1,420	1,430	1,480	1,460	1,470
5	1,610	1,600	1,610	1,500	1,470	1,480	1,450	1,420	1,430	1,470	1,450	1,460
6	1,610	1,500	1,590	1,500	1,440	1,470	1,470	1,440	1,460	1,470	1,440	1,460
7	1,600	1,570	1,580	1,460	1,430	1,450	1,490	1,460	1,480	1,480	1,450	1,460
8	1,580	1,480	1,520	1,490	1,440	1,470	1,510	1,480	1,490	1,470	1,450	1,460
9	1,490	1,460	1,470	1,490	1,470	1,480	1,520	1,500	1,500	1,460	1,450	1,450
10	1,470	1,440	1,460	1,510	1,480	1,500	1,510	1,490	1,500	1,460	1,450	1,450
11	1,460	1,440	1,450	1,490	1,480	1,480	1,510	1,470	1,490	1,460	1,450	1,460
12	1,500	1,440	1,460	1,510	1,480	1,490	1,480	1,460	1,460	1,470	1,450	1,460
13	1,500	1,460	1,490	1,500	1,400	1,470	1,460	1,440	1,450	1,470	1,460	1,470
14	1,460	1,420	1,440	1,470	1,380	1,450	1,470	1,440	1,450	1,480	1,460	1,460
15	1,440	1,420	1,430	1,480	1,460	1,470	1,530	1,440	1,480	1,500	1,480	1,490
16	1,440	1,430	1,430	1,490	1,470	1,480	1,480	1,440	1,450	1,500	1,470	1,490
17	1,440	1,420	1,430	1,490	1,430	1,470	1,460	1,450	1,460	1,470	1,440	1,450
18	1,430	1,420	1,420	1,470	1,440	1,450	1,470	1,450	1,450	1,440	1,440	1,440
19	1,430	1,390	1,420	1,470	1,450	1,460	1,480	1,450	1,470	1,600	1,440	1,500
20	1,460	1,410	1,440	1,470	1,390	1,450	1,480	1,450	1,460	1,600	1,560	1,580
21	1,470	1,440	1,460	1,460	1,380	1,440	1,490	1,460	1,470	1,580	1,510	1,520
22	1,500	1,460	1,480	1,550	1,460	1,510	1,480	1,460	1,470	1,510	1,420	1,460
23	1,520	1,490	1,500	1,550	1,530	1,540	1,470	1,460	1,470	1,430	1,420	1,430
24	1,510	1,490	1,500	1,550	1,320	1,500	1,470	1,450	1,460	1,440	1,430	1,440
25	1,490	1,480	1,490	1,470	1,440	1,450	1,460	1,450	1,460	1,500	1,440	1,460
26	1,500	1,490	1,500	1,450	1,240	1,390	1,470	1,450	1,460	1,470	1,430	1,450
27	1,510	1,480	1,490	1,440	1,400	1,430	1,470	1,460	1,470	1,460	1,430	1,450
28	1,510	1,470	1,500	1,450	1,420	1,430	1,470	1,460	1,460	1,470	1,450	1,460
29	1,500	1,480	1,490	1,430	1,410	1,420	1,460	1,450	1,460	1,460	1,450	1,450
30	1,500	1,460	1,470	1,430	1,420	1,420	1,470	1,450	1,460	1,470	1,450	1,460
31	---	---	---	1,420	1,410	1,420	1,450	1,430	1,430	---	---	---
Month	1,620	1,390	1,490	1,550	1,240	1,460	1,530	1,400	1,460	1,600	1,420	1,460