

04015330 KNIFE RIVER NEAR TWO HARBORS, MN

Northwestern Lake Superior Basin
Beaver-Lester Subbasin

LOCATION.--Lat 46°56'49", long 91°47'32" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.31, T.52 N., R.11 W., Lake County, MN, Hydrologic Unit 04010102, on right bank 600 ft downstream from bridge on U.S. Highway 61, 0.5 mi upstream from bridge on County Highway 102, in town of Knife River, 0.8 mi upstream from Lake Superior, and 7.8 mi southwest of Two Harbors.

DRAINAGE AREA.--83.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 640 ft above sea level (from topographic map).

REMARKS.--Records good to fair except those for estimated daily discharges, which are poor. Flow regulated intermittently by fish ladder operation just upstream of gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 24	1845	3,290	8.04
Jun 20	0045	*25,500	*12.81

Minimum discharge, 1.6 ft³/s, Sept. 7, gage height, 1.99 ft

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.8	10	e7.3	e6.3	e4.1	e3.1	66	38	156	30	11	3.4
2	7.6	10	e7.0	e6.2	e4.0	e3.2	65	55	111	28	9.6	3.1
3	7.9	10	e6.9	e5.8	e3.8	e3.1	59	60	85	30	8.6	3.2
4	7.6	9.9	e6.6	e5.6	e3.7	e3.1	52	58	68	27	11	3.1
5	7.4	10	e6.3	e5.8	e3.6	e3.0	45	50	58	24	15	2.9
6	7.4	10	e6.1	e6.0	e3.4	e3.1	38	45	48	22	11	2.7
7	7.4	10	e6.0	e5.8	e3.3	e3.1	34	41	43	31	9.3	2.3
8	7.3	10	e5.9	e5.6	e3.2	e3.2	46	38	42	25	9.7	2.5
9	7.8	9.7	e5.8	e5.9	e3.2	e3.6	44	33	45	20	8.8	3.0
10	7.6	10	e5.8	e6.0	e3.2	e4.8	39	29	35	17	8.8	3.8
11	7.7	9.2	e6.0	e5.8	e3.2	e23	31	25	38	15	8.1	3.5
12	7.8	9.1	e6.4	e5.6	e3.2	e93	27	22	37	14	7.1	3.2
13	9.8	e9.1	e6.6	e5.5	e3.2	e234	24	19	28	13	6.2	6.5
14	13	e9.1	e6.6	e5.4	e3.2	e435	25	17	37	12	5.8	5.4
15	12	e9.0	e6.6	e5.2	e3.2	e602	50	15	80	12	5.7	3.7
16	10	e8.9	e6.4	e5.2	e3.2	e724	1,060	14	65	11	6.3	3.3
17	9.4	e8.8	e6.2	e5.0	e3.2	e711	431	13	142	11	6.5	3.2
18	9.0	e8.7	e6.4	e4.9	e3.2	e652	345	15	353	10	6.5	2.8
19	9.2	e8.5	e6.3	e4.7	e3.2	e517	301	15	2,800	9.7	6.0	2.8
20	8.8	e8.3	e6.2	e4.6	e3.2	324	192	23	e11,900	9.1	5.9	2.9
21	8.9	e8.1	e6.2	e4.4	e3.2	236	138	44	3,050	8.8	5.2	3.0
22	8.6	e8.1	e6.2	e4.2	e3.1	194	105	36	1,240	8.0	4.5	3.7
23	9.4	e8.4	e6.1	e4.1	e3.1	206	86	39	492	7.9	4.8	3.7
24	11	e8.7	e6.2	e4.1	e3.1	170	73	1,680	366	9.5	6.1	4.0
25	11	e8.6	e6.6	e4.1	e3.1	127	67	1,400	197	20	7.7	3.7
26	11	e8.3	e7.0	e4.3	e3.1	89	64	491	115	29	6.4	3.4
27	10	e8.1	e7.0	e4.3	e3.1	72	55	454	74	19	5.3	3.4
28	10	e7.8	e6.8	e4.1	e3.1	65	48	901	57	14	4.7	3.5
29	9.8	e7.6	e6.7	e4.0	e3.1	55	42	747	43	11	4.3	3.5
30	10	e7.5	e6.5	e4.2	---	52	37	380	35	11	4.0	3.5
31	10	---	e6.5	e4.0	---	58	---	235	---	12	3.7	---
Total	282.2	269.5	199.2	156.7	95.5	5,672.3	3,689	7,032	21,840	521.0	223.6	102.7
Mean	9.10	8.98	6.43	5.05	3.29	183	123	227	728	16.8	7.21	3.42
Max	13	10	7.3	6.3	4.1	724	1,060	1,680	11,900	31	15	6.5
Min	7.3	7.5	5.8	4.0	3.1	3.0	24	13	28	7.9	3.7	2.3
Ac-ft	560	535	395	311	189	11,250	7,320	13,950	43,320	1,030	444	204
Cfsm	0.11	0.11	0.08	0.06	0.04	2.19	1.47	2.71	8.71	0.20	0.09	0.04
In.	0.13	0.12	0.09	0.07	0.04	2.52	1.64	3.13	9.72	0.23	0.10	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	90.5	73.7	21.9	10.3	11.7	79.1	358	153	113	72.8	32.7	64.5
Max	320	238	75.1	31.4	79.2	454	889	427	728	402	163	314
(WY)	(2008)	(1999)	(1999)	(1975)	(1998)	(2010)	(2001)	(1979)	(2012)	(1999)	(1988)	(1977)
Min	3.06	1.58	0.00	0.00	0.00	3.20	70.8	16.0	13.0	4.87	2.95	1.43
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(2008)	(2010)	(1976)	(1995)	(1988)	(1976)	(1976)

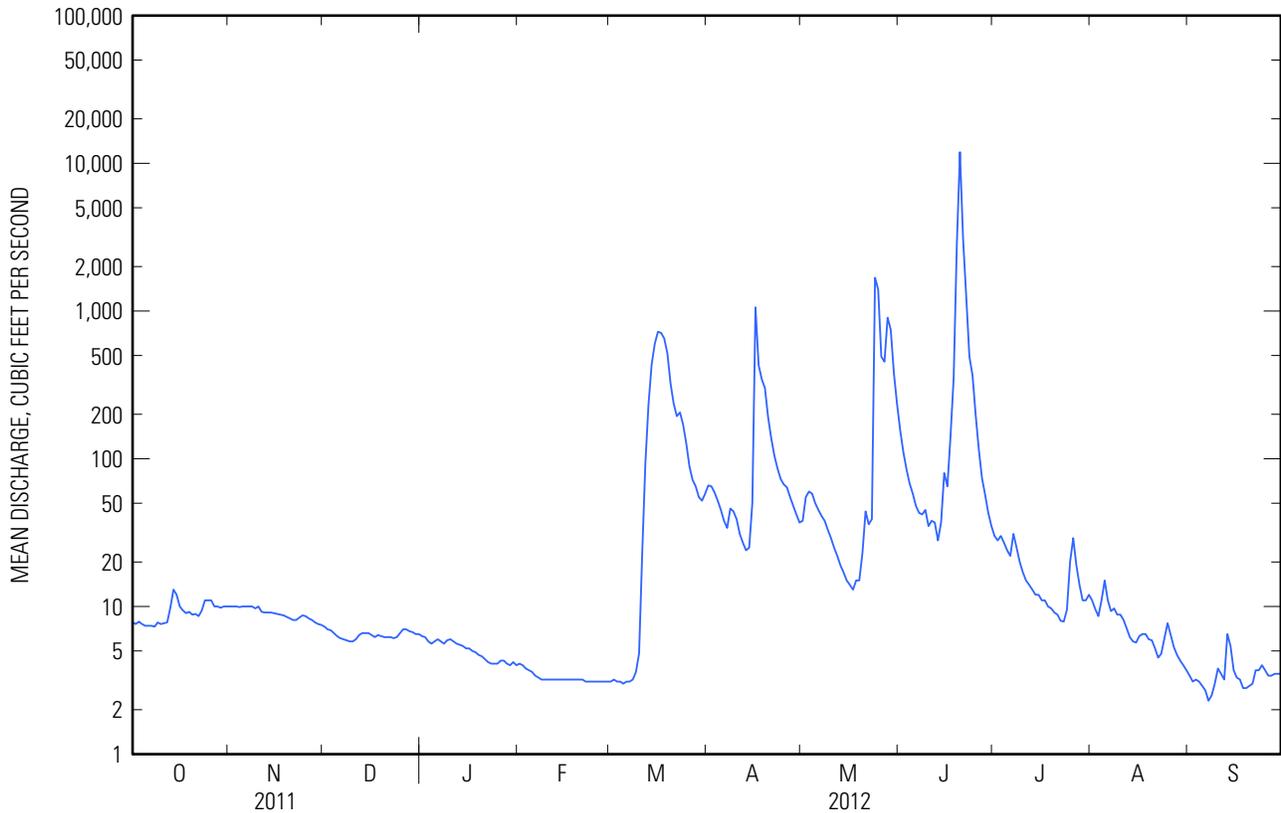
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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1974 - 2012	
Annual total	25,975.9		40,083.7			
Annual mean	71.2		110		90.3	
Highest annual mean					164	1999
Lowest annual mean					44.2	1977
Highest daily mean	1,910	Jun 22	11,900	Jun 20	11,900	Jun 20, 2012
Lowest daily mean	5.2	Sep 14	2.3	Sep 7	^a 0.00	Dec 2, 1976
Annual seven-day minimum	5.8	Sep 11	2.8	Sep 3	0.00	Dec 2, 1976
Maximum peak flow			^b 25,500	Jun 20	^b 25,500	Jun 20, 2012
Maximum peak stage			12.81	Jun 20	12.81	Jun 20, 2012
Instantaneous low flow			1.6	Sep 7	^a 0.00	Dec 2, 1976
Annual runoff (ac-ft)	51,520		79,510		65,430	
Annual runoff (cfsm)	0.851		1.31		1.08	
Annual runoff (inches)	11.56		17.84		14.68	
10 percent exceeds	188		130		216	
50 percent exceeds	17		8.8		21	
90 percent exceeds	6.9		3.2		4.5	

^a Many days, several years.

^b From rating extrapolation.



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WATER-QUALITY RECORDS

REMARKS.--This site is part of a statewide sediment study. The objectives of the study are to collect site specific data for streamflow, cross-sectional suspended sediment concentrations (SSC) and point samples of SSC, turbidity and water transparency at selected stream sites in Minnesota.

Beginning in 2012, continuous turbidity monitoring was incorporated at this site. This monitoring provides online web-based real-time continuous turbidity measurements. This data can be found at <http://waterdata.usgs.gov/mn/nwis/current/?type=flow>

The degree of accuracy of the records is stated here are explained at: [Link to documentation](http://wdr.water.usgs.gov/current/documentation.html#qw)

Turbidity record accuracy is undefined from May 17, 2012 to June 19, 2012, and rated excellent the remainder of the water year.

COOPERATION.--Minnesota Pollution Control Agency.

EXTREMES FOR PERIOD OF RECORD.--

TURBIDITY: Maximum, 1,340 FNU, June 19, 2012; minimum, <0.5 FNU, many days in 2012; maximum daily, 350 FNU, May 24, 2012; minimum daily, <0.5 FNU, many days in 2012.

EXTREMES FOR PERIOD OF DAILY RECORD.--

TURBIDITY: Maximum, 1,340 FNU, June 19, 2012; minimum, <0.5 FNU, many days in 2012; maximum daily, 350 FNU, May 24, 2012; minimum daily, <0.5 FNU, many days in 2012.

EXTREMES FOR CURRENT YEAR.--

TURBIDITY: Maximum, 1,340 FNU, June 19; minimum, <0.5 FNU, many days; maximum daily, 350 FNU, May 24; minimum daily, <0.5 FNU, many days.

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TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
 WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[<, less than; >, greater than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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 WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[<, less than; >, greater than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	4.7	2.7	2.9
19	---	---	---	---	---	---	---	---	---	3.9	2.4	2.9
20	---	---	---	---	---	---	---	---	---	8.9	2.8	5.0
21	---	---	---	---	---	---	---	---	---	13	8.6	10
22	---	---	---	---	---	---	---	---	---	9.0	6.3	7.4
23	---	---	---	---	---	---	---	---	---	66	5.4	9.9
24	---	---	---	---	---	---	---	---	---	840	66	350
25	---	---	---	---	---	---	---	---	---	370	65	150
26	---	---	---	---	---	---	---	---	---	68	33	46
27	---	---	---	---	---	---	---	---	---	90	34	60
28	---	---	---	---	---	---	---	---	---	190	49	110
29	---	---	---	---	---	---	---	---	---	88	35	56
30	---	---	---	---	---	---	---	---	---	37	23	29
31	---	---	---	---	---	---	---	---	---	26	18	21
Month	---	---	---	---	---	---	---	---	---	---	---	---

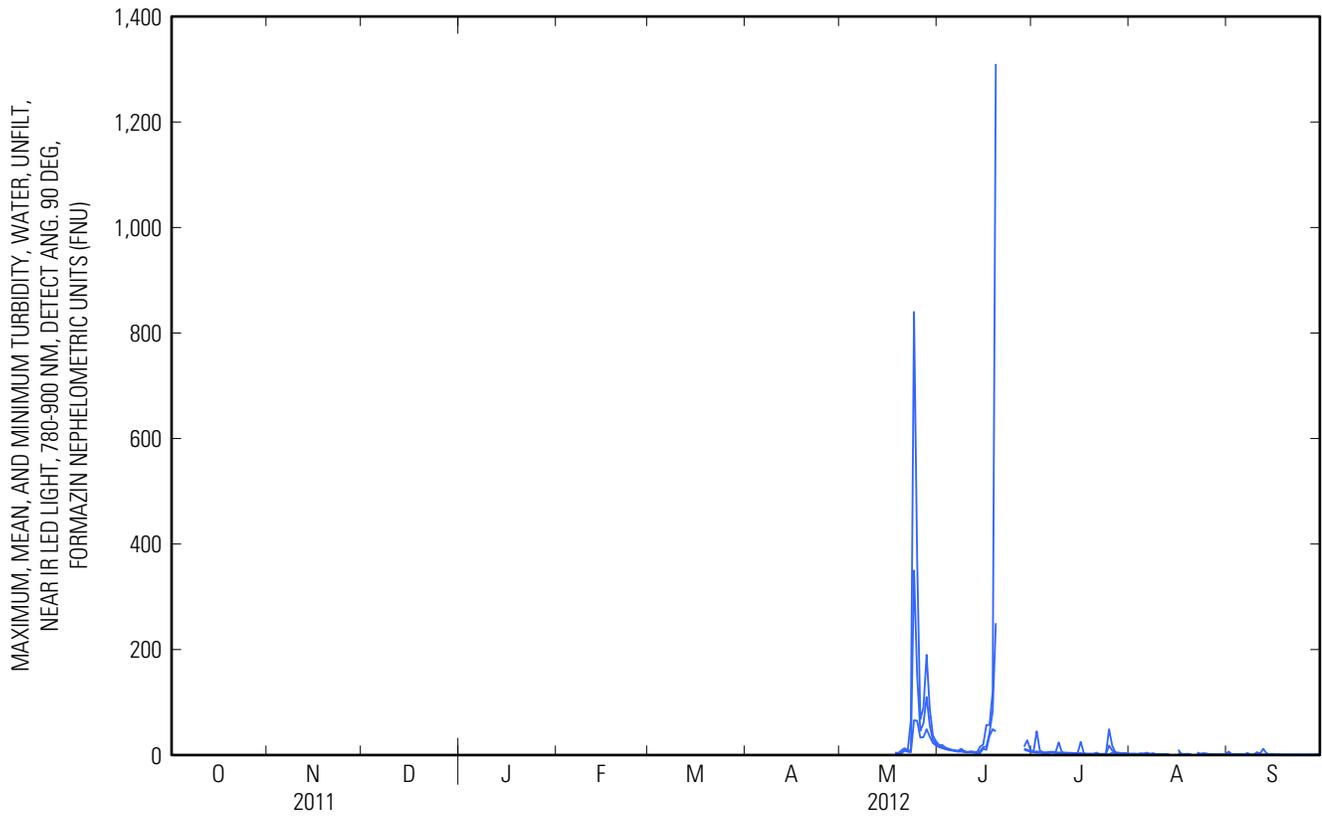
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WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[<, less than; >, greater than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	19	15	17	7.0	5.2	6.1	2.6	1.7	1.9	6.7	0.9	1.9
2	19	13	15	45	4.4	6.8	2.9	1.5	1.8	1.5	0.8	1.1
3	14	11	12	8.8	4.6	5.8	2.2	1.4	1.7	1.3	0.8	1.0
4	12	9.5	11	5.3	3.8	4.3	3.3	1.5	2.2	1.2	0.8	1.0
5	10	8.6	9.5	5.2	3.7	4.2	2.8	1.7	2.3	1.2	0.7	0.9
6	9.3	7.5	8.3	6.0	3.9	4.5	4.5	1.4	2.1	1.1	0.7	0.9
7	8.2	6.4	7.2	6.2	4.8	5.6	2.5	1.3	1.6	3.9	0.6	1.1
8	12	6.7	8.0	5.6	4.0	4.7	3.5	1.2	1.8	1.0	0.6	0.8
9	7.4	5.6	6.4	24	4.0	4.9	1.7	1.1	1.3	1.0	0.5	0.7
10	6.1	4.9	5.4	5.3	3.6	4.2	1.6	<0.0	1.3	5.4	0.5	1.2
11	7.0	5.2	5.8	4.6	3.4	3.8	1.5	1.0	1.2	2.6	0.6	0.9
12	6.3	4.5	5.4	4.3	3.0	3.5	1.8	1.0	1.3	12	0.6	1.6
13	5.0	3.9	4.4	4.1	2.7	3.1	1.7	1.0	1.1	3.7	0.5	1.2
14	16	3.9	7.8	3.8	2.6	3.0	---	---	---	1.4	0.6	0.9
15	20	12	15	3.5	2.5	2.9	---	---	---	2.1	0.5	0.7
16	57	10	16	25	2.4	3.7	10	1.7	4.0	1.1	0.5	0.6
17	57	36	42	3.1	2.1	2.4	2.3	1.3	1.6	1.4	0.5	0.6
18	120	49	83	2.5	1.8	2.2	2.0	1.1	1.4	0.7	<0.5	<0.5
19	>1,310	45	>250	2.7	1.8	2.0	2.4	0.9	1.2	1.0	<0.5	0.6
20	---	---	---	2.5	1.7	1.9	1.6	0.9	1.1	0.8	<0.5	<0.5
21	---	---	---	4.6	1.7	2.1	---	---	---	0.8	<0.5	<0.5
22	---	---	---	2.1	1.6	1.8	5.0	1.0	1.7	1.0	<0.5	<0.5
23	---	---	---	2.3	1.5	1.8	2.5	1.0	1.6	0.9	<0.5	<0.5
24	---	---	---	2.4	1.6	1.9	3.6	1.3	1.9	0.8	<0.5	<0.5
25	---	---	---	49	1.4	1.8	2.9	1.2	1.6	0.6	<0.5	<0.5
26	---	---	---	18	4.5	8.8	1.4	1.0	1.2	0.8	<0.5	<0.5
27	---	---	---	5.1	3.3	4.0	1.3	0.9	1.1	1.1	<0.5	<0.5
28	16	10	12	4.7	2.3	2.9	1.2	0.8	1.0	0.7	<0.5	<0.5
29	28	8.3	10	3.4	2.1	2.4	1.2	0.8	1.0	1.3	<0.5	<0.5
30	9.7	6.2	7.4	3.8	2.1	2.6	1.1	0.8	0.9	0.6	<0.5	<0.5
31	---	---	---	2.7	1.9	2.2	1.5	0.8	1.0	---	---	---
Month	---	---	---	49	1.4	4.1	---	---	---	12	0.5	0.8

04015330 KNIFE RIVER NEAR TWO HARBORS, MN—Continued



04015330 KNIFE RIVER NEAR TWO HARBORS, MN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 2

[NTRU, nephelometric turbidity ratio unit; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; >, greater than]

Date	Sample start time	Medium name	Temperature, air, °C (00020)	Specific conductance, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sample purpose (71999)
10-19-2011	0725	Surface water	--	--	220	5.6	--	Routine
10-19-2011	0730	Surface water	--	--	220	5.6	--	Routine
10-19-2011	0734	Surface water	--	--	220	5.6	--	Routine
04-17-2012	1013	Surface water	3.5	--	82	2.1	32	Routine
04-17-2012	1035	Surface water	--	--	--	--	--	Routine
04-17-2012	1154	Surface water	3.5	--	82	2.1	32	Routine
04-17-2012	1222	Surface water	3.5	--	82	2.1	32	Routine
05-02-2012	1300	Surface water	--	--	123	14.2	8.3	Routine
05-24-2012	1610	Surface water	--	--	76	11.7	970	Routine
05-24-2012	1630	Surface water	--	--	--	--	--	Routine
05-24-2012	1730	Surface water	--	--	76	11.7	970	Routine
05-24-2012	1745	Surface water	--	--	76	11.7	970	Routine
05-25-2012	1445	Surface water	--	--	70	14.2	72	Routine
05-25-2012	1545	Surface water	--	--	--	--	--	Routine
05-25-2012	1600	Surface water	--	--	70	14.2	72	Routine
05-25-2012	1630	Surface water	--	--	70	14.2	72	Routine
05-26-2012	0710	Surface water	11.9	--	78	12.3	36	Routine
05-26-2012	0730	Surface water	--	--	--	--	--	Routine
05-26-2012	0830	Surface water	11.9	--	78	12.3	36	Routine
05-26-2012	0845	Surface water	11.9	--	78	12.3	36	Routine
06-15-2012	1158	Surface water	22.1	--	133	18.3	14	Routine
06-15-2012	1200	Surface water	--	--	--	--	--	Routine
06-15-2012	1300	Surface water	22.1	--	133	18.3	14	Routine
06-15-2012	1340	Surface water	22.1	--	133	18.3	14	Routine
06-19-2012	1800	Surface water	13.6	121	99	16.5	160	Routine
06-19-2012	1900	Surface water	13.6	127	99	16.5	160	Routine
06-20-2012	0900	Surface water	16.6	--	59	15.6	> 1,000	Routine
06-20-2012	1355	Surface water	17.4	--	56	16.2	> 1,000	Routine
06-21-2012	0800	Surface water	--	--	--	--	--	Routine
06-21-2012	1505	Surface water	23.9	--	60	17.8	210	Routine
06-27-2012	1630	Surface water	--	--	108	22.5	12	Routine
08-10-2012	1020	Surface water	19.1	--	193	20.5	1.3	Routine
08-10-2012	1035	<i>QC sample - Surface water</i>	19.1	--	196	20.9	1.5	<i>Routine</i>

04015330 KNIFE RIVER NEAR TWO HARBORS, MN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 2

[NTRU, nephelometric turbidity ratio unit; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; >, greater than]

Date	Sample start time	Sampler type (84164)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)
10-19-2011	0725	Open-Mouth Bottle	--	2
10-19-2011	0730	Open-Mouth Bottle	88	6
10-19-2011	0734	Open-Mouth Bottle	--	5
04-17-2012	1013	Sampler US D-74	--	27
04-17-2012	1035	BL-3X3 BL-84, Cable	--	--
04-17-2012	1154	Sampler US D-74	95	33
04-17-2012	1222	Sampler US D-74	--	28
05-02-2012	1300	Open-Mouth Bottle	99	10
05-24-2012	1610	US WBH-96	--	621
05-24-2012	1630	Bedload-HS 6x6 1.4	--	--
05-24-2012	1730	US WBH-96	90	823
05-24-2012	1745	US WBH-96	--	973
05-25-2012	1445	Sampler US D-74	--	70
05-25-2012	1545	Bedload-HS 6x6 3.22	--	--
05-25-2012	1600	Sampler US D-74	92	79
05-25-2012	1630	Sampler US D-74	--	63
05-26-2012	0710	Sampler US D-74	--	30
05-26-2012	0730	Bedload-HS 6x6 3.22	--	--
05-26-2012	0830	Sampler US D-74	91	34
05-26-2012	0845	Sampler US D-74	--	31
06-15-2012	1158	Sampler US D-74	--	7
06-15-2012	1200	BL3X3 BLH-84	--	--
06-15-2012	1300	Sampler US DH-48	90	10
06-15-2012	1340	Sampler US D-74	--	8
06-19-2012	1800	US WBH-96	--	257
06-19-2012	1900	US WBH-96	--	872
06-20-2012	0900	US WBH-96	97	926
06-20-2012	1355	US WBH-96	98	767
06-21-2012	0800	Bedload-HS 6x6 3.22	--	--
06-21-2012	1505	US WBH-96	95	271
06-27-2012	1630	Sampler US DH-48	93	8
08-10-2012	1020	US WBH-96	65	2
08-10-2012	1035	US WBH-96	79	2