

Water-Data Report 2009

05286297 CEDAR CREEK NEAR EAST BETHEL, MN

Upper Mississippi-Crow-Rum Basin
Rum Subbasin

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2008 to current year.

PERIOD OF DAILY RECORD.--March 2008 to current year.

REMARKS.--Upper Mississippi River Basin nutrient enrichment (NEET) study sampling site. The objectives of this study are to determine the transport, chemical transformation, and retention of nutrients in the water column and surrounding sediments, and resulting effects on biological communities in stream reaches. Such cycling differs in different geologic and hydrologic settings, and is controlled, in large part, by ground-water and surface-water interactions. The study will be conducted from 2006 to 2009. Temperature records considered good for the entire period of record. Temperatures were checked with a thermometer periodically during period of record. Accuracy of records of water temperatures at sensor are within 1.0 C., although published to within 0.5 C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.0 C, July 15, 2008; maximum daily, 23.0 C, July 6, 2008; minimum, 0.0 C, April 1, 11, 12, 2008; minimum daily, 0.5 C, April 11, 2008.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0 C, July 15; maximum daily, 23.0 C, July 6; minimum, 0.0 C, April 1, 11, 12; minimum daily, 0.5 C, April 11.

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	12.0	9.5	10.5	---	---	---	---	---	---	---	---	---
2	12.5	8.5	10.5	---	---	---	---	---	---	---	---	---
3	12.0	8.5	10.5	---	---	---	---	---	---	---	---	---
4	11.5	7.5	9.5	---	---	---	---	---	---	---	---	---
5	11.0	9.0	9.5	---	---	---	---	---	---	---	---	---
6	14.0	10.0	12.0	---	---	---	---	---	---	---	---	---
7	13.0	11.5	12.5	---	---	---	---	---	---	---	---	---
8	12.5	9.5	11.0	---	---	---	---	---	---	---	---	---
9	11.0	9.0	10.0	---	---	---	---	---	---	---	---	---
10	11.0	9.0	10.0	---	---	---	---	---	---	---	---	---
11	13.5	9.5	11.5	---	---	---	---	---	---	---	---	---
12	14.5	12.5	13.5	---	---	---	---	---	---	---	---	---
13	14.5	11.5	14.0	---	---	---	---	---	---	---	---	---
14	11.5	9.0	10.0	---	---	---	---	---	---	---	---	---
15	11.0	8.5	9.5	---	---	---	---	---	---	---	---	---
16	9.5	6.5	8.0	---	---	---	---	---	---	---	---	---
17	9.0	6.5	8.0	---	---	---	---	---	---	---	---	---
18	10.0	6.5	8.0	---	---	---	---	---	---	---	---	---
19	10.5	8.0	9.0	---	---	---	---	---	---	---	---	---
20	10.5	8.0	9.5	---	---	---	---	---	---	---	---	---
21	8.0	5.5	7.0	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

Date	Time	Medium name	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, deg C (00020)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfl- lab, μS/cm @ 25 degC (90095)	Specif- ic conduc- tance, wat unfl- lab, μS/cm @ 25 degC (00095)	Temper- ature, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)
Oct										
22...	0800	Surface water	747	7.0	10.0	8.0	425	428	7.1	7.0
22...	0815	Plant tissue	--	7.0	10.0	8.0	--	430	7.1	--
22...	0816	Benthic invertebrates	--	7.0	10.0	8.0	--	430	7.1	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 2

Date	Number of sam- pling points, count (00063)	Sampler type, code (84164)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L as P (00665)	Sus- pended sed- iment concen- tration mg/L (80154)
Oct								
22...	10	Grab sample	.023	1.40	.016	.030	.072	17
22...	5	Periphyton substrate	--	--	--	--	--	--
22...	5	Benthic net	--	--	--	--	--	--