



Water-Data Report 2009

05383820 SPRING VALLEY CREEK ABOVE WASTEWATER TREATMENT PLANT NEAR SPRING VALLEY, MN

Upper Mississippi-Black-Root Basin
Root Subbasin

LOCATION.--Lat 43°41'20.1", long 92°22'51.1" referenced to North American Datum of 1983, Fillmore County, MN, Hydrologic Unit 07040008.

WATER-QUALITY RECORDS

REMARKS.--The U.S. Geological Survey and Minnesota Pollution Control Agency in collaboration with St. Cloud State University and University of St. Thomas collaborated on this study to measure the concentrations of endocrine active chemicals and pharmaceuticals in water samples collected from the effluents from wastewater treatment plants and at sites upstream and downstream of effluent discharge in Minnesota during 2009-2011.

COOPERATION.--Minnesota Pollution Control Agency, St. Cloud State University and University of St. Thomas.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 4

[Remark codes: <, less than.]

Date	Time	Medium name	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf lab, µS/cm @ 25 degC (90095)	Specif- ic conduc- tance, wat unf lab, µS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)
Sep 21...	1059	Surface water	728	18.8	10.6	7.8	446	613	14.0	1.5

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 4

[Remark codes: <, less than.]

Date	Number of sam- pling points, count (00063)	Sampler type, code (84164)	Chlor- ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Amm- onia + org-N, water, fltrd, mg/L as N (00623)	Amm- onia + org-N, water, unfltrd mg/L as N (00625)	Amm- onia + Nitrate water, fltrd, mg/L as N (00608)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	
Sep 21...	10	Grab sample	20.5	23.6	.18	.25	<.020	8.93	.035	.018	.017

05383820 SPRING VALLEY CREEK ABOVE WASTEWATER TREATMENT PLANT NEAR SPRING VALLEY, MN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

[Remark codes: <, less than.]

Date	Phos- phorus, water, unfltrd mg/L as P (00665)	Thiaben dazole, water, fltrd, µg/L (62801)	1,7-Di- methyl- Xan- thine, water, fltrd, µg/L (62030)	Acet- amino- phen, water, fltrd, µg/L (62000)	Albut- erol, water, fltrd, µg/L (62020)	Caf- feine, water, fltrd, µg/L (50305)	Carbam- azepine water, fltrd, µg/L (62793)	Codeine water, fltrd, µg/L (62003)	Cot- inine, water, fltrd, µg/L (62005)	De- hydro- nife- dipine, water, fltrd, µg/L (62004)	Diltia- zem, water, fltrd, µg/L (62008)	Diphen- hydra- mine, water, fltrd, µg/L (62796)	Sulfa- methox- azole, water, fltrd, µg/L (62021)
Sep 21...	.026	<.060	<.120	<.080	<.060	<.200	<.040	<.040	<.026	<.080	<.080	<.040	<.160

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009

Part 4 of 4

[Remark codes: <, less than.]

Date	Tri- meth- oprim, water, fltrd, µg/L (62023)	Warfar- in, water, fltrd, µg/L (62024)	Sus- sedi- ment concen- tration mg/L (80154)
Sep 21...	<.020	<.100	74