



Water-Data Report 2006

05372510 MISSISSIPPI RIVER BELOW LOCK AND DAM 4 AT ALMA, WI

Upper Mississippi-Black-Root Basin
Buffalo-Whitewater Subbasin

LOCATION.--Lat 44°18'41", long 91°54'52" referenced to North American Datum of 1983, Buffalo County, WI, Hydrologic Unit 07040003.

WATER-QUALITY RECORDS

REMARKS.--The Mississippi River Longitudinal Study is an integrated chemical and biological investigation of stream-bed sediment and multiple fish species at approximately 41 sites along the Mississippi River from Bemidji, Minn. to Winona, Wisc. during June and July, 2006. The objective of this integrated chemical and biological study is to determine concentrations of selected compounds in stream-bed sediment. Stream-bed sediment samples were collected and analyzed using established USGS techniques.

COOPERATION.--Minnesota Pollution Control Agency, St. Cloud State University, USGS National Research Program.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date | Time | Sample type | 1,4-Di-chloro-benzene solids, ug/kg (63163) | 1-Methyl-naphthalene solids, ug/kg (63165) | 2,6-Di-methyl-naphthalene solids, ug/kg (63167) | 2-Methyl-naphthalene solids, ug/kg (63168) | 3-beta-Copros-tanol solids, ug/kg (63170) | 3-Methyl-1H-indole solids, ug/kg (63171) | 3-tert-Butyl-4-hydroxy-anisole solids, ug/kg (63172) | 4-Cumyl-phenol solids, ug/kg (63173) | 4-n-Octyl-phenol solids, ug/kg (63174) | 4-Nonyl-phenol solids, ug/kg (63175) |
|-----------|------|--------------|---|--|---|--|---|--|--|--------------------------------------|--|--------------------------------------|
| Jul 18... | 1420 | Bed material | <30 | <30 | <30 | <30 | <300 | M | <90 | <30 | <30 | <450 |

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date | 4-tert-Octyl-phenol solids, ug/kg (63176) | 9,10-Anthra-quinone solids, ug/kg (63181) | Aceto-phenone solids, ug/kg (63178) | Acetyl hexaMe tetraH naphthalene solids, ug/kg (63179) | Anthra-cene solids, ug/kg (63180) | Atra-zine solids, ug/kg (63182) | BDE congenr 47 solids, ug/kg (63166) | Benzo-[a]-pyrene solids, ug/kg (63183) | Benzo-phenone solids, ug/kg (63184) | beta-Sito-sterol solids, ug/kg (63185) | beta-Stigma-sterol solids, ug/kg (63186) | Bis(2-ethyl-hexyl) phthal-ate solids, ug/kg (63187) | A-d3, surrog Sch WCS pct rcv (90735) |
|-----------|---|---|-------------------------------------|--|-----------------------------------|---------------------------------|--------------------------------------|--|-------------------------------------|--|--|---|--------------------------------------|
| Jul 18... | <30 | <30 | <90 | <30 | M | <60 | <30.0 | M | <30 | <300 | <300 | <150 | .0 |

05372510 MISSISSIPPI RIVER BELOW LOCK AND DAM 4 AT ALMA, WI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date | Brom- acil, solids, ug/kg (63189) | Camphor solids, ug/kg (63192) | Car- bazole, solids, ug/kg (63194) | Chlor- pyrifos solids, ug/kg (63195) | Chol- esterol solids, ug/kg (63196) | Deca- fluoro- bi- phenyl, surrog, Sch WCS | DEET, solids, ug/kg (63219) | Di- azinon, solids, ug/kg (63198) | Di- ethoxy- nonyl- phenol, solids, ug/kg (63200) | Di- ethoxy- octyl- phenol, solids, ug/kg (63201) | Di- ethyl phthal- ate, solids, ug/kg (63202) | D-Li- monene, solids, ug/kg (63203) | Ethoxy- octyl- phenol, solids, ug/kg (63206) |
|--------------|---|--|--|--|---|--|--------------------------------------|---|--|--|--|---|---|
| | | | | | | pct rcv (90737) | | | | | | | |
| Jul 18... | <300 | <30 | <30 | <30 | <150 | 34 | <60 | <30 | <600 | <30 | <60 | <30 | <150 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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| Date | Fluoran- thene, solids, ug/kg (63208) | Fluor- an- thene- d10, surrog, Sch WCS | HHCB, solids, ug/kg (63209) | Indole, solids, ug/kg (63210) | iso- phorone solids, ug/kg (63212) | Iso- propyl- benzene solids, ug/kg (63213) | Isoquin- oline, solids, ug/kg (63214) | Metola- chlor, solids, ug/kg (63218) | Mono- ethoxy- nonyl- phenol, solids, ug/kg (63221) | Naphth- alene, solids, ug/kg (63220) | p- Cresol, solids, ug/kg (63222) | Phenan- threne, solids, ug/kg (63224) | Phenol, solids, ug/kg (63225) |
|--------------|---|---|--------------------------------------|--|--|---|---|--|--|--|--|---|--|
| | | pct rcv (90738) | | | | | | | | | | | |
| Jul 18... | E10 | 89 | <30 | E30 | <30 | <60 | <60 | <30 | <300 | <30 | <150 | M | <30 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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| Date | Pro- meton, solids, ug/kg (63226) | Pyrene, solids, ug/kg (63227) | Tributy- phos- phate, solids, ug/kg (63231) | Tri- closan, solids, ug/kg (63232) | Tri- phenyl phos- phate, solids, ug/kg (63234) | Tris(2- butoxy- ethyl) phos- phate, solids, ug/kg (63229) | Tris(2- chloro- ethyl) phos- phate, solids, ug/kg (63230) | Tris- (diCl- i-Pr) phos- phate, solids, ug/kg (63235) |
|--------------|---|--|--|--|--|--|--|--|
| | | | | | | | | |
| Jul 18... | <30 | E10 | <30 | <30.0 | <30 | <90 | <60 | <60 |