



Water-Data Report 2006

**393658079321501 Local number Pre-0172**

Conemaugh Formation

Preston County, WV

LOCATION.--Lat 39°36'57.6", long 79°32'15.3" referenced to North American Datum of 1983, Preston County, WV, Hydrologic Unit 05020004.

**WATER-QUALITY RECORDS**

REMARKS.--During the period of April 19 to June 23, 2006, 30 wells were sampled as part of an ongoing study with the West Virginia Department of Environmental Protection-Division of Water and Waste Management (WV-DEP-DWWM) of ambient ground-water quality in West Virginia. Samples were collected from wells in the following hydrologic units: Cheat River (05020004), Shenendoah River (02070007), South Branch Potomac River (02070001), the Upper Kanawha River (05050006), and the northern section of the Ohio River (05030101). Sample analyses included field determinations, major ions, nutrients, microbiological indicators, metals, volatile organic compounds, and radon.

Since 1999, 30 wells have been selected and sampled annually to characterize the ambient quality of West Virginia's ground-water resources. Data for these samples are published in "Water Resources Data-West Virginia-Water Year XXXX, Water-Data Report WV-XX-01". The electronic versions of these reports can be found at the following url: <http://pubs.usgs.gov/wdr/#wv>.

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

Part 1 of 7

[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Time	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)	Turbidity white light, 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, deg C (00010)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, unfltrd recover-able, mg/L (00927)
May 24...	1050	65	2,310	>25	<1.0	705	6.4	62	4.5	96	10.8	5.24	1.24

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

Part 2 of 7

[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, unfltrd recover-able, mg/L (00929)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (90410)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide, water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat unfltrd mg/L (00500)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)
May 24...	1.16	6.9	<5	<1	<1	<1	E.02	10.7	E.06	20.2	54	57	<.04

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

Part 3 of 7

[Remark codes: &lt;, less than; &gt;, greater than; E, estimated.]

Date	Nitrite + nitrate water flt'd, mg/L as N (00631)	Nitrite water, flt'd, mg/L as N (00613)	Total nitro- gen, wat unfltrd by anal ysis, mg/L (62855)	Ortho- phos- phate, water, flt'd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Hydro- gen ion, water, flt'd, calcd, mg/L (00191)	Organic carbon, water, unfltrd mg/L (00680)	E coli, Defined Substr. Tech., water, MPN/ 100 mL (50468)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Total coli- form, Defined Tech., MPN/ 100 mL (50569)	Alum- inum, water, unfltrd recover- able, ug/L (01105)	Anti- mony, water, unfltrd ug/L (01097)	Arsenic water unfltrd ug/L (01002)
May 24...	.51	<.008	.57	<.006	<.004	.03187	.9	<1	<1	<1	476	<.2	.12

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

Part 4 of 7

[Remark codes: &lt;, less than; &gt;, greater than; E, estimated.]

Date	Barium, water, unfltrd recover- able, ug/L (01007)	Beryll- ium, water, unfltrd recover- able, ug/L (01012)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Mercury water, unfltrd recover- able, ug/L (71900)	Nickel, water, unfltrd recover- able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)	Thall- ium, water, unfltrd ug/L (01059)	Zinc, water, unfltrd recover- able, ug/L (01092)	1,1,1- Tri- chloro- ethane, water, unfltrd ug/L (34506)
May 24...	113	.28	.49	.44	38	1.98	245	<.010	6.93	.12	<.18	43	<.1

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

Part 5 of 7

[Remark codes: &lt;, less than; &gt;, greater than; E, estimated.]

Date	CFC-113 water unfltrd ug/L (77652)	1,1-Di- chloro- ethane, water, unfltrd ug/L (34496)	1,1-Di- chloro- ethene, water, unfltrd ug/L (34501)	1,2-Di- chloro- benzene water, unfltrd ug/L (34536)	1,2-Di- chloro- ethane, water, unfltrd ug/L (32103)	1,2-Di- chloro- propane water, unfltrd ug/L (34541)	1,3-Di- chloro- benzene water, unfltrd ug/L (34566)	1,4-Di- chloro- benzene water, unfltrd ug/L (34571)	Benzene water unfltrd ug/L (34030)	Bromo- di- chloro- methane water unfltrd ug/L (32101)	Chloro- benzene water unfltrd ug/L (34301)	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093)	Di- bromo- chloro- methane water unfltrd ug/L (32105)
May 24...	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2

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

Part 6 of 7

[Remark codes: &lt;, less than; &gt;, greater than; E, estimated.]

Date	Di-chloro- di-fluoro- methane wat unfiltered	Di-chloro- methane water unfiltered	Di-ethyl ether, water, unfiltered	Diisopropyl ether, water, unfiltered	Ethyl- benzene water unfiltered	Methyl tert- pentyl ether, water, unfiltered	meta- + para- Xylene, water, unfiltered	o- Xylene, water, unfiltered	Styrene water unfiltered	t-Butyl ethyl ether, water, unfiltered	Methyl t-butyl ether, water, unfiltered	Tetra- chloro- ethene, water, unfiltered	Tetra- chloro- methane water unfiltered
	ug/L (34668)	ug/L (34423)	ug/L (81576)	ug/L (81577)	ug/L (34371)	ug/L (50005)	ug/L (85795)	ug/L (77135)	ug/L (77128)	ug/L (50004)	ug/L (78032)	ug/L (34475)	ug/L (32102)
May 24...	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1	<.2

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

Part 7 of 7

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Date	Toluene water unfiltered	trans- 1,2-Di- chloro- ethene, water, unfiltered	Tri- bromo- methane water unfiltered	Tri- chloro- ethene, water, unfiltered	Tri- chloro- fluoro- methane water unfiltered	Tri- chloro- methane water unfiltered	Vinyl chlor- ide, water, unfiltered	Rn-222, water, unfiltered
	ug/L (34010)	ug/L (34546)	ug/L (32104)	ug/L (39180)	ug/L (34488)	ug/L (32106)	ug/L (39175)	pCi/L (82303)
May 24...	<.1	<.1	<.2	<.1	<.2	<.1	<.2	1,260