Water-Data Report 2006

375739081171801 Local number Fay-0275

Pennsylvanian aquifers
New River Formation

Fayette County, WV

LOCATION.--Lat 37°57'39.22", long 81°17'18.65" referenced to North American Datum of 1983, Fayette County, WV, Hydrologic Unit 05050006.

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)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)	Turbdty white light, det ang 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)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water unfltrd recoverable, mg/L (00916)
May													
30...	1040	21.25	8.76	1,585	>40	2.6	723	5.8	58	5.4	62	13.6	4.19

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 2 of 7
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Magnesium, water, unfltrd recoverable, mg/L (00927)	Potassium, water, unfltrd recoverable, mg/L (00937)	Sodium, water, unfltrd recoverable, mg/L (00929)	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 unf mg/L (00500)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)
May													
30...	2.60	1.27	2.2	7	9	<1	E.01	1.63	<.10	12.5	46	47	<.010

375739081171801 Local number Fay-0275—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 3 of 7
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Hydro-gen ion, water, fltrd, 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 30...	.95	<.002	1.05	E.005	E.004	.00401	.5	15	15	1,600	67	<.2	E.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 4 of 7
[Remark codes: <, less than; >, 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 30...	36.5	<.06	<.04	.24	79	E.05	1.8	<.010	.72	.25	<.18	3	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 5 of 7
[Remark codes: <, less than; >, 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 30...	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2

375739081171801 Local number Fay-0275—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 6 of 7
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Di-ethyl ether, water, unfltrd ug/L (81576)	Diiso-propyl ether, water, unfltrd ug/L (81577)	Ethyl-benzene water unfltrd ug/L (34371)	Methyl tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	o-Xylene, water, unfltrd ug/L (77135)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)
May 30...	<.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
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chlor-ide, water, unfltrd ug/L (39175)	Rn-222, water, unfltrd pCi/L (82303)
May 30...	<.1	<.1	<.2	<.1	<.2	<.1	<.2	190