Water-Data Report 2007

383414080273101 Local number Web-0241

Undefined Aquifer
Kanawha Formation

Webster County, WV

LOCATION.--Lat 38°34'14.0", long 80°27'30.7" referenced to North American Datum of 1983, Webster County, WV, Hydrologic Unit 05020001.

WATER-QUALITY RECORDS

REMARKS.--During the period of April 25 to June 7, 2007, 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: Coal (05050009), Elk (05050007), Lower Kanawha (05050008), North Branch Potomac (02070002), and Tygart Valley (05020001). 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 samples collected from 1999-2005 were published in "Water Resources Data-West Virginia-Water Year XXXX, Water-Data Report WV-XX-01". The electronic versions of these reports from 2001-2005 can be found at: http://pubs.usgs.gov/wdr/#wv. Data from 1999-2000 can be requested via email at dc_wv@usgs.gov. Data from 2006 can be found at: http://web10capp.er.usgs.gov/imf/sites/adr06/launch2.jsp.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water unfltrd recoverable, mg/L (00916)	Magnesium, water, unfltrd recoverable, mg/L (00927)
Jun 06...	1615	83	1,270	>30	<1.0	732	8.6	<1.0	7.0	180	13.9	10.1	3.70

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 7

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

Date	Potassium, water, unfltrd recoverable, mg/L (00937)	Sodium, water, unfltrd recoverable, mg/L (00929)	ANC, wat unf 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 unf mg/L (00500)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L (71846)
Jun 06...	1.03	7.4	44	81	99	<1	.03	12.3	.13	E.13	99	104	1.50

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 3 of 7
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Hydrogen 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 coliform, M-FC 0.7u MF col/ 100 mL (31625)	Total coliform, Defined Tech., MPN/ 100 mL (50569)	Aluminum, water, unfltrd recoverable, µg/L (01105)
Jun 06...	1.17	<.06	.004	1.20	.697	.227	.38	.00010	1.8	<1	<1	<1	4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 4 of 7
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Date	Antimony, water, unfltrd µg/L (01097)	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recoverable, µg/L (01007)	Beryllium, water, unfltrd recoverable, µg/L (01012)	Cadmium water, unfltrd µg/L (01027)	Chromium, water, unfltrd recoverable, µg/L (01034)	Iron, water, unfltrd recoverable, µg/L (01045)	Lead, water, unfltrd recoverable, µg/L (01051)	Manganese, water, unfltrd recoverable, µg/L (01055)	Mercury water, unfltrd recoverable, µg/L (71900)	Nickel, water, unfltrd recoverable, µg/L (01067)	Selenium, water, unfltrd µg/L (01147)	Thallium, water, unfltrd µg/L (01059)
Jun 06...	<.2	4.9	160	.07	<.02	E.33	17,100	<.06	256	<.010	.22	<.08	<.18

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 5 of 7
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Date	Zinc, water, unfltrd recoverable, µg/L (01092)	1,1,1-Trichloroethane, water, unfltrd µg/L (34506)	CFC-113 water, unfltrd µg/L (77652)	1,1-Dichloroethane, water, unfltrd µg/L (34496)	1,1-Dichloroethene, water, unfltrd µg/L (34501)	1,2-Dichlorobenzene water, unfltrd µg/L (34536)	1,2-Dichloroethane, water, unfltrd µg/L (32103)	1,2-Dichloropropane water, unfltrd µg/L (34541)	1,3-Dichlorobenzene water, unfltrd µg/L (34566)	1,4-Dichlorobenzene water, unfltrd µg/L (34571)	Benzene water, unfltrd µg/L (34030)	Bromodichloromethane water, unfltrd µg/L (32101)	Chlorobenzene water, unfltrd µg/L (34301)
Jun 06...	14.8	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1

383414080273101 Local number Web-0241—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 6 of 7
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Date	cis-1,2-Dichloroethene, water, unfltrd µg/L (77093)	Dibromochloromethane water, unfltrd µg/L (32105)	Dichlorodifluoromethane wat unf µg/L (34668)	Dichloromethane water, unfltrd µg/L (34423)	Diethyl ether, water, unfltrd µg/L (81576)	Diisopropyl ether, water, unfltrd µg/L (81577)	Ethylbenzene water, unfltrd µg/L (34371)	Methyl tert-pentyl ether, water, unfltrd µg/L (50005)	meta- + para-Xylene, water, unfltrd µg/L (85795)	o-Xylene, water, unfltrd µg/L (77135)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)
Jun 06...	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 7 of 7
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Date	Tetrachloroethene, water, unfltrd µg/L (34475)	Tetrachloromethane water, unfltrd µg/L (32102)	Toluene water, unfltrd µg/L (34010)	trans-1,2-Dichloroethene, water, unfltrd µg/L (34546)	Tribromomethane water, unfltrd µg/L (32104)	Trichloroethene, water, unfltrd µg/L (39180)	Trichlorofluoromethane water, unfltrd µg/L (34488)	Trichloromethane water, unfltrd µg/L (32106)	Vinyl chloride, water, unfltrd µg/L (39175)	Rn-222, water, unfltrd pCi/L (82303)
Jun 06...	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2	160