



Water-Data Report 2007

381614081382901 Local number Kan-0943

Undefined Aquifer
 Pottsville Formation
 Kanawha County, WV

LOCATION.--Lat 38°16'14.5", long 81°38'28.6" referenced to North American Datum of 1983, Kanawha County, WV, Hydrologic Unit 05050008.

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)	Depth to water level, feet below LSD (72019)	Altitude of land surface, feet (72000)	Pump or flow period to sampling, minutes (72004)	Turbidity light, 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Carbon dioxide, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, deg C (00010)
Apr 25...	1300	71.3	28.25	760	>38	5.1	740	2.3	1.3	13	8.2	367	13.6

WATER-QUALITY DATA

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 7

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

Date	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, unfltrd recover-able, mg/L (00929)	ANC, wat unfltrd 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 (00500)
Apr 25...	11.3	3.26	1.64	68.4	191	185	226	<1	.04	9.63	.38	<.18	226

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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	Residue on evap.	Ammonia water,	Ammonia water,	Nitrite + Nitrite	Nitrite	Total nitrogen,	Ortho-phosphate,	Ortho-phosphate,	Phosphorus,	Hydrogen ion,	Organic carbon,	E coli, Defined Substr.	Fecal coliform,
	at 180degC wat flt	Ammonia water, fltrd,	water, fltrd,	nitrate fltrd,	water, fltrd,	wat unfltrd,	phosphate, fltrd,	phosphate, fltrd,	water, unfltrd,	water, fltrd,	water, unfltrd,	Tech., MPN/ 100 mL	M-FC 0.7u MF col/ 100 mL
	(70300)	(71846)	(00608)	(00631)	(00613)	(62855)	(00660)	(00671)	(00665)	(00191)	(00680)	(50468)	(31625)
Apr 25...	248	.71	.555	<.06	<.002	.60	.325	.106	.131	.00001	1.2	<1	<1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 7

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

Date	Total coliform, Defined Tech., MPN/ 100 mL	Aluminum, water, unfltrd recover	Antimony, water, unfltrd	Arsenic, water, unfltrd	Barium, water, unfltrd	Beryllium, water, unfltrd	Cadmium, water, unfltrd	Chromium, water, unfltrd	Iron, water, unfltrd	Lead, water, unfltrd	Manganese, water, unfltrd	Mercury, water, unfltrd	Nickel, water, unfltrd
	(50569)	μg/L (01105)	μg/L (01097)	μg/L (01002)	μg/L (01007)	μg/L (01012)	μg/L (01027)	μg/L (01034)	μg/L (01045)	μg/L (01051)	μg/L (01055)	μg/L (71900)	μg/L (01067)
Apr 25...	<1	13	<.2	E.18	274	E.03	E.01	<.60	788	.73	34.8	<.010	.16

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 7

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

Date	Selenium, water, unfltrd	Thallium, water, unfltrd	Zinc, water, unfltrd	1,1,1-Tri-chloro-ethane, water, unfltrd	CFC-113, water, unfltrd	1,1-Di-chloro-ethane, water, unfltrd	1,1-Di-chloro-ethene, water, unfltrd	1,2-Di-chloro-benzene, water, unfltrd	1,2-Di-chloro-ethane, water, unfltrd	1,2-Di-chloro-propane, water, unfltrd	1,3-Di-chloro-benzene, water, unfltrd	1,4-Di-chloro-benzene, water, unfltrd	Benzene, water, unfltrd
	μg/L (01147)	μg/L (01059)	μg/L (01092)	μg/L (34506)	μg/L (77652)	μg/L (34496)	μg/L (34501)	μg/L (34536)	μg/L (32103)	μg/L (34541)	μg/L (34566)	μg/L (34571)	μg/L (34030)
Apr 25...	<.08	<.18	18.6	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1

381614081382901 Local number Kan-0943—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 7

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

Date	Bromo-di-chloro-methane water, unfltrd µg/L (32101)	Chloro-benzene water, unfltrd µg/L (34301)	cis-1,2-Di-chloro-ethene water, unfltrd µg/L (77093)	Di-bromo-chloro-methane water, unfltrd µg/L (32105)	Di-chloro-fluoro-methane wat unfltrd µg/L (34668)	Di-chloro-methane water, unfltrd µg/L (34423)	Di-ethyl ether, water, unfltrd µg/L (81576)	Diiso-propyl ether, water, unfltrd µg/L (81577)	Ethyl-benzene 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)
Apr 25...	.1	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 7

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Date	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	Tetra-chloro-ethene, water, unfltrd µg/L (34475)	Tetra-chloro-methane water, unfltrd µg/L (32102)	Toluene water, unfltrd µg/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd µg/L (34546)	Tri-bromo-methane water, unfltrd µg/L (32104)	Tri-chloro-ethene, water, unfltrd µg/L (39180)	Tri-chloro-fluoro-methane water, unfltrd µg/L (34488)	Tri-chloro-methane water, unfltrd µg/L (32106)	Vinyl chloride, water, unfltrd µg/L (39175)	Rn-222, water, unfltrd pCi/L (82303)
Apr 25...	<.1	<.2	<.1	<.2	<.1	<.1	<.2	<.1	<.2	2.8	<.2	.0