



Water-Data Report 2010

373536081494101 Local number Wyo-0271

Pennsylvanian aquifers
New River Formation

Wyoming County, WV

LOCATION.--Lat 37°35'36.2", long 81°49'40.8" referenced to North American Datum of 1983, Wyoming County, WV, Hydrologic Unit 05070101.

WATER-QUALITY RECORDS

REMARKS.--During the period of May 4 to June 21, 2010, nineteen groundwater wells and six springs were sampled as part of a cooperative program with the West Virginia Department of Environmental Protection-Division of Water and Waste Management in an effort to characterize groundwater quality in the state of West Virginia. These sample sites represent aquifers in a variety of environmental, topographic, and geologic settings across the state and will constitute a sentinel well network that will be sampled on a five year cycle for trend analysis of groundwater quality in West Virginia. Sample analyses may include field determinations, major ions, metals, nutrients, microbiological indicators, radon, volatile organic compounds, semi-volatile compounds, and pesticides.

Sample data for all sites in the sentinel well network are available at <http://ww.usgs.gov/projects/AmbientGW> in a Microsoft Excel spreadsheet and as individual Site Data Sheets.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; L, milligrams per liter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; mg/L, milligram per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; >, greater than; E, estimated]

Sample date-time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Pump or flow period prior to sampling, minutes (72004)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)
06-10-2010 1125	739	< 1.0	< 10	7.2	507	15.2	.2	> 40	281

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

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Sample date-time	Total solids dried at 105 °C, unfiltered, mg/L (00500)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Potassium, water, unfiltered, recoverable, mg/L (00937)	Sodium, water, unfiltered, recoverable, mg/L (00929)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Bromide, water, filtered, mg/L (71870)
06-10-2010 1125	275	24.9	5.79	1.35	60.4	126	130	158	.38

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 6

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Sample date-time	Carbon dioxide, water, unfiltered, mg/L (00405)	Carbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Hydrogen ion, water, unfiltered, calculated, mg/L (00191)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as NH ₄ (71846)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
06-10-2010 1125	16	< 1	80.2	.20	.00006	1.69	.306	.238	< .04

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 6

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Sample date-time	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Esche- richia coli, Defined Substrate Tech- nology, water, MPN/100 (50468)	Total coliform, Defined Substrate Tech- nology, water, MPN/100 (50569)	Aluminum, water, unfiltered, recoverable, µg/L (01105)
06-10-2010 1125	< .002	< .01	.054	.018	.106	.25	< 1	< 1	< 6

WATER-QUALITY DATA
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Part 5 of 6

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Sample date-time	Barium, water, unfiltered, recoverable, µg/L (01007)	Beryllium, water, unfiltered, recoverable, µg/L (01012)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, unfiltered, recoverable, µg/L (01034)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Mercury, water, unfiltered, recoverable, µg/L (71900)	Nickel, water, unfiltered, recoverable, µg/L (01067)
	06-10-2010 1125	541	.06	< .04	E .37	2,940	< .06	254	< .010

WATER-QUALITY DATA
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Part 6 of 6

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Sample date-time	Thallium, water, unfiltered, µg/L (01059)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Antimony, water, unfiltered, µg/L (01097)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, unfiltered, µg/L (01147)	Organic carbon, water, unfiltered, mg/L (00680)
	06-10-2010 1125	< .12	4.4	< .4	.48	< .10