

## Water-Data Report 2007

**410753074213801 Local number 310169- Institutional 2**

 Piedmont and Blue Ridge crystalline-rock aquifers  
 Precambrian Erathem

Passaic County, NJ

LOCATION.--Lat 41°07'53", long 74°21'38" referenced to North American Datum of 1927, West Milford Township, Passaic County, NJ, Hydrologic Unit 02030103I, on Marshall Hill Road.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 425 ft. Upper casing diameter 8 in, top of first opening 212 ft, bottom of last opening 425 ft.

DATUM.--Land-surface datum is 685 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--August 2007.

REMARKS.--Middle Proterozoic Metamorphic rock.

COOPERATION.--Water-quality samples were collected as part of the North New Jersey Radionuclide project, in cooperation with the New Jersey State Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 4

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

Date	Time	Sample type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	water, unfltrd field, std units (00400)	Specif- ic water, unfltrd conduct- ance, μS/cm (00095)	Temper- ature, wat unf air, 25 degC (00020)	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)
Aug 27...	1610	Environmental	3.1	751	8.1	7.7	260	29.0	11.8	31.0	109	5.93
	27...	1610 Replicate	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 4

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

Date	Silica, water, filtrd, mg/L (00955)	Sulfate water, filtrd, mg/L (00945)	Ammonia water, filtrd, mg/L (00608)	Nitrate + nitrite water mg/L (00631)	Nitrite water, filtrd, mg/L (00613)	Ortho- phosphate, water, filtrd, mg/L (00671)	E coli, Defined Substr. Tech., water, filtrd, MPN/ 100 mL (50468)	Total coli- form, Defined Tech., water, filtrd, MPN/ 100 mL (50569)	Arsen- ite, water, filtrd, μg/L (62453)	Arsenic water, filtrd, μg/L (01000)	Arsen- ite, water, filtrd, μg/L (62452)	Barium, water, filtrd, μg/L (01005)	Iron, water, filtrd, μg/L (01046)
Aug 27...	15.9	6.55	<.020	E.05	<.002	.029	<1	<1	.2	E.07	<.18	1.0	<6
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**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 4

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

Date	Mangan-	Stront-	Alpha radioac	Alpha radioac	Alpha radioac	Alpha radioac	Alpha radioac	Alpha radioac	Ra-226 2-sigma	Ra-226 water,	Ra-226, MDC,	Ra-226, water,	Ra-228 2-sigma
	ese, water, fltrd,	ium, water, fltrd,	2-sigma 30 day,	2-sigma 72 hr,	mdc, 30 day,	mdc, 72 hr,	wat flt	wat flt	water, fltrd,	water, gamma	water, fltrd,	gamma	water, unfltrd
	µg/L (01056)	µg/L (01080)	pCi/L (62640)	pCi/L (62637)	pCi/L (62641)	pCi/L (62638)	pCi/L (62639)	pCi/L (62636)	pCi/L (99324)	pCi/L (50911)	pCi/L (99325)	pCi/L (50837)	pCi/L (50840)
<b>Aug</b>													
27...	1.8	75.5	.43	1.9	1.0	.6	9	10	.980	.17	.470	E.31	.31
27...	--	--	.44	1.8	1.0	.6	9.4	10	.980	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 4 of 4

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

Date	Rn-222	Ra-228, count-	Ra-228, water, unfltrd	Rn-222, error,	Uranium
	Ra-228, water, gamma	count, unfltrd	water, unfltrd	water, fltrd,	natural
	pCi/L (99326)	pCi/L (50839)	pCi/L (82302)	pCi/L (82305)	µg/L (22703)
<b>Aug</b>					
27...	.980	E.25	360	7,160	13.9
27...	--	--	--	--	--