

Water-Data Report 2010

392123074534801 Local number 111153- Peaslee Wma MW47

 Northern Atlantic Coastal Plain aquifer system
 Cohansey Sand-Kirkwood Formation

Cumberland County, NJ

LOCATION.--Lat 39°21'23", long 74°53'48" referenced to North American Datum of 1927, Maurice River Township, Cumberland County, NJ, Hydrologic Unit 02040206.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 32.5 ft. Upper casing diameter 2 in; top of first opening 27.5 ft, bottom of last opening 32.5 ft.

DATUM.--Land-surface datum is 83 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 2000, 2005, and 2010.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 17. Undeveloped Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the New Jersey Department of Environmental Protection.

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

Part 1 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Flow rate, instantaneous, gallons per minute (00059)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)
04-12-2010	1000	768	27.50	9.6	89	.50	5.1	21	12.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 9

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Date	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	Dissolved solids dried at 180 °C, water, filtered, mg/L	Dissolved solids, sum of constituents, milligrams per liter	Hardness, water, mg/L as CaCO ₃	Calcium, water, mg/L	Magne sium, water, mg/L	Potassium, water, mg/L	Sodium, water, mg/L
	(72004)	(70300)						(00915)	(00925)	(00930)
04-12-2010	9.9	40	< 10	E 14	E 1.29	E .02	.297	.36	2.77	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 9

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Date	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)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, mg/L as N (00623)	Ammonia, water, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
	(00453)	(00940)						(00623)	(00608)	(00631)
04-12-2010	2	4	3.13	< .08	4.6	1.27	< .10	< .020	.06	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 9

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Date	Orthophosphates, water, filtered, mg/L as N (00613)		Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)
	(00671)	(01106)								
04-12-2010	< .002	< .008	15.3	14	.04	< .02	< .12	< 1.0	< 6	.18

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 9

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Date	Manga nese, water, filtered,	Mercury, water, filtered,	Nickel, water, filtered,	Zinc, water, filtered,	Antimony, water, filtered,	Arsenic, water, filtered,	Boron, water, filtered,	Selenium, water, filtered,	1,2-Di chloro ethane, water, unfiltered,	1,2- Dichloro propane, water, unfiltered,
	µg/L (01056)	µg/L (71890)	µg/L (01065)	µg/L (01090)	µg/L (01095)	µg/L (01000)	µg/L (01020)	µg/L (01145)	µg/L (32103)	µg/L (34541)
04-12-2010	2.7	<.010	.43	<2.8	E .03	E .02	9	.09	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	1,1,2-Tri chloro-							Bromo dichloro methane, water, unfiltered,	Chloro benzene, water, unfiltered,	
	1,4- Dichloro benzene, water, unfiltered,	1,1,1-Tri chloro ethane, water, unfiltered,	1,2,2- trifluoro ethane, water, unfiltered,	1,1-Di chloro ethane, water, unfiltered,	1,1-Di chloro ethene, water, unfiltered,	1,2- Dichloro benzene, water, unfiltered,	1,3- Dichloro benzene, water, unfiltered,			
µg/L (34571)	µg/L (34506)	µg/L (77652)	µg/L (34496)	µg/L (34501)	µg/L (34536)	µg/L (34566)	µg/L (34030)	µg/L (32101)	µg/L (34301)	
04-12-2010	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 7 of 9

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	cis-1,2-Di chloro ethene, water, unfiltered,	Dibromo chloro methane, water, unfiltered,	Di chloro difluoro methane, water, unfiltered,	Dichloro methane, water, unfiltered,	Diethyl ether, water, unfiltered,	Di iso propyl ether, water, unfiltered,	Ethyl benzene, water, unfiltered,	Methyl tert-butyl ether, water, unfiltered,	Methyl tert-pentyl ether, water, unfiltered,	m-Xylene plus p- xylene, water, unfiltered,
	µg/L (77093)	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)	µg/L (78032)	µg/L (50005)	µg/L (85795)
04-12-2010	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.2

WATER-QUALITY DATA
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Part 8 of 9

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Date	o-Xylene, water, unfiltered, recover mg/L (00681)	Styrene, water, unfiltered, recover µg/L (77135)	tert-Butyl ethyl ether, water, unfiltered, recover µg/L (77128)	Tetra ethene, water, unfiltered, recover µg/L (50004)	Tetra methane, water, unfiltered, recover µg/L (34475)	Toluene, water, unfiltered, recover µg/L (32102)	trans-1,2- Di chloro ethene, water, unfiltered, recover µg/L (34010)	Tribromo methane, water, unfiltered, recover µg/L (34546)	Tri chloro ethene, water, unfiltered, recover µg/L (32104)
	Organic carbon, water, filtered, able, µg/L (00681)								
04-12-2010	<.7	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.2

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WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 9 of 9

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Date	Tri chloro fluoro methane, water, unfiltered, recover able, µg/L (34488)	Tri chloro methane, water, unfiltered, recover able, µg/L (32106)	Vinyl chloride, water, unfiltered, recover able, µg/L (39175)	Alpha radioactivi ty, 30-day count, water, filtered, Th-230 curve, picocuries per liter (62639)	Alpha radioactivi ty, 72-hour count, water, filtered, Th-230 curve, picocuries per liter (62636)	Beta radioactivi ty, 30-day count, water, filtered, Cs-137 curve, picocuries per liter (62645)	Beta radioactivi ty, 72-hour count, water, filtered, Cs-137 curve, picocuries per liter (62642)
04-12-2010	<.2	4.6	<.2	R .17	.31	.8	.7