



Water-Data Report 2010

393744074244101 Local number 051497- Bass River Sf MW50

Northern Atlantic Coastal Plain aquifer system
 Cohansey Sand-Kirkwood Formation
 Burlington County, NJ

LOCATION.--Lat 39°37'44", long 74°24'41" referenced to North American Datum of 1927, Bass River Township, Burlington County, NJ, Hydrologic Unit 02040301.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 13.83 ft. Upper casing diameter 2 in; top of first opening 8.83 ft, bottom of last opening 13.83 ft.

DATUM.--Land-surface datum is 42 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 14. 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]

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)
05-03-2010	0945	756	7.50	5.2	47	.50	4.6	59	10.2

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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 (72004)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
05-03-2010	2.0	35	28	E 31	7.03	1.67	.688	.17	3.23

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, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
05-03-2010	< 1	2	5.49	< .08	3.9	13.7	E .06	< .020	< .04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 9

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Date	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	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)
05-03-2010	< .002	< .008	678	36	.20	.11	E .08	< 1.0	< 6	.09

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 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]

Date	Manganese, water, filtered, μg/L (01056)	Mercury, water, filtered, μg/L (71890)	Nickel, water, filtered, μg/L (01065)	Zinc, water, filtered, μg/L (01090)	Antimony, water, filtered, μg/L (01095)	Arsenic, water, filtered, μg/L (01000)	Boron, water, filtered, μg/L (01020)	Selenium, water, filtered, μg/L (01145)	1,2-Dichloro ethane, water, unfiltered, recoverable, μg/L (32103)	1,2-Dichloro propane, water, unfiltered, recoverable, μg/L (34541)
05-03-2010	45.2	<.010	1.5	E 1.5	<.05	.10	11	.07	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 9

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Date	1,4-Dichloro benzene, water, unfiltered, recoverable, μg/L (34571)	1,1,1-Tri chloro ethane, water, unfiltered, recoverable, μg/L (34506)	1,1,2-Tri chloro-1,2,2-trifluoro ethane, water, unfiltered, recoverable, μg/L (77652)	1,1-Di chloro ethane, water, unfiltered, recoverable, μg/L (34496)	1,1-Di chloro ethene, water, unfiltered, recoverable, μg/L (34501)	1,2-Dichloro benzene, water, unfiltered, recoverable, μg/L (34536)	1,3-Dichloro benzene, water, unfiltered, recoverable, μg/L (34566)	Benzene, water, unfiltered, recoverable, μg/L (34030)	Bromo dichloro methane, water, unfiltered, recoverable, μg/L (32101)	Chloro benzene, water, unfiltered, recoverable, μg/L (34301)
05-03-2010	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 7 of 9

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Date	cis-1,2-Di chloro ethene, water, unfiltered, recoverable, μg/L (77093)	Dibromo chloro methane, water, unfiltered, recoverable, μg/L (32105)	Di chloro difluoro methane, water, unfiltered, recoverable, μg/L (34668)	Dichloro methane, water, unfiltered, recoverable, μg/L (34423)	Diethyl ether, water, unfiltered, recoverable, μg/L (81576)	Di iso propyl ether, water, unfiltered, recoverable, μg/L (81577)	Ethyl benzene, water, unfiltered, recoverable, μg/L (34371)	Methyl tert-butyl ether, water, unfiltered, recoverable, μg/L (78032)	Methyl tert-pentyl ether, water, unfiltered, recoverable, μg/L (50005)	m-Xylene plus p-xylene, water, unfiltered, recoverable, μg/L (85795)
05-03-2010	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.2

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Part 8 of 9

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Date	Organic carbon, water, filtered, mg/L (00681)	o-Xylene, water, unfiltered, recover able, μg/L (77135)	Styrene, water, unfiltered, recover able, μg/L (77128)	tert-Butyl ethyl ether, water, unfiltered, recover able, μg/L (50004)	Tetra chloro ethene, water, unfiltered, recover able, μg/L (34475)	Tetra chloro methane, water, unfiltered, recover able, μg/L (32102)	Toluene, water, unfiltered, recover able, μg/L (34010)	trans-1,2-Di chloro ethene, water, unfiltered, recover able, μg/L (34546)	Tribromo methane, water, unfiltered, recover able, μg/L (32104)	Tri chloro ethene, water, unfiltered, recover able, μg/L (39180)
05-03-2010	.8	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.2	<.1

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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 radioactivity, 30-day count, water, filtered, Th-230 curve, picocuries per liter (62639)	Alpha radioactivity, 72-hour count, water, filtered, Th-230 curve, picocuries per liter (62636)	Beta radioactivity, 30-day count, water, filtered, Cs-137 curve, picocuries per liter (62645)	Beta radioactivity, 72-hour count, water, filtered, Cs-137 curve, picocuries per liter (62642)
05-03-2010	<.2	.8	<.2	1.9	2.0	1.2	1.7