Water-Data Report 2010

394108075250401 Local number 330939- Carneys Point MW22

Northern Atlantic Coastal Plain aquifer system
Marshalltown Formation

Salem County, NJ

LOCATION.--Lat 39°41′08″, long 75°25′04″ referenced to North American Datum of 1927, Carneys Point Township, Salem County, NJ, Hydrologic Unit 02040206.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 19.5 ft. Upper casing diameter 2 in; top of first opening 14.5 ft, bottom of last opening 19.5 ft.

DATUM.--Land-surface datum is 35 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 18. Agricultural 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 17

[%, 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)
05-19-2010	1030	760	7.00	3.9	38	.50	4.9	249	13.7

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 2 of 17
[%, 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	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 CaCO3 (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)
05-19-2010	4.4	45	151	E 133	73.1	19.1	6.18	6.63	5.48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 3 of 17
[%, 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	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO3 (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 SiO2 (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)
05-19-2010	1	2	23.4	E .05	4.3	29.9	.14	E .013	8.24

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 4 of 17
[%, 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	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)
05-19-2010	< .002	E .004	263	66	.36	.12	.22	1.6	< 6	.03

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 5 of 17
[%, 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-Dichloroethane, water, unfiltered, recoverable, µg/L (32103)	1,2-Dichloropropane, water, unfiltered, recoverable, µg/L (34541)
05-19-2010	29.4	< .010	3.6	17.5	< .05	.26	16	3.5	< .2	< .1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 6 of 17
[%, 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	1,4-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040)	2-Ethyl-6-methylaniline, water, filtered, recoverable, µg/L (61620)	3,4-Dichloroaniline, water, filtered, recoverable, µg/L (61625)	3,5-Dichloroaniline, water, filtered, recoverable, µg/L (61627)	4-Chloro-2-methylphenol, water, filtered, recoverable, µg/L (61633)	Acetochlor, water, filtered, recoverable, µg/L (49260)
05-19-2010	< .1	< .04	< .006	< .010	E .039	< .010	< .004	< .003	< .003	< .010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 7 of 17
[%, 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	Alachlor, water, filtered, recoverable, µg/L (46342)	alpha-Endosulfan, water, filtered, recoverable, µg/L (34362)	Atrazine, water, filtered, recoverable, µg/L (39632)	Azinphos-methyl oxygen analog, water, filtered, recoverable, µg/L (61635)	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)
05-19-2010	< .008	< .006	< .007	< .04	< .120	< .014	< .060	< .060	< .05

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 8 of 17
[%, 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	Chlor pyrifos, water, filtered, recover able, µg/L (38933)	cis-Permeth rin, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82687)	cis-Propicon azole, water, filtered, recover able, µg/L (79846)	Cyanazine, water, filtered, recover able, µg/L (04041)	Cyfluthrin, water, filtered, recover able, µg/L (61585)	Cyper methrin, water, filtered, recover able, µg/L (61586)	DCPA, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82682)	Desulfinyl fipronil amide, water, filtered, recover able, µg/L (62169)	Desulfinyl fipronil, water, filtered, recover able, µg/L (62170)	Diazinon, water, filtered, recover able, µg/L (39572)
05-19-2010	< .010	< .014	< .006	< .022	< .016	< .020	< .008	< .029	< .012	< .005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 9 of 17
[%, 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	Dichlorvos , water, filtered, recover able, µg/L (38775)	Dicro tophos, water, filtered, recover able, µg/L (38454)	Dieldrin, water, filtered, recover able, µg/L (39381)	Dimetho ate, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82662)	Di sulfoton sulfone, water, filtered, recover able, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82677)	Endo sulfan sulfate, water, filtered, recover able, µg/L (61590)	EPTC, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82668)	Ethion monoxon, water, filtered, recover able, µg/L (61644)	Ethion, water, filtered, recover able, µg/L (82346)
05-19-2010	< .02	< .08	< .009	< .006	< .01	< .04	< .014	< .002	< .02	< .008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 10 of 17
[%, 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	Ethoprop, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82672)	Fenami phos sulfone, water, filtered, recover able, µg/L (61645)	Fenami phos sulfoxide, water, filtered, recover able, µg/L (61646)	Fenami phos, water, filtered, recover able, µg/L (61591)	Fipronil sulfide, water, filtered, recover able, µg/L (62167)	Fipronil sulfone, water, filtered, recover able, µg/L (62168)	Fipronil, water, filtered, recover able, µg/L (62166)	Fonofos, water, filtered, recover able, µg/L (04095)	Hexa zinone, water, filtered, recover able, µg/L (04025)	Iprodione, water, filtered, recover able, µg/L (61593)
05-19-2010	< .016	< .053	< .08	< .03	< .013	< .024	< .018	< .004	< .008	< .014

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 11 of 17
[%, 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	Isofen phos, water, filtered, recover able, µg/L (61594)	lambda-Cyhalo thrin, water, filtered, recover able, µg/L (61595)	Malaoxon, water, filtered, recover able, µg/L (61652)	Malathion, water, filtered, recover able, µg/L (39532)	Metalaxyl, water, filtered, recover able, µg/L (61596)	Methida thion, water, filtered, recover able, µg/L (61598)	Methyl paraoxon, water, filtered, recover able, µg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82667)	Metola chlor, water, filtered, recover able, µg/L (39415)	Metribuzin , water, filtered, recover able, µg/L (82630)
05-19-2010	< .006	< .010	< .080	< .016	< .007	< .006	< .01	< .008	E .011	< .012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 12 of 17
[%, 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	Molinate, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82671)	Myclo butanil, water, filtered, recover able, µg/L (61599)	Oxy fluorfen, water, filtered, recover able, µg/L (61600)	Pendi methalin, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82683)	Phorate oxygen analog, water, filtered, recover able, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recover able, µg/L (82664)	Phosmet oxygen analog, water, filtered, recover able, µg/L (61668)	Phosmet, water, filtered, recover able, µg/L (61601)	Prometon, water, filtered, recover able, µg/L (04037)	Prometryn, water, filtered, recover able, µg/L (04036)
05-19-2010	< .003	< .010	< .010	< .012	< .03	< .020	< .05	< .034	< .01	< .006

394108075250401 Local number 330939- Carneys Point MW22—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 13 of 17
[%, 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	Propanil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82679)	Propargite, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82685)	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)	Tefluthrin, water, filtered, recoverable, µg/L (61606)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthylazine, water, filtered, recoverable, µg/L (04022)	Thiobencarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)
05-19-2010	< .010	< .02	< .004	< .006	< .03	< .010	< .04	< .02	< .01	< .016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 14 of 17
[%, 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	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)	Tri buphos, water, filtered, recoverable, µg/L (61610)	Tri fluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	1,1,1-Trichloroethane, water, unfiltered, recoverable, µg/L (34506)	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, µg/L (77652)	1,1-Dichloroethane, water, unfiltered, recoverable, µg/L (34496)	1,1-Dichloroethene, water, unfiltered, recoverable, µg/L (34501)	1,2-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34536)	1,3-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34566)	Benzene, water, unfiltered, recoverable, µg/L (34030)
05-19-2010	< .02	< .018	< .018	< .1	< .1	< .1	< .1	< .1	< .1	< .1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 15 of 17
[%, 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	Bromodichloromethane, water, unfiltered, recoverable, µg/L (32101)	Chlorobenzene, water, unfiltered, recoverable, µg/L (34301)	cis-1,2-Dichloroethene, water, unfiltered, recoverable, µg/L (77093)	Dibromochloromethane, water, unfiltered, recoverable, µg/L (32105)	Dichlorodifluoromethane, water, unfiltered, recoverable, µg/L (34668)	Dichloromethane, water, unfiltered, recoverable, µg/L (34423)	Diethyl ether, water, unfiltered, recoverable, µg/L (81576)	Di isopropyl ether, water, unfiltered, recoverable, µg/L (81577)	Ethylbenzene, water, unfiltered, recoverable, µg/L (34371)	Methyl tert-butyl ether, water, unfiltered, recoverable, µg/L (78032)
05-19-2010	< .1	< .1	< .1	< .2	< .2	< .2	< .2	< .2	< .1	< .2

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 16 of 17
[%, 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	Methyl tert-pentyl ether, water, unfiltered, recoverable, µg/L (50005)	m-Xylene plus p-xylene, water, unfiltered, recoverable, µg/L (85795)	Organic carbon, water, filtered, mg/L (00681)	o-Xylene, water, unfiltered, recoverable, µg/L (77135)	Styrene, water, unfiltered, recoverable, µg/L (77128)	tert-Butyl ethyl ether, water, unfiltered, recoverable, µg/L (50004)	Tetra chloro ethene, water, unfiltered, recoverable, µg/L (34475)	Tetra chloro methane, water, unfiltered, recoverable, µg/L (32102)	Toluene, water, unfiltered, recoverable, µg/L (34010)	trans-1,2-Di chloro ethene, water, unfiltered, recoverable, µg/L (34546)
05-19-2010	< .2	< .2	1.0	< .1	< .1	< .1	< .1	< .2	< .1	< .1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 17 of 17
[%, 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	Tribromo methane, water, unfiltered, recoverable, µg/L (32104)	Tri chloro ethene, water, unfiltered, recoverable, µg/L (39180)	Tri chloro fluoro methane, water, unfiltered, recoverable, µg/L (34488)	Tri chloro methane, water, unfiltered, recoverable, µg/L (32106)	Vinyl chloride, water, unfiltered, recoverable, 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)
05-19-2010	< .2	< .1	< .2	< .1	< .2	.8	1.5	7.3	6.4