



Water-Data Report 2007

**402403074210201 Local number 231365- MW133**

Northern Atlantic Coastal Plain aquifer system  
 Old Bridge Sand Member of Magothy Formation  
 Middlesex County, NJ

LOCATION.--Lat 40°24'03.4", long 74°21'02.3" referenced to North American Datum of 1983, Old Bridge Township, Middlesex County, NJ, Hydrologic Unit 02030105.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 37 ft. Upper casing diameter 2 in; top of first opening 32 ft, bottom of last opening 37 ft.

DATUM.--Land-surface datum is 40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 2003, 2007.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 9. Urban Land Use Indicator.

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

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

Part 1 of 13

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

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Turbidity white light, 90+/-30 corrctd (63676)	Barometric pressure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, µS/cm water, 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Apr 23...	0930	27.00	.50	35	.9	765	1.1	11	4.1	645	14.3	27	6.49

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

Part 2 of 13

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water field, mg/L as CaCO3 (39086)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
Apr 23...	2.65	2.21	85.4	<1	154	<.10	5.1	42.8	313	.38	.124	<.06	<.002

## 402403074210201 Local number 231365- MW133—Continued

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

Part 3 of 13

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

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Aluminum, water, fltrd, µg/L (01106)	Antimony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)
Apr 23...	E.005	1.6	5,000	<.06	1.2	75	.64	25	.05	.42	<.40	6,400	<.12

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

Part 4 of 13

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

Date	Manganese, water, fltrd, µg/L (01056)	Mercury, water, fltrd, µg/L (71890)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Thallium, water, fltrd, µg/L (01057)	Zinc, water, fltrd, µg/L (01090)	1-Naphthol, water, fltrd, 0.7u GF (49295)	2,6-Diethyl-aniline, water, fltrd, 0.7u GF (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline, water, fltrd, µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)
Apr 23...	89.7	<.010	16.2	.22	<.1	<.04	93.6	<.09	<.006	<.006	<.014	<.010	<.004

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

Part 5 of 13

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

Date	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF (82686)	Ben-flur-alin, water, fltrd, 0.7u GF (82673)	Carbaryl, water, fltrd, 0.7u GF (82680)	Carbo-furan, water, fltrd, 0.7u GF (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)
Apr 23...	<.012	<.005	<.006	<.005	<.011	<.007	<.04	<.080	<.010	<.060	<.020	<.06	<.005

## 402403074210201 Local number 231365- MW133—Continued

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

Part 6 of 13

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

Date	cis-Permethrin water fltrd 0.7u GF µg/L (82687)	cis-Propiconazole water, fltrd, µg/L (79846)	Cyanazine water, fltrd, µg/L (04041)	Cyfluthrin water, fltrd, µg/L (61585)	lambda-Cyhalothrin water, fltrd, µg/L (61595)	Cypermethrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf-inyl-fipronil water, fltrd, µg/L (62170)	Diazinon water, fltrd, µg/L (39572)	Dicrotophos water, fltrd, µg/L (38454)	Dieldrin water, fltrd, µg/L (39381)	Dimethoate water, fltrd 0.7u GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)
Apr 23...	<.010	<.013	<.018	<.053	<.014	<.046	<.003	<.012	<.005	<.08	<.009	<.006	<.01

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

Part 7 of 13

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

Date	Disulfoton water, fltrd 0.7u GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion water, fltrd, µg/L (82346)	Ethoprop water, fltrd 0.7u GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulf-oxide water, fltrd, µg/L (61646)	Fenamiphos water, fltrd, µg/L (61591)	Desulf-inyl-fipronil amide wat flt µg/L (62169)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil water, fltrd, µg/L (62166)
Apr 23...	<.02	<.022	<.002	<.02	<.016	<.012	<.053	<.04	<.03	<.029	<.013	<.024	<.016

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

Part 8 of 13

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

Date	Fonofos water, fltrd, µg/L (04095)	Hexazinone water, fltrd, µg/L (04025)	Iprodione water, fltrd, µg/L (61593)	Isofenphos water, fltrd, µg/L (61594)	Malaoxon water, fltrd, µg/L (61652)	Malathion water, fltrd, µg/L (39532)	Metolaxyl water, fltrd, µg/L (61596)	Methiathion water, fltrd, µg/L (61598)	Methyl parathion water, fltrd, µg/L (61664)	Methyl parathion water, fltrd 0.7u GF µg/L (82667)	Metolachlor water, fltrd, µg/L (39415)	Metribuzin water, fltrd, µg/L (82630)	Molinate water, fltrd 0.7u GF µg/L (82671)
Apr 23...	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02	<.008	<.010	<.012	<.003

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

Part 9 of 13

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

Date	Myclobutanil water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Pro-panil, water, fltrd, 0.7u GF µg/L (82679)	Propar-gite, water, fltrd, 0.7u GF µg/L (82685)	Sima-zine, water, fltrd, µg/L (04035)
Apr 23...	<.033	<.017	<.020	<.03	<.020	<.05	<.008	<.01	<.006	<.004	<.011	<.02	<.006

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

Part 10 of 13

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

Date	Tebu-thiuron water, fltrd, 0.7u GF µg/L (82670)	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos oxon sulfone, water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd, 0.7u GF µg/L (82675)	Ter-buthyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb water, fltrd, 0.7u GF µg/L (82681)	trans-Propi-cona-zole, water, fltrd, µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)	Tri-flur-alin, water, fltrd, 0.7u GF µg/L (82661)	1,1,1-Tri-chloro-ethane, unfltrd, µg/L (34506)	CFC-113 water, unfltrd, µg/L (77652)	1,1-Di-chloro-ethane, unfltrd, µg/L (34496)	1,1-Di-chloro-ethene, unfltrd, µg/L (34501)
Apr 23...	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035	<.009	<.1	<.1	<.1	<.1

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

Part 11 of 13

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

Date	1,2-Di-chloro-benzene water, unfltrd, µg/L (34536)	1,2-Di-chloro-ethane, water, unfltrd, µg/L (32103)	1,2-Di-chloro-propane, water, unfltrd, µg/L (34541)	1,3-Di-chloro-benzene, water, unfltrd, µg/L (34566)	1,4-Di-chloro-benzene, water, unfltrd, µg/L (34571)	Bromo-di-chloro-methane, water, unfltrd, µg/L (34030)	Bromo-di-chloro-methane, water, unfltrd, µg/L (32101)	Chloro-benzene, water, unfltrd, µg/L (34301)	cis-1,2-Di-chloro-ethene, water, unfltrd, µg/L (77093)	Di-bromo-chloro-methane, water, unfltrd, µg/L (32105)	Di-chloro-di-fluoro-methane, wat unf µg/L (34668)	Di-chloro-methane, water, unfltrd, µg/L (34423)	Di-ethyl ether, water, unfltrd, µg/L (81576)
Apr 23...	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2	<.2	<.2

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

Part 12 of 13

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

Date	Diiso- propyl ether, water, unfltrd µg/L (81577)	Ethyl- benzene water, unfltrd µg/L (34371)	Methyl tert- pentyl ether, water, unfltrd µg/L (50005)	meta- + para- Xylene, water, unfltrd µg/L (85795)	o- Xylene, water, unfltrd µg/L (77135)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	Tetra- chloro- ethene, water, unfltrd µg/L (34475)	Tetra- chloro- methane water, unfltrd µg/L (32102)	Toluene water, unfltrd µg/L (34010)	trans- 1,2-Di- chloro- ethene, water, unfltrd µg/L (34546)	Tri- bromo- methane water, unfltrd µg/L (32104)
Apr 23...	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1	<.2	<.1	<.1	<.2

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

Part 13 of 13

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

Date	Tri- chloro- ethene, water, unfltrd µg/L (39180)	Tri- chloro- fluoro- methane water, unfltrd µg/L (34488)	Tri- chloro- methane water, unfltrd µg/L (32106)	Vinyl chlor- ide, water, unfltrd µg/L (39175)	Di- chlor- vos, water, fltrd, µg/L (38775)	Alpha radioac 30 day, wat flt Th-230, pCi/L (62639)	Alpha radioac 72 hr, wat flt Th-230, pCi/L (62636)	Beta radioac 30 day, wat flt Cs-137, pCi/L (62645)	Beta radioac 72 hr, wat flt Cs-137, pCi/L (62642)
Apr 23...	<.1	<.2	<.1	<.2	<.01	16	44	9.0	13.0