

Water-Data Report 2007

403617074265601 Local number 390501- MW129

 Sand and gravel aquifers (glaciated regions)
 Stratified Drift

Union County, NJ

LOCATION.--Lat 40°36'17", long 74°26'56" referenced to North American Datum of 1927, Plainfield City, Union County, NJ, Hydrologic Unit 02030105.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 23 ft. Upper casing diameter 2 in; top of first opening 13 ft, bottom of last opening 23 ft.

DATUM.--Land-surface datum is 58 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 instantaneous	Pump or flow rate, gal/min	Turbidity white light, det ang 90+/-30	Barometric pressure, NTRU	Dissolved oxygen, mg/L	Dissolved oxygen, percent of saturation	pH, water, unfltrd field, std units	Conductance, µS/cm	Temperature, wat unf 25 degC	Temperature, water, deg C	Hardness, water, mg/L as CaCO3	Calcium water, fltrd, mg/L
	LSD (72019)	(00059)	(72004)	(63676)	(00025)	(00300)	(00301)	(00400)	(00095)	(00010)	(00900)	(00900)	(00915)
Apr 03...	0945	9.00	1.0	30	.8	765	3.6	33	6.8	491	12.0	190	48.3

**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)	Bicarbonate, wat flt incr. titr., mg/L (00453)	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 water, sum of constituents, mg/L (70301)	Residue on evap. at 180degC, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L (00623)	Ammonia water, fltrd, mg/L (00608)	Nitrate water, fltrd, mg/L (00631)
	(00925)	(00935)	(00930)	(00453)	(00940)	(00950)	(00955)	(00945)	(70301)	(70300)	(00623)	(00608)	(00631)
Apr 03...	17.9	1.04	20.5	114	53.0	E.08	17.9	40.4	275	294	.30	.184	3.58

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 13

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

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Alum-inum, water, fltrd, µg/L (01106)	Anti-mony, 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)
Apr 03...	.003	.043	1.9	E1.4	<.06	.48	59	<.06	62	<.04	1.2	<.40	3,950

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 13

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

Date	Lead, water, fltrd, µg/L (01049)	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, µg/L (49295)	2,6-Diethyl-aniline, water, fltrd, µg/L (82660)	2-Chloro-4'-6-diethyl-aniline, water, fltrd, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline, water, fltrd, µg/L (61620)
Apr 03...	<.12	148	<.010	.31	.54	<.1	<.04	E.41	<.09	<.006	<.006	<.014	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 13

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

Date	3,4-Dichloro-aniline, water, fltrd, µg/L (61625)	3,5-Dichloro-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-Endochlor-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	methyl-oxon, water, fltrd, µg/L (61635)	Azinophosphomethyl, water, fltrd, µg/L (82686)	Azinophos-methyl, water, fltrd, µg/L (82673)	Ben-flur-alin, water, fltrd, µg/L (82680)	Car-baryl, water, fltrd, µg/L (82674)	Carbo-furan, water, fltrd, µg/L (61636)
Apr 03...	<.004	<.012	<.005	<.006	<.005	<.011	<.007	<.04	<.080	<.010	<.060	<.020	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 13

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

Date	cis-Per-methrin Chlor-pyrifos water, fltrd, 0.7u GF µg/L (38933)	cis-Propi-conazole, water, fltrd, 0.7u GF µg/L (82687)	Cyana-zine, water, fltrd, 0.7u GF µg/L (79846)	Cyflu-thrin, water, fltrd, 0.7u GF µg/L (04041)	lambda-thrin, water, fltrd, 0.7u GF µg/L (61585)	Cyhalo-thrin, water, fltrd, 0.7u GF µg/L (61595)	Cyper-methrin DCPA, water, fltrd, 0.7u GF µg/L (61586)	Desulf-inyl-fipro-nil, water, fltrd, 0.7u GF µg/L (82682)	Diazi-non, water, fltrd, 0.7u GF µg/L (62170)	Dicrop-tophos, water, fltrd, 0.7u GF µg/L (38454)	Diel-drin, water, fltrd, 0.7u GF µg/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF µg/L (82662)	
Apr 03...	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	<.012	<.005	<.08	<.009	<.006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 13

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

Date	Disulf-oton sulfone water, fltrd, 0.7u GF µg/L (61640)	Disul-foton, water, fltrd, 0.7u GF µg/L (82677)	Endo-sulfan sulfate water, fltrd, 0.7u GF µg/L (61590)	EPTC, water, fltrd, 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd, 0.7u GF µg/L (61644)	Ethion, water, fltrd, 0.7u GF µg/L (82346)	Etho-prop, water, fltrd, 0.7u GF µg/L (82672)	Fenami-phos sulfone water, fltrd, 0.7u GF µg/L (61645)	Fenami-phos sulfide water, fltrd, 0.7u GF µg/L (61646)	Fenami-phos amide water, fltrd, 0.7u GF µg/L (61591)	Desulf-inyl-fipro-nil water, fltrd, 0.7u GF µg/L (62169)	Fipro-nil sulfide water, fltrd, 0.7u GF µg/L (62167)	Fipro-nil sulfone water, fltrd, 0.7u GF µg/L (62168)
Apr 03...	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053	<.04	<.03	<.029	<.013	<.024

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 8 of 13

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

Date	Fipro-nil, water, fltrd, 0.7u GF µg/L (62166)	Fonofos water, fltrd, 0.7u GF µg/L (04095)	Hexa-zinone, water, fltrd, 0.7u GF µg/L (04025)	Ipro-dione, water, fltrd, 0.7u GF µg/L (61593)	Isofen-phos, water, fltrd, 0.7u GF µg/L (61594)	Mala-oxon, water, fltrd, 0.7u GF µg/L (61652)	Mala-thion, water, fltrd, 0.7u GF µg/L (39532)	Meta-laxyl, water, fltrd, 0.7u GF µg/L (61596)	Methi-althion water, fltrd, 0.7u GF µg/L (61598)	Methyl-para-oxon, water, fltrd, 0.7u GF µg/L (61664)	Methyl-para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, 0.7u GF µg/L (39415)	Metribuzin, water, fltrd, 0.7u GF µg/L (82630)
Apr 03...	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02	<.008	<.010	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 9 of 13

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

Date	Molinate, water, fltrd 0.7u GF	Myclobutanil water, fltrd, 0.7u GF	Oxyfluorfen, water, fltrd, 0.7u GF	Pendi-methalin, water, oxon, water, fltrd	Phorate water, fltrd, 0.7u GF	Phorate water, fltrd	Phosmet water, fltrd, 0.7u GF	Phosmet water, fltrd, 0.7u GF	Prometon, water, fltrd, 0.7u GF	Prometryn, water, fltrd, 0.7u GF	Propyzamide, water, fltrd, 0.7u GF	Proppanil, water, fltrd, 0.7u GF	Propargite, water, fltrd, 0.7u GF
	µg/L (82671)	µg/L (61599)	µg/L (61600)	µg/L (82683)	µg/L (61666)	µg/L (82664)	µg/L (61668)	µg/L (61601)	µg/L (04037)	µg/L (04036)	µg/L (82676)	µg/L (82679)	µg/L (82685)
Apr 03...	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008	<.01	<.006	<.004	<.011	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 10 of 13

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

Date	Simazine, water, fltrd, 0.7u GF	Tebuthiuron water, fltrd, 0.7u GF	Tefluthrin, water, fltrd, 0.7u GF	Terbufos sulfone	Terbuoxon	Terbufos, water, fltrd	Terbutylazine, water, fltrd	Thiobencarb water, fltrd	Propiconazole, water, fltrd	Triphospha, water, fltrd	Trifluralin, water, fltrd	1,1,1-Trichloroethane, water, unfltrd	1,1-Dichloroethane, water, unfltrd
	µg/L (04035)	µg/L (82670)	µg/L (61606)	µg/L (61674)	µg/L (82675)	µg/L (04022)	µg/L (82681)	µg/L (79847)	µg/L (61610)	µg/L (82661)	µg/L (34506)	µg/L (77652)	µg/L (34496)
Apr 03...	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035	<.009	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 11 of 13

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

Date	1,1-Dichloroethene, water, unfltrd	1,2-Dichlorobenzene water, unfltrd	1,2-Dichloroethane, water, unfltrd	1,2-Dichloropropane water, unfltrd	1,3-Dichlorobenzene water, unfltrd	1,4-Dichlorobenzene water, unfltrd	Benzene	Bromoform methane	Chlorobenzene water, unfltrd	Chloroethene, water, unfltrd	cis-1,2-Dichloroethene, water, unfltrd	Dibromoethane, water, unfltrd	Di-chlorofluoromethane water, unfltrd	Di-chloromethane, water, unfltrd
	µg/L (34501)	µg/L (34536)	µg/L (32103)	µg/L (34541)	µg/L (34566)	µg/L (34571)	µg/L (34030)	µg/L (32101)	µg/L (34301)	µg/L (77093)	µg/L (32105)	µg/L (34668)	µg/L (34423)	
Apr 03...	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2	<.2	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 12 of 13

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

Date	Methyl												trans- 1,2-Di- chloro- ethene, water, unfltrd
	Di- ethyl ether, water, unfltrd	Diiso- propyl ether, water, unfltrd	Ethyl- benzene water, unfltrd	tert- pentyl ether, water, unfltrd	meta- + para- Xylene, water, unfltrd	o- Xylene, water, unfltrd	Styrene water, unfltrd	t-Butyl ether, water, unfltrd	Methyl ether, water, unfltrd	Tetra- chloro- ethene, water, unfltrd	Tetra- chloro- methane water, unfltrd	Toluene water, unfltrd	
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Apr 03...	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.1	<.2	<.1	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 13 of 13

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

Date	Tri-										Beta radioac	Beta radioac
	Tri- bromo- methane water, unfltrd	Tri- chloro- ethene, water, unfltrd	chloro- fluoro- methane water, unfltrd	Tri- chloro- methane water, unfltrd	Vinyl chlor- ide, water, unfltrd	Di- chlor- vos, water, unfltrd	Alpha radioac	Alpha radioac	Beta radioac	Beta radioac		
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	pCi/L	pCi/L	pCi/L	(32104)	(39180)
Apr 03...	<.2	<.1	<.2	<.1	<.2	<.01	.2	-.5	.8	1.4	(34488)	(32106)