

Water-Data Report 2006

402018074540301 Local number 210605 MW77 NJ Permit Number 27-16067

 Early Mesozoic basin aquifers
 Passaic Formation

Mercer County, NJ

LOCATION.--Lat 40°20'18", long 74°54'03" referenced to North American Datum of 1927, Hopewell Township, Mercer County, NJ, Hydrologic Unit 02040105, at Howell Living History Farm near Valley Rd and Woodens Ln.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 13.5 ft. Upper casing diameter 2 in; top of first opening 8.5 ft, bottom of last opening 13.5 ft.

DATUM.--Land-surface datum is 80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--WY 2001, WY 2006.

REMARKS.--NJDEP Watershed Management Area 11. Agricultural Land Use Indicator.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 11

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

Date	Time	Depth to water level, feet below	Pump or flow rate, instantaneous	Turbidity period	Barometric pressure, 90+/-30 det ang	Dissolved oxygen, mg/L	pH, water, unfltrd field, percent of saturation	Specific conductance, 25 degC	Temperature, wat unf std uS/cm	Hardness, water, deg C	Calcium water, mg/L as CaCO3
		LSD (72019)	gal/min (00059)	Flow instan-	period prior to sam-	NTRU (72004)	mm Hg (63676)	(00025)	(00300)	(00400)	(00095)
Jun 20...	1230	5.25	.30	180	1.5	757	1.9	19	6.1	262	14.9
											98
											25.9

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 11

[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 inc tit	Chloride, wat flt incr.	Fluoride, titr., water, field, mg/L (00453)	Silica, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00955)	Residue water, fltrd, sum of constituents (70301)	Residue water, evap. at 180degC (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Jun 20...	7.99	1.38	12.1	71	86	20.8	E.08	16.0	16.8	155	169	E.08 .017

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 11

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

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	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, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)
Jun 20...	2.58	<.002	.023	2.1	E1.2	<.20	.27	48	<.06	12	.07	.17	.6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 11

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

Date	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury, water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Thall- ium, water, fltrd, ug/L (01057)	Zinc, water, fltrd, ug/L (01090)	2,6-Di- ethyl- aniline water, fltrd, 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)
Jun 20...	<6	E.08	3.6	<.010	.89	.23	<.2	.11	1.5	<.006	E.028	<.006	<.005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 11

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

Date	alpha- HCH, water, fltrd, ug/L (34253)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd, ug/L (82686)	Ben- flur- alin, water, fltrd, ug/L (82673)	Car- baryl, water, fltrd, ug/L (04028)	Carbo- furan, water, fltrd, ug/L (82680)	Chlor- pyrifos, water, fltrd, ug/L (82674)	cis- Per- methrin water, fltrd, ug/L (38933)	Cyana- zine, water, fltrd, ug/L (82687)	DCPA, water, fltrd, ug/L (04041)	Desulf- inyl nil, water, fltrd, ug/L (82682)	
Jun 20...	<.005	.058	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 6 of 11

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

Date	Diazi-	Diel-	Disul-	EPTC,	Ethal-	Desulf-	Fipro-	Fipro-	Fipro-	Fonofos	Lindane	
	non, water, fltrd, ug/L (39572)	drin, water, fltrd, ug/L (39381)	foton, water, fltrd, 0.7u GF ug/L (82677)	water, water, fltrd, 0.7u GF ug/L (82668)	flur- alin, water, water, 0.7u GF ug/L (82663)	Etho- prop, water, water, 0.7u GF ug/L (82672)	inyl- fipro- nil amide, wat flt ug/L (62169)	nil sulfide water, fltrd, ug/L (62167)	sulfide water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)	water, fltrd, ug/L (04095)	water, fltrd, ug/L (39341)
Jun 20...	<.005	<.009	<.02	<.004	<.009	<.012	<.029	<.013	<.024	<.016	<.005	<.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 7 of 11

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

Date	Methyl para-thion,				Moli-nate,	Naprop-amide,	p,p'-DDE,	Para-thion,	Peb-ulate,	Pendi-meth-alin,	Phorate	Promo-ton,	
	Linuron water, fltrd, 0.7u GF ug/L (82666)	Malathion, water, fltrd, 0.7u GF ug/L (39532)	Metola-chlor, water, fltrd, 0.7u GF ug/L (82667)	Metri-buzin, water, fltrd, 0.7u GF ug/L (39415)	water, water, fltrd, 0.7u GF ug/L (82630)	water, water, fltrd, 0.7u GF ug/L (82671)	water, water, fltrd, 0.7u GF ug/L (82684)	water, water, fltrd, 0.7u GF ug/L (34653)	water, water, fltrd, 0.7u GF ug/L (39542)	water, water, fltrd, 0.7u GF ug/L (82669)	water, water, fltrd, 0.7u GF ug/L (82683)	water, water, fltrd, 0.7u GF ug/L (82664)	water, water, fltrd, 0.7u GF ug/L (04037)
Jun 20...	<.035	<.027	<.015	<.006	<.028	<.003	<.007	<.003	<.010	<.004	<.022	<.055	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 8 of 11

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

Date	Propy-zamide, water, fltrd, 0.7u GF ug/L (82676)	Propa-chlor, water, fltrd, 0.7u GF ug/L (04024)	Pro-panol, water, fltrd, 0.7u GF ug/L (82679)	Propar-gite, water, fltrd, 0.7u GF ug/L (82685)	Tebu-Sima-zine, thiuron water, water, fltrd, 0.7u GF ug/L (04035)	Terba-water, cil, water, fltrd, 0.7u GF ug/L (82670)	Terbu-fos, water, water, fltrd, 0.7u GF ug/L (82665)	Thio-bencarb, water, water, fltrd, 0.7u GF ug/L (82675)	Tri-allate, water, water, fltrd, 0.7u GF ug/L (82681)	Tri-flur-alin, water, water, fltrd, 0.7u GF ug/L (82678)	1,1,1-tri-chloro-ethane, water, unfltrd ug/L (82661)	CFC-113 water unfltrd ug/L (34506) (77652)	
	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	<.1	<.1
Jun 20...	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 9 of 11

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

Date	1,1-Di-chloro-ethane, water unfltrd	1,1-Di-chloro-ethene, water, unfltrd	1,2-Di-chloro-benzene	1,2-Di-chloro-ethane, water, unfltrd	1,2-Di-chloro-propane	1,3-Di-chloro-benzene	1,4-Di-chloro-benzene	Benzene	Bromo-di-chloro-methane	Chloro-benzene	water, unfltrd	cis-1,2-Di-chloro-ethene, water, unfltrd	Di-bromo-chloro-methane	Di-chloro-fluoromethane
	ug/L (34496)	ug/L (34501)	ug/L (34536)	ug/L (32103)	ug/L (34541)	ug/L (34566)	ug/L (34571)	ug/L (34030)	ug/L (32101)	ug/L (34301)	ug/L (77093)	ug/L (32105)	ug/L (34668)	
Jun 20...	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 10 of 11

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

Date	Di-chloro-methane, water unfltrd	Di-ethyl ether, water, unfltrd	Diiso-propyl ether, water, unfltrd	Ethyl-benzene	Methyl tert-pentyl	meta-+ para-ether, water, unfltrd	o-Xylene, water, unfltrd	Styrene	t-Butyl ethyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	Tetra-chloro-ethene, water, unfltrd	Tetra-chloro-methane	Toluene	
	ug/L (34423)	ug/L (81576)	ug/L (81577)	ug/L (34371)	ug/L (50005)	ug/L (85795)	ug/L (77135)	ug/L (77128)	ug/L (50004)	ug/L (78032)	ug/L (34475)	ug/L (32102)	ug/L (34010)	
Jun 20...	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.1	<.2	<.1	<.2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 11 of 11

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Date	trans-1,2-Di-chloro-ethene, water, unfltrd	Tri-bromo-methane	Tri-chloro-ethene, water, unfltrd	Tri-fluoro-methane	Tri-chloro-methane	Vinyl chloride, water, unfltrd	Alpha radioac	Alpha radioac	Beta radioac	Beta radioac
	ug/L (34546)	ug/L (32104)	ug/L (39180)	ug/L (34488)	ug/L (32106)	ug/L (39175)	pCi/L (62639)	pCi/L (62636)	pCi/L (62645)	pCi/L (62642)
Jun 20...	<.1	<.2	<.1	<.2	<.1	<.2	.8	.8	1.3	1.1