

## Water-Data Report 2009

**400533074405101 Local number 051477- Mansfield MW4**

 Northern Atlantic Coastal Plain aquifer system  
 Marshalltown Formation

Burlington County, NJ

LOCATION.--Lat 40°05'33", long 74°40'51" referenced to North American Datum of 1927, Mansfield Township, Burlington County, NJ, Hydrologic Unit 02040201.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 24 ft. Upper casing diameter 2 in; top of first opening 19 ft, bottom of last opening 24 ft.

DATUM.--Land-surface datum is 90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 1999, 2004, and 2009.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 20. 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 2008 TO SEPTEMBER 2009**

Part 1 of 13

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

Date	Time	Baro-metric pressure, mm Hg (00025)	Depth to water level, feet (LSD 72019)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	Flow rate, instantane-ous saturation gal/min (00059)	pH, water, unfltrd (00400)	Specif-ic conduc-tance, field, std units (00095)	Temper-ature, wat unf 25 degC (00010)	Turbdty white light, 90+/30 det ang (NTRU 63676)	Pump or flow period prior to sam-pling, minutes (72004)	Dis-solved solids, 180degC wat flt (mg/L 70300)	Hard-ness, water, mg/L as CaCO3 (00900)
Apr 06...	0930	746	18.00	5.6	55	.50	4.0	1,490	13.5	2.3	45	694	150

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 13

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

Date	Calcium water, filtrd, mg/L (00915)	Magnes-ium, water, filtrd, mg/L (00925)	Potas-sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	Sodium, CaCO3 (39086)	Alka-linity, wat flt inf tit	Chlor-ide, field, mg/L as	Fluor-ide, water, filtrd, mg/L	Silica, water, filtrd, mg/L as	Sulfate water, filtrd, mg/L as N	Ammonia + org-N, water, filtrd, mg/L as N	Ammonia water, filtrd, mg/L as N	Nitrate nitrite water, filtrd, mg/L as N
Apr 06...	5.76	33.6	6.66	163	<1	422	.13	15.4	7.15	.11	E.018	.19	<.002

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 13

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

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Alum-inum, water, fltrd, µg/L (01106)	Barium, water, fltrd, µg/L (01005)	Beryll-ium, water, fltrd, µg/L (01010)	Cadmium, water, fltrd, µg/L (01025)	Chrom-ium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)	Mercury, water, fltrd, µg/L (71890)	Nickel, water, fltrd, µg/L (01065)	Zinc, water, fltrd, µg/L (01090)
Apr 06...	E.007	9,080	490	1.72	2.06	1.2	1.5	2,490	4.36	253	<.010	86.1	321

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 13

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

Date	Antimony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Selen-ium, water, fltrd, µg/L (01145)	1,2-Di-chloro-ethane, water, unfltrd µg/L (32103)	1,2-Di-chloro-propane, water, unfltrd µg/L (34541)	1,4-Di-chloro-benzene, water, unfltrd µg/L (34571)	1-Naph-thol, water, fltrd, 0.7µ GF µg/L (49295)	2,6-Di-ethyl-aniline, water, fltrd, 0.7µ GF µg/L (82660)	2-Chloro-2',6'-diethyl-anilide, water, fltrd, 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 06...	<.04	.89	20	.37	<.2	<.1	<.1	<.04	<.006	<.010	<.014	<.010	<.004

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 5 of 13

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

Date	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, water, wat flt µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-Endo-sulfan, water, fltrd, µg/L (46342)	alpha-Atra-zine, water, fltrd, µg/L (34362)	Azin-phos-methoxon, water, fltrd, µg/L (39632)	Azin-phos-methyl, water, fltrd, 0.7µ GF µg/L (61635)	Ben-flur-alin, water, fltrd, 0.7µ GF µg/L (82686)	Car-baryl, water, fltrd, 0.7µ GF µg/L (82673)	Car-buryl, water, fltrd, 0.7µ GF µg/L (82680)	Car-bo-furan, water, fltrd, 0.7µ GF µg/L (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)
Apr 06...	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 6 of 13

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

Date	cis-Per-methrin water 0.7µ GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	Cyper-methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulf-inyl-fipro-nil, water, amide, wat flt µg/L (62169)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Di-chlor-vos, water, fltrd, µg/L (38775)	Dicrop-tophos, water, fltrd, µg/L (38454)	Diel-drin, water, fltrd, µg/L (39381)	Dimeth-oate, water, fltrd 0.7µ GF µg/L (82662)
Apr 06...	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012	<.005	<.02	<.08	<.009	<.006

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 7 of 13

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

Date	Disulf-oton sulfone water, fltrd, 0.7µ GF µg/L (61640)	Disul-foton, water, fltrd, 0.7µ GF µg/L (82677)	Endo-sulfan sulfate water, fltrd, 0.7µ GF µg/L (61590)	EPTC, water, fltrd, 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, 0.7µ GF µg/L (61644)	Ethion, water, fltrd, 0.7µ GF µg/L (82346)	Etho-prop, water, fltrd, 0.7µ GF µg/L (82672)	Fenami-phos sulfone water, fltrd, 0.7µ GF µg/L (61645)	Fenami-phos sulfide water, fltrd, 0.7µ GF µg/L (61646)	Fenami-phos sulfide water, fltrd, 0.7µ GF µg/L (61591)	Fipro-nil sulfide water, fltrd, 0.7µ GF µg/L (62167)	Fipro-nil sulfone water, fltrd, 0.7µ GF µg/L (62168)	Fipro-nil sulfone water, fltrd, 0.7µ GF µg/L (62166)
Apr 06...	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013	<.024	<.040

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 8 of 13

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

Date	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Cyhalothrin, water, fltrd, µg/L (61595)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	Methid-athion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)
Apr 06...	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014	<.016

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 9 of 13

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

Date	Moli-	Oxy-	Pendi-					Pro-	Propar-	Propy-			
	nate, water, filtrd 0.7µ GF	Myclo- butanil water, filtrd, 0.7µ GF	fluor- fen, water, filtrd, 0.7µ GF	meth- alin, water, filtrd 0.7µ GF	Phorate oxon, water, filtrd 0.7µ GF	Phorate oxon, water, filtrd 0.7µ GF	Phosmet oxon, water, filtrd 0.7µ GF	Prome- ton, water, filtrd 0.7µ GF	Prome- tryn, water, filtrd 0.7µ GF	panil, water, filtrd 0.7µ GF	gite, water, filtrd 0.7µ GF	zamide, water, filtrd 0.7µ GF	
Apr 06...	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 (82679)	µg/L (82685)	µg/L (82676)

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 10 of 13

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

Date	Sima-	Tebu-	Ter-			1,1,1-	1,1-Di-						
	zine, water, filtrd, 0.7µ GF	thiuron water, filtrd, 0.7µ GF	bufos Teflu- sulfone	terbu- oxon	Thio- buthyl- bencarb	Propi- conazole,	flur- alin,	chloro- ethane,	CFC-113				
Apr 06...	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)

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 11 of 13

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

Date	1,1-Di-	1,2-Di-	1,3-Di-	Bromo-	cis-	Di-	Di-	Di-	Di-	Diiso-			
	chloro- ethene, water, unfiltrd	chloro- benzene water, unfiltrd	chloro- benzene water, unfiltrd	di- chloro- methane	1,2-Di- chloro- ethene, water, unfiltrd	bromo- chloro- methane	di- chloro- methane	chloro- methane	chloro- methane	ethyl- ether, water, unfiltrd	propyl- ether, water, unfiltrd		
Apr 06...	µg/L (34501)	µg/L (34536)	µg/L (34566)	µg/L (34030)	µg/L (32101)	µg/L (34301)	µg/L (77093)	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 12 of 13

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

Date	Methyl				t-Butyl				Tetra-				trans-		
	Methyl	tert-pentyl	meta-+ para-Xylene	Organic carbon	o-Xylene	Styrene	t-Butyl	Tetra-ethyl	chloro-ether	chloro-ethene	chloro-methane	Toluene	1,2-Dichloro-ethene	Tri-bromo-methane	Tri-chloro-ethene
	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	(78032)	(50005)	(85795)	(00681)	(77135)	(77128)	(50004)	(34475)	(32102)	(34010)	(34546)	(32104)	(39180)		
Apr 06...	<.2	<.2	E.1	1.0	<.1	<.1	<.1	<.1	<.1	<.2	.1	<.1	<.2	<.1	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 13 of 13

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

Date	Tri-chloro-fluoro-methane	Tri-chloro-methane	Vinyl chloride,	Alpha radioac	Alpha radioac	Beta radioac	Beta radioac
	water, unfltrd	water, unfltrd	water, unfltrd	30 day, Th-230,	72 hr, Th-230,	30 day, Cs-137,	72 hr, Cs-137,
	µg/L	µg/L	µg/L	pCi/L	pCi/L	pCi/L	pCi/L
	(34488)	(32106)	(39175)	(62639)	(62636)	(62645)	(62642)
Apr 06...	<.2	<.1	<.2	50	113	34	37