

Water-Data Report 2009

392558075051901 Local number 110925- Union Lake Und02 MW27

 Northern Atlantic Coastal Plain aquifer system
 Cohansey Sand-Kirkwood Formation

Cumberland County, NJ

LOCATION.--Lat 39°25'44.9", long 75°05'07.7" referenced to North American Datum of 1983, Millville City, Cumberland County, NJ, Hydrologic Unit 02040206.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 26 ft. Upper casing diameter 2 in; top of first opening 24 ft, bottom of last opening 26 ft.

DATUM.--Land-surface datum is 50 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 17.Undeveloped Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the New Jersey Department of Environmental Protection and the New Jersey Geological Survey.

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

Part 1 of 7

[Remark codes: <, less than; R, radchem non-detect, below ssLc.]

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, instantaneous gal/min (00059)	pH, water, unfltrd (00400)	Specif-ic conductance, µS/cm @ 25 degC (00095)	Turbdty white light, 90+/-30 NTRU (63676)	Pump or flow period, minutes (72004)	Dis-solved solids, dried @ 180degC (70300)	Dis-solved solids, sum of constituents, mg/L (70301)	
Jul 06...	1200	755	13.40	.4	3	.35	5.7	50	12.3	.1	47	30	33

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

Part 2 of 7

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Date	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium, water, mg/L (00915)	Magnes-ium, water, mg/L (00925)	Potas-sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	Alka-linity, wat flt inf tit	Bicar-bonate, wat flt infl pt	Chlor-ide, titr., water, field, water, filtrd, mg/L	Fluor-ide, water, filtrd, mg/L	Silica, water, filtrd, mg/L SiO2 (00950)	Sulfate, water, filtrd, mg/L (00945)	Ammonia + org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)
Jul 06...	4	.77	.531	.37	1.91	9	11	3.60	<.08	5.6	7.49	.14	.119

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 7

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Date	Nitrate + nitrite water, fltrd, mg/L	Nitrite water, fltrd, mg/L	Ortho- phosphate, water, fltrd, mg/L	Alum- inum, water, fltrd, μg/L	Barium, water, fltrd, μg/L	Beryll- ium, water, fltrd, μg/L	Cadmium, water, fltrd, μg/L	Chrom- ium, water, fltrd, μg/L	Copper, water, fltrd, μg/L	Iron, water, fltrd, μg/L	Lead, water, fltrd, μg/L	Mangan- ese, water, fltrd, μg/L	Mercury water, fltrd, μg/L
	(00631)	(00613)	(00671)	(01106)	(01005)	(01010)	(01025)	(01030)	(01040)	(01046)	(01049)	(01056)	(71890)
Jul 06...	<.04	<.002	.034	55.3	3	<.02	.03	.47	<1.0	7,190	<.06	55.6	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 7

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Date	Nickel, water, fltrd, μg/L	Zinc, water, fltrd, μg/L	Antimony, water, fltrd, μg/L	Arsenic, water, fltrd, μg/L	Boron, water, fltrd, μg/L	Selen- ium, water, fltrd, μg/L	1,2-Di- chloro- ethane, water, unfltrd (32103)	1,2-Di- chloro- propane, water, unfltrd (34541)	1,4-Di- chloro- benzene, water, unfltrd (34571)	Tri- chloro- ethane, water, unfltrd (34506)	CFC-113 (77652)	1,1-Di- chloro- ethane, water, unfltrd (34496)	1,1-Di- chloro- ethene, water, unfltrd (34501)
	(01065)	(01090)	(01095)	(01000)	(01020)	(01145)							
Jul 06...	.17	<2.0	<.04	.67	16	<.06	<.2	<.1	<.1	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 7

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Date	1,2-Di- chloro- benzene water, unfltrd (34536)	1,3-Di- chloro- benzene water, unfltrd (34566)	Benzene water, unfltrd (34030)	Bromo- di- chloro- methane (32101)	cis- 1,2-Di- bromo- chloro- ethene, water, unfltrd (77093)	Di- chloro- methane, water, unfltrd (32105)	Di- chloro- methane, water, unfltrd (34668)	Di- ethyl ether, water, unfltrd (34423)	Di- propyl ether, water, unfltrd (81576)	Diiso- propyl ether, water, unfltrd (81577)	Ethyl- benzene water, unfltrd (34371)	Methyl- t-butyl ether, water, unfltrd (78032)	
Jul 06...	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2

392558075051901 Local number 110925- Union Lake Und02 MW27—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

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Date	Methyl	tert-	meta-	Organic	o-	t-Butyl	Tetra-	Tetra-	trans-	1,2-Di-	Tri-	Tri-	Tri-
	pentyl	+ para-	Xylene,	carbon,	Xylene,	Styrene	ethyl	chloro-	chloro-	chloro-	bromo-	chloro-	fluoro-
	water,	ethene,	methane	Toluene	water,	water,	water,						
	unfltrd	unfltrd	fltrd,	unfltrd	unfltrd	unfltrd	unfltrd	ether,	water,	water,	unfltrd	unfltrd	unfltrd
	μg/L	μg/L	mg/L	μg/L									
	(50005)	(85795)	(00681)	(77135)	(77128)	(50004)	(34475)	(32102)	(34010)	(34546)	(32104)	(39180)	(34488)

Jul													
06...	<.2	<.2	2.3	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.2	<.1	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 7

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Date	Tri-	Vinyl	Alpha	Alpha	Beta	Beta
	chloro-	chlor-	radioac	radioac	radioac	radioac
	methane	ide,	30 day,	72 hr,	30 day,	72 hr,
	water,	water,	wat flt	wat flt	wat flt	wat flt
	unfltrd	unfltrd	Th-230,	Th-230,	Cs-137,	Cs-137,
	μg/L	μg/L	pCi/L	pCi/L	pCi/L	pCi/L
	(32106)	(39175)	(62639)	(62636)	(62645)	(62642)

Jul						
06...	<.1	<.2	.42	.5	R.2	R.4