

## Water-Data Report 2009

**392920075011901 Local number 110931- Vineland Ou02 MW40**

Northern Atlantic Coastal Plain aquifer system  
Cohansey Sand-Kirkwood Formation

Cumberland County, NJ

LOCATION.--Lat 39°29'19.8", long 75°01'16.7" referenced to North American Datum of 1983, Vineland City, Cumberland County, NJ, Hydrologic Unit 02040206.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 51 ft. Upper casing diameter 2 in; top of first opening 49 ft, bottom of last opening 51 ft.

DATUM.--Land-surface datum is 114 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. Urban 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 14

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

Date	Time	Medium name	Sample type	Baro-metric pressure, mm Hg (00025)	Depth to water level, feet below LSD (72019)	Disolved oxygen, mg/L (00300)	Disolved oxygen, percent of saturation (00301)	Flow rate, instantaneous gal/min (00059)
Jul 15...	1220	QC sample - Artificial	Ambient Blank	--	--	--	--	--
15...	1225	Ground water	Regular	764	40.20	7.2	74	.19

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

Part 2 of 14

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

pH, water, unfiltrd field, std units	Specif- ic conduc- tance, wat unf µS/cm @ water, 25 degC	Turbdty white light, det ang 90+/>30	Pump or flow period prior to sam- pling, corrcrd	Dis- solved solids 180degC	Hard- ness, dried @ 180degC	Magnes- ium, Calcium water, water, water, water, water, water,	Potas- sium, Sodium, water, water, water, water, water,	Alka- linity, wat flt inf tit field, Chlor- ide, water,				
Date	(00400) (00095)	(00010)	(NTRU) (63676)	(mg/L) (72004)	(mg/L as CaCO3)	(mg/L) (00900)	(mg/L) (00915)	(mg/L) (00925)	(mg/L) (00935)	(mg/L) (00930)	(mg/L) (39086)	(mg/L) (00940)
Jul 15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	4.4	357	16.8	.6	55	196	38	7.19	4.70	2.96	41.2	<1

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

Part 3 of 14

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

Date	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as (00955)	Sulfate water, filtrd, mg/L (00945)	Ammonia		Nitrate		Ortho- phos- phate,		Alum- inum, water, filtrd, µg/L (01106)	Barium, water, filtrd, µg/L (01005)	Beryll- ium, water, filtrd, µg/L (01010)	Cadmium water, filtrd, µg/L (01025)	Chrom- ium, water, filtrd, µg/L (01030)
				+ org-N, water, mg/L (00623)	Ammonia water, mg/L (00608)	nitrite water, mg/L (00631)	Nitrite water, mg/L (00613)	as N (00631)	as P (00671)					
Jul														
15...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	E.05	6.8	10.4	E.07	<.020	2.95	<.002	E.005	367	366	.21	3.47	.34	

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

Part 4 of 14

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

Date	Copper, water, filtrd, µg/L (01040)	Iron, water, filtrd, µg/L (01046)	Lead, water, filtrd, µg/L (01049)	Mangan- ese, water, µg/L (01056)		Mercury water, µg/L (71890)	Nickel, water, µg/L (01065)	Zinc, water, µg/L (01090)	Anti- mony, water, µg/L (01095)	Arsenic water, µg/L (01000)	Boron, water, filtrd, µg/L (01020)	Selen- ium, water, unfiltrd µg/L (01145)	1,2-Di- chloro- ethane, water, µg/L (32103)	1,2-Di- chloro- propane µg/L (34541)
				Mangan- ese, water, µg/L (01056)	Mercury water, µg/L (71890)									
Jul														
15...	--	--	--	--	--	--	--	--	--	--	--	<.2	<.1	
15...	1.9	12	.20	59.1	.182	4.9	12.8	<.04	.29	30	1.4	<.2	<.1	

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

Part 5 of 14

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

Date	1,4-Di- chloro- benzene water, unfiltrd µg/L (34571)	1-Naph- thol, water, filtrd, µg/L (49295)	2,6-Di- ethyl- aniline water, filtrd, µg/L (82660)	2-Chloro- -2',6'- diethyl CIAT, acet-anilide water, filtrd, µg/L (61618)	2- Ethyl- 6- methyl- aniline water, filtrd, µg/L (04040)	3,4-Di- chloro- aniline water, filtrd, µg/L (61620)	3,5-Di- chloro- aniline water, filtrd, µg/L (61625)	4- Chloro- 2- methyl- phenol, water, filtrd, µg/L (61627)	Aceto- chlor, water, filtrd, µg/L (61633)	Ala- chlor, water, filtrd, µg/L (49260)	alpha- Endo- sulfan, water, filtrd, µg/L (46342)	Atra- zine, water, filtrd, µg/L (34362)	Atra- zine, water, filtrd, µg/L (39632)	
				2,6-Di- ethyl- aniline water, filtrd, µg/L (61618)	2-Chloro- -2',6'- diethyl CIAT, acet-anilide water, filtrd, µg/L (04040)									
Jul														
15...	<.1	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.1	<.04	<.006	<.010	<.014	<.010	<.004	<.004	<.005	<.010	<.008	<.006	<.007	

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

Part 6 of 14

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

Date	Azin-phos-methyl water, filtrd, 0.7µ GF µg/L (61635)	Azin-phos-methyl, water, filtrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, filtrd 0.7µ GF µg/L (82673)	Car-baryl, water, filtrd 0.7µ GF µg/L (82680)	Carbo-furan, water, filtrd 0.7µ GF µg/L (82674)	Chlor-pyrifos oxon, water, filtrd, 0.7µ GF µg/L (61636)	Cis-Permethrin Chlor-pyrifos water, filtrd, 0.7µ GF µg/L (38933)	Cis-Propiconazole, water, filtrd, 0.7µ GF µg/L (82687)	Cyana-zine, water, filtrd, 0.7µ GF µg/L (04041)	Cyflu-thrin, water, filtrd, 0.7µ GF µg/L (61585)	Cypermethrin water, filtrd, 0.7µ GF µg/L (61586)	DCPA, water, filtrd 0.7µ GF µg/L (82682)
<b>Jul</b>												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.04	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020

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

Part 7 of 14

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

Date	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Desulf-inyl-fipro-nil, water, filtrd, µg/L (62170)	Diazi-chlor-vos, water, filtrd, µg/L (39572)	Di-chlorophos, water, filtrd, µg/L (38775)	Dicropophos, water, filtrd, µg/L (38454)	Diel-drin, water, filtrd, µg/L (39381)	Dimeth-oate, water, filtrd, 0.7µ GF µg/L (82662)	Disulf-ton, water, filtrd, 0.7µ GF µg/L (61640)	Disul-foton, water, filtrd, 0.7µ GF µg/L (82677)	Endo-sulfan, water, filtrd, 0.7µ GF µg/L (61590)	EPTC, water, filtrd, 0.7µ GF µg/L (82668)	Ethion monoxon water, filtrd, µg/L (61644)	Ethion, water, filtrd, µg/L (82346)
<b>Jul</b>													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.029	<.012	<.005	<.02	<.08	.860	<.006	<.01	<.04	<.022	<.002	<.02	<.012

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

Part 8 of 14

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

Date	Etho-prop, water, filtrd, 0.7µ GF µg/L (82672)	Fenami-phos sulfone, water, filtrd, µg/L (61645)	Fenami-sulfide, water, filtrd, µg/L (61646)	Fenami-phos, water, filtrd, µg/L (61591)	Fipro-nil sulfide, water, filtrd, µg/L (62167)	Fipro-nil sulfone, water, filtrd, µg/L (62168)	Fipro-nil, water, filtrd, µg/L (62166)	Fonofos water, filtrd, µg/L (04095)	Hexa-zinone, water, filtrd, µg/L (04025)	Ipro-dione, water, filtrd, µg/L (61593)	Isofen-phos, water, filtrd, µg/L (61594)	Iambda-Cyhalothrin, water, filtrd, µg/L (61595)	Mala-oxon, water, filtrd, µg/L (61652)
<b>Jul</b>													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.016	<.053	<.08	<.03	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080

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

Part 9 of 14

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

Date	Mala-	Meta-	Methid-	Methyl	para-	Metola-	Metri-	Moli-	Oxy-	Pendi-	Phorate	Phorate
	thion,	laxyl,	athion,	paraoxon,	thion,	chlor,	buzin,	nate,	fluor-	alin,	oxon,	water,
	water,	water,	water,	water,	water,	water,	water,	water,	fen,	water,	water,	water,
	fltrd,	fltrd,	fltrd,	fltrd,	0.7μ GF	fltrd,	fltrd,	0.7μ GF	fltrd,	0.7μ GF	fltrd,	0.7μ GF
	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	(39532)	(61596)	(61598)	(61664)	(82667)	(39415)	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)
<b>Jul</b>												
<b>15...</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>15...</b>	<.020	<.007	<.006	<.01	<.008	E.006	<.016	<.002	<.010	<.006	<.012	<.03

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

Part 10 of 14

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

Date	Phosmet	Phosmet	Promo-	Promo-	Pro-	Propar-	Propy-	Tebu-	Ter-	Ter-	Ter-	Ter-
	oxon,	water,	Prometon,	Prometryn,	panil,	gite,	zamide,	Sima-	thiuron	bufos	bufos,	butyly-
	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,
	fltrd,	fltrd,	fltrd,	fltrd,	0.7μ GF							
	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	(61668)	(61601)	(04037)	(04036)	(82679)	(82685)	(82676)	(04035)	(82670)	(61606)	(61674)	(82675)
<b>Jul</b>												
<b>15...</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>15...</b>	<.05	<.200	<.01	<.006	<.014	<.02	<.004	<.010	<.02	<.010	<.04	<.02

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

Part 11 of 14

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

Date	Thio-	trans-	Tri-	1,1,1-							Bromo-	
	bencarb	Propi-	flur-	Tri-		1,1-Di-	1,1-Di-	1,2-Di-	1,3-Di-		di-	
	water,	conazole,	Tribu-	alin,	chloro-	chloro-	chloro-	chloro-	Benzene	chloro-	chloro-	
	fltrd,	water,	phos,	water,	ethane,	CFC-113	ethane,	benzene,	water,	unfltrd	unfltrd	unfltrd
	0.7μ GF	fltrd,	fltrd,	0.7μ GF	unfltrd		unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd
	μg/L	μg/L	μg/L	μg/L	μg/L		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
	(82681)	(79847)	(61610)	(82661)	(34506)	(77652)	(34496)	(34501)	(34536)	(34566)	(34030)	(32101)
<b>Jul</b>												
<b>15...</b>	--	--	--	--	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
<b>15...</b>	<.016	<.02	<.035	<.012	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

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

Part 12 of 14

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

Date	cis-1,2-Dichloroethene, water, unfltrd	Di-bromo-chloro-ethene, methane, water, unfltrd	Di-chloro-di-fluoro-methane, methane, water, wat unf	Di-ether, water, unfltrd	Di-isopropyl ether, water, unfltrd	Methyl benzene	tert-butyl ether, water, unfltrd	meta-pentyl ether, water, unfltrd	+ para-Xylene, water, unfltrd	Organic carbon, Xylene, fltrd,	o-Xylene, water, unfltrd	Styrene
	µg/L (77093)	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)	µg/L (78032)	µg/L (50005)	µg/L (85795)	mg/L (00681)	µg/L (77135)
<b>Jul</b>												
15...	<.1	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.2	--	<.1	<.1
15...	<.1	<.2	<.2	<.2	<.2	<.1	.6	<.2	<.2	.8	<.1	<.1

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

Part 13 of 14

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

Date	t-Butyl ether, water, unfltrd	Tetra-chloro-ethene, water, unfltrd	Tetra-chloro-methane, Toluene	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 30 day, 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)
	µg/L (50004)	µg/L (34475)	µg/L (32102)	µg/L (34010)	µg/L (34546)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	pCi/L (62639)	pCi/L (62636)
<b>Jul</b>												
15...	<.1	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2	--	--
15...	<.1	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	8.4	74	14.5

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

Part 14 of 14

[Remark codes:

&lt;, less than;

E, estimated.]

Date	Beta radioac 72 hr, wat flt, Cs-137, pCi/L (62642)
15...	--
15...	22.1