



## Water-Data Report 2010

### 394117074214001 Local number 291404- Staffordforge MW57

Northern Atlantic Coastal Plain aquifer system  
Cohansey Sand-Kirkwood Formation

Ocean County, NJ

LOCATION.--Lat 39°41'17", long 74°21'40" referenced to North American Datum of 1927, Little Egg Harbor Twp, Ocean County, NJ, Hydrologic Unit 02040301.

#### WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 17.3 ft. Upper casing diameter 2 in; top of first opening 12.3 ft, bottom of last opening 17.3 ft.

DATUM.--Land-surface datum is 50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 2000, 2005, and 2010.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 13. Undeveloped 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 2009 TO SEPTEMBER 2010

Part 1 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	ft below land surface (72019)	Depth to water level,	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Flow rate, instantane-ous, gallons per minute (00059)	pH, water, field, unfiltered, standard units (00400)
						water level, ft below land surface (72019)	unfiltered, mg/L (00300)	% saturation (00301)	gallons per minute (00059)	standard units (00400)
04-05-2010	0900	Field Blank	Blank	--	--	--	--	--	--	--
04-05-2010	1000	Environmental	Regular	765	8.00	8.7	75	.50	.50	4.8

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Turbidity, water, unfiltered, broad band light source			Dissolved solids,					
	Specific conduc- tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera- ture, water, unfiltered, °C (00010)	including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Pump or flow period prior to sampling, minutes (72004)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	constitu- ts, milligrams per liter (70301)	Hardness, water, CaCO <sub>3</sub> mg/L as (00900)	Calcium, water, filtered, mg/L (00915)	Magne- sium, water, filtered, mg/L (00925)
04-05-2010	--	--	--	--	--	--	< .18	< .04	< .016
04-05-2010	54	9.2	.6	40	37	E 30	13.4	1.52	2.33

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 3 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Alkalinity, water, filtered, inflection- point, incremental			Bicarbonate, water, filtered, inflection- titration point, incremental			Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)			Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	method, field, mg/L as CaCO <sub>3</sub> (39086)	incremental titration method, field, mg/L (00453)	Chloride, water, method, field, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)		
04-05-2010	--	< .10	--	--	--	--	< .06	--	--	
04-05-2010	.36	1.76	2	3	3.83	< .08	2.8	7.81	< .10	

## 394117074214001 Local number 291404- Staffordforge MW57—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 4 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Nitrate plus		Orthophos-		Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Copper, water, filtered, µg/L (01040)
	Ammonia, water, filtered, mg/L as N (00608)	Nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	phate, water, filtered, mg/L as P (00671)						
04-05-2010	--	--	--	--	< 3.4	< 0.14	< .01	< .02	< .12	< 1.0
04-05-2010	E.011	1.75	< .002	E.005	124	27	.12	.04	< .12	< 1.0

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 5 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Manga-		Mercury, water, filtered, µg/L (71890)	Nickel, water, filtered, µg/L (01065)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	
	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	nese, water, filtered, µg/L (01056)							
04-05-2010	< 6	< .03	< .3	< .010	< .12	< 2.8	< .05	< .04	< 3	< .04
04-05-2010	7	.10	17.5	< .010	1.0	E 2.5	E .04	.14	10	.16

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 6 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	1,1,2-Tri-chloro-									
	1,2-Di-chloro-ethane, water, unfiltered, recoverable, µg/L (32103)	1,2-Dichloro-propane, water, unfiltered, recoverable, µg/L (34541)	1,4-Dichloro-benzene, water, unfiltered, recoverable, µg/L (34571)	1,1,1-Tri-chloro-ethane, water, unfiltered, recoverable, µg/L (34506)	1,2,2-Trifluoro-ethane, water, unfiltered, recoverable, µg/L (77652)	1,1-Di-chloro-ethane, water, unfiltered, recoverable, µg/L (34496)	1,1-Di-chloro-ethene, water, unfiltered, recoverable, µg/L (34501)	1,2-Dichloro-benzene, water, unfiltered, recoverable, µg/L (34536)	1,3-Dichloro-benzene, water, unfiltered, recoverable, µg/L (34566)	Benzene, water, unfiltered, recoverable, µg/L (34030)
04-05-2010	--	--	--	--	--	--	--	--	--	--
04-05-2010	< .2	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 7 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Bromo-dichloro-methane, water, unfiltered, recoverable, µg/L (32101)	Chloro-benzene, water, unfiltered, recoverable, µg/L (34301)	cis-1,2-Di-chloro-ethene, water, unfiltered, recoverable, µg/L (77093)	Dibromo-chloro-methane, water, unfiltered, recoverable, µg/L (32105)	Dichloro-difluoro-methane, water, unfiltered, recoverable, µg/L (34668)	Dichloro-methane, water, unfiltered, recoverable, µg/L (34423)	Diethyl ether, water, unfiltered, recoverable, µg/L (81576)	Diisopropyl ether, water, unfiltered, recoverable, µg/L (81577)	Ethyl-benzene, water, unfiltered, recoverable, µg/L (34371)	Methyl tert-butyl ether, water, unfiltered, recoverable, µg/L (78032)
04-05-2010	--	--	--	--	--	--	--	--	--	--
04-05-2010	<.1	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 8 of 9

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; R, radchem non-detect, below ssLc]

Date	Methyl tert-pentyl ether, water, unfiltered, recoverable, µg/L (50005)	m-Xylene plus p- xylene, water, unfiltered, recoverable, µg/L (85795)	Organic carbon, water, filtered, mg/L (00681)	o-Xylene, water, unfiltered, recover- able, µg/L (77135)	Styrene, water, unfiltered, recover- able, µg/L (77128)	tert-Butyl ethyl ether, water, unfiltered, recover- able, µg/L (50004)	Tetra-chloro- ethene, water, unfiltered, recover- able, µg/L (34475)	Tetra-chloro- methane, water, unfiltered, recover- able, µg/L (32102)	Toluene, water, unfiltered, recover- able, µg/L (34010)	trans-1,2- Dichloro- ethene, water, unfiltered, recover- able, µg/L (34546)
04-05-2010	--	--	--	--	--	--	--	--	--	--
04-05-2010	<.2	<.2	E .4	<.1	<.1	<.1	<.1	<.2	<.1	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 9 of 9

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Date	Trichloro-				Alpha radioactivi- ty, 30-day	Alpha radioactivi- ty, 72-hour	Beta radioactivi- ty, 30-day	Beta radioactivi- ty, 72-hour
	Tribromo- methane, water, unfiltered, recover- able, µg/L (32104)	Trichloro- ethene, water, unfiltered, recover- able, µg/L (39180)	Trichloro- fluoro- methane, water, unfiltered, recover- able, µg/L (34488)	Trichloro- methane, water, unfiltered, recover- able, µg/L (32106)	Vinyl chloride, water, unfiltered, recover- able, µg/L (39175)			
04-05-2010	--	--	--	--	--	--	--	--
04-05-2010	<.2	<.1	<.2	<.1	<.2	.7	.46	1.0
								R .1