Water-Data Report 2009

404519073003901 Local number S128393. 1

Northern Atlantic Coastal Plain aquifer system
Glacial Aquifer, Upper

Suffolk County, NY

LOCATION.--Lat 40°45'19.4", long 73°00'39.4" referenced to North American Datum of 1983, Suffolk County, NY, Hydrologic Unit 02030202.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 9.5 ft. Upper casing diameter 2 in; top of first opening 5.5 ft, bottom of last opening 7.5 ft.

DATUM.--Land-surface datum is 8.5 ft above North American Vertical Datum of 1988.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 4

[ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO2, silicon dioxide; ft, feet; mg/L, milligrams per liter; nm, nanometers; per mil, parts per thousand; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detection angle 90 +/- 30 degrees to incident light, NTU (63675)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
03-25-2009	1220	6.28	6.3	6.2	657	8.4	3.0	39.2	3.22	1.83

404519073003901 Local number S128393. 1—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 4

[ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO2, silicon dioxide; ft, feet; mg/L, milligrams per liter; nm, nanometers; per mil, parts per thousand; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO3 (90410)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO3 (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO2 (00955)	Sulfate, water, filtered, mg/L (00945)
03-25-2009	80.7	68	67	82	< 1	132	< .08	4.8	13.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 4

[ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO2, silicon dioxide; ft, feet; mg/L, milligrams per liter; nm, nanometers; per mil, parts per thousand; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos-phate, water, filtered, mg/L as P (00671)	Phos-phorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Iron, water, filtered, µg/L (01046)
03-25-2009	.031	5.16	< .002	.036	.033	.041	5.24	5.06	E 3

404519073003901 Local number S128393. 1—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

[ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO2, silicon dioxide; ft, feet; mg/L, milligrams per liter; nm, nanometers; per mil, parts per thousand; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Boron, water, filtered, µg/L (01020)	Organic carbon, water, filtered, mg/L (00681)	Nitrogen-15/-Nitrogen-14 ratio in nitrate fraction, water, filtered, per mil (82690)
03-25-2009	24	2.2	4.27