01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 40°59′23″, long 73°56′07″ referenced to North American Datum of 1983, Norwood Borough, Bergen County, NJ, Hydrologic Unit 02030101, at culvert on Piermont Road, 0.1 mi north of intersection with Broadway, 1.5 mi southeast of Northvale, 2.1 mi upstream from mouth, and 2.8 mi northeast from Oradell Reservoir.

DRAINAGE AREA.--0.50 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2005-09.

GAGE.--Reference point only.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Discharge, in ft^3/s
Nov 20, 2008	0.52
Mar 4, 2009	0.46
Jun 4, 2009	0.35
Sep 1, 2009	0.20

01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007 to current year.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 5.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Instantaneous discharge, ft³/s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dissolved solids dried @ 180degC wat flt mg/L (70300)
Nov													
20...	0900	760	13.0	.081	.061	.52	10.9	84	7.7	265	4.3	.5	180
Mar													
04...	0915	773	-1.0	.049	.038	.46	12.7	88	7.7	289	.5	1.1	184
Jun													
04...	0930	764	17.0	.166	.126	.35	8.5	82	7.8	296	13.5	1.3	225
Sep													
01...	1045	769	20.5	.093	.071	.20	8.8	87	7.9	358	15.1	1.0	222

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 5
[Remark codes: <, less than; E, estimated.]

Date	Dissolved solids, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO3 (00900)	Suspended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)
Nov													
20...	165	110	<1	30.8	8.69	.90	8.85	89	.4	14.7	<.08	<.04	23.2
Mar													
04...	E176	120	3	32.2	9.24	.74	12.7	87	.2	21.0	E.05	<.04	21.2
Jun													
04...	E181	130	1	34.7	9.38	1.36	12.8	102	.3	17.8	E.05	<.04	20.2
Sep													
01...	E213	150	<1	42.7	11.0	1.18	12.7	120	<.2	23.8	E.07	<.04	26.0

01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 5
[Remark codes: <, less than; E, estimated.]

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Phos-phorus, water, fltrd, mg/L as P (00666)	Phos-phorus, water, unfltrd mg/L as P (00665)	Total nitro-gen, water, fltrd, mg/L (00602)	Total nitro-gen, water, unfltrd mg/L (00600)	Barium, water, unfltrd recover-able, µg/L (01007)	Beryll-ium, water, unfltrd recover-able, µg/L (01012)	Cadmium water, unfltrd µg/L (01027)
Nov 20...	23.3	.14	.010	.38	.013	.03	.011	.013	.52	.55	--	--	--
Mar 04...	24.5	.13	<.010	.37	E.008	.03	E.004	E.006	.50	.52	25.8	<.02	<.06
Jun 04...	21.5	.28	.020	.33	.020	.04	.022	.030	.61	.65	--	--	--
Sep 01...	22.2	.19	<.010	.46	.026	<.02	.028	.031	.65	--	34.1	<.02	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 5
[Remark codes: <, less than; E, estimated.]

Date	Chrom-ium, water, unfltrd recover-able, µg/L (01034)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, unfltrd recover-able, µg/L (01055)	Mercury water, unfltrd recover-able, µg/L (71900)	Nickel, water, unfltrd recover-able, µg/L (01067)	Silver, water, unfltrd recover-able, µg/L (01077)	Zinc, water, unfltrd recover-able, µg/L (01092)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Boron, water, unfltrd recover-able, µg/L (01022)	Selen-ium, water, unfltrd µg/L (01147)
Nov 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 04...	.45	<4.0	144	E.08	43.5	<.010	.33	<.06	E1.1	.22	.21	63	E.08
Jun 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep 01...	E.20	<4.0	215	<.10	26.4	<.010	.37	<.06	<2.0	.51	.75	91	E.09

01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008
TO SEPTEMBER 2009
Part 5 of 5
[Remark codes: <, less than; E, estimated.]

Date	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Nov 20...	.34	2.8
Mar 04...	.24	4.0
Jun 04...	.29	4.8
Sep 01...	<.12	2.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 7
[Remark codes: <, less than; E, estimated.]

Date	1-Naphthol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Diethylaniline water, fltrd 0.7µ GF µg/L (82660)	2Chloro-2',6'-diethyl acetanilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methylaniline wat flt µg/L (61620)	3,4-Dichloroaniline water, fltrd, µg/L (61625)	3,5-Dichloroaniline water, fltrd, µg/L (61627)	4-Chloro-2-methylphenol, wat flt µg/L (61633)	Acetochlor, water, fltrd, µg/L (49260)	Alachlor, water, fltrd, µg/L (46342)	alpha-Endosulfan, water, fltrd, µg/L (34362)	Atrazine, water, fltrd, µg/L (39632)	Azinphosmethyl oxon, water, fltrd, µg/L (61635)
Jun 04...	<.04	<.006	<.010	E.009	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.011	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 7
[Remark codes: <, less than; E, estimated.]

Date	Azinphosmethyl, water, fltrd 0.7µ GF µg/L (82686)	Benfluralin, water, fltrd 0.7µ GF µg/L (82673)	Carbaryl, water, fltrd 0.7µ GF µg/L (82680)	Carbofuran, water, fltrd 0.7µ GF µg/L (82674)	Chlorpyrifos oxon, water, fltrd, µg/L (61636)	Chlorpyrifos water, fltrd, µg/L (38933)	cis-Permethrin water fltrd 0.7µ GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyanazine, water, fltrd, µg/L (04041)	Cyfluthrin, water, fltrd, µg/L (61585)	Cypermethrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulfinylfipronil amide, wat flt µg/L (62169)
Jun 04...	<.120	<.014	E.007	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029

01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 7
[Remark codes: <, less than; E, estimated.]

Date	Desulfinylfipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Dichlorvos, water, fltrd, µg/L (38775)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd 0.7µ GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7µ GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Ethoprop, water, fltrd 0.7µ GF µg/L (82672)
Jun 04...	E.005	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 7
[Remark codes: <, less than; E, estimated.]

Date	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	lambda-Cyhalothrin, water, fltrd, µg/L (61595)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)
Jun 04...	<.053	<.08	<.03	E.006	E.005	E.010	<.010	<.008	<.014	<.006	<.010	<.080	<.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 5 of 7
[Remark codes: <, less than; E, estimated.]

Date	Metalaxyl, water, fltrd, µg/L (61596)	Methidathion, water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7µ GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7µ GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)
Jun 04...	<.007	<.006	<.01	<.008	<.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05

01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 6 of 7
[Remark codes: <, less than; E, estimated.]

Date	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propanil, water, fltrd 0.7µ GF µg/L (82679)	Propargite, water, fltrd 0.7µ GF µg/L (82685)	Propyzamide, water, fltrd 0.7µ GF µg/L (82676)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron water, fltrd 0.7µ GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7µ GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7µ GF µg/L (82681)
Jun 04...	<.200	<.01	<.006	<.014	<.02	<.004	E.008	<.02	<.010	<.04	<.02	<.01	<.016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 7 of 7
[Remark codes: <, less than; E, estimated.]

Date	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7µ GF µg/L (82661)
Jun 04...	<.02	<.035	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 4
[Remark codes: <, less than; E, estimated.]

Date	Moisture, bed sed <2 mm, wsv nat fld dry percent (49282)	pH bed sedimnt std units (70310)	Total carbon, bed sedimnt total, g/kg (00693)	Inorganic carbon, bed sedimnt total, g/kg (00686)	Phosphorus, bed sedimnt total, mg/kg as P (00668)	Cadmium bed sedimnt recoverable, µg/g (01028)	Chromium, bed sedimnt recoverable, µg/g (01029)	Cobalt bed sedimnt recoverable, µg/g (01038)	Copper, bed sedimnt recoverable, µg/g (01043)	Iron, bed sedimnt total digest, µg/g (01170)	Lead, bed sedimnt recoverable, µg/g (01052)	Manganese, bed sedimnt recoverable, µg/g (01053)	Mercury bed sedimnt recoverable, µg/g (71921)
Sep 01...	26	7.70	1.0	<.2	E130	.040	7.0	2.4	5	6,000	3.6	100	<.007

01376273 SPARKILL BROOK AT PIERMONT ROAD, AT NORTHVALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 4
[Remark codes: <, less than; E, estimated.]

Date	Nickel, bed sedimnt recover-able, µg/g (01068)	Zinc, bed sedimnt recover-able, µg/g (01093)	Arsenic bed sedimnt recover-able, µg/g (64847)	Sele-nium, bed sedimnt recover-able, µg/g (64848)	p-Cresol, bed sed <2 mm, wsv nat field, µg/kg (49451)	PCBs, bed sedimnt µg/kg (39519)	1,2-Di-methyl-naphth-alene, bed sed <2 mm, µg/kg (49403)	1,6-Di-methyl-naphth-alene, bed sed <2 mm, µg/kg (49404)	1Methyl -9H-fluor-ene, bed sed <2 mm, µg/kg (49398)	1-Methyl-phenan-threne, bed sed <2 mm, µg/kg (49410)	1-Methyl-pyrene, bed sed <2 mm, wsv nat µg/kg (49388)	236Tri-methyl-naphth-alene, bed sed <2 mm, µg/kg (49405)	2,6-Di-methyl-naphth-alene, bed sed <2 mm, µg/kg (49406)
Sep 01...	4.1	15	.8	<.1	<50	<5.00	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 4
[Remark codes: <, less than; E, estimated.]

Date	2-Ethyl naphth-alene bed sed <2 mm wsv nat µg/kg (49948)	2-Methyl-anthra-cene, bed sed <2 mm, µg/kg (49435)	4H-Cyc-lopenta-[def]-phenan-threne, bs <2mm µg/kg (49411)	9H-Fluor-ene, bed sed <2 mm, wsv nat µg/kg (49399)	Ace-naphth-ene, bed sed <2 mm, wsv nat µg/kg (49429)	Ace-naphth-ylene, bed sed <2 mm, wsv nat µg/kg (49428)	Anthra-cene, bed sed <2 mm, wsv nat field, µg/kg (49434)	Benzo-[a]-anthra-cene, bed sed <2 mm, µg/kg (49436)	Benzo-[a]-pyrene, bed sed <2 mm, wsv nat µg/kg (49389)	Benzo-[b]-fluor-anthene bed sed <2 mm µg/kg (49458)	Benzo-[ghi]-peryl-ene, bed sed <2 mm, µg/kg (49408)	Benzo-[k]-fluor-anthene bed sed <2 mm µg/kg (49397)	Chry-sene, bed sed <2 mm, wsv nat field, µg/kg (49450)
Sep 01...	<50	<50	<50	<50	<50	<50	<50	E31	E32	E48	E19	E18	E34

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 4
[Remark codes: <, less than; E, estimated.]

Date	Dibenzo-[a,h]-anthra-cene, bed sed <2 mm, µg/kg (49461)	Fluor-anthene bed sed <2 mm wsv nat field, µg/kg (49466)	Indeno-[1,2,-3-cd]-pyrene, bed sed <2 mm µg/kg (49390)	Iso-phorone bed sed <2 mm, wsv nat field, µg/kg (49400)	Naphth-alene, bed sed <2 mm wsv nat µg/kg (49402)	Phenan-threne, bed sed <2 mm, wsv nat field, µg/kg (49409)	Phenan-thri-dine, bed sed <2 mm, wsv nat µg/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, µg/kg (49387)	Bed sedimnt dry svd sve dia percent <0.0625 mm (80164)
Sep 01...	<50	89	E19	<50	<50	E41	<50	69	.0