

Water-Data Report 2006

01378760 LOANTAKA BROOK NEAR MORRISTOWN, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°46'18", long 74°27'38" referenced to North American Datum of 1983, Morristown Town, Morris County, NJ, Hydrologic Unit 02030103, 0.4 mi east of the intersection of SouthStreet and Loantaka Road, 0.5 mi upstream of dam, and 2.0 mi southeast of Morristown.

DRAINAGE AREA.--1.33 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 6.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

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

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH percent of sat- uration (00301)	Specif. water, unfltrd field, std units (00400)	Conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 03...	1015	1.7	.113	.090	758	7.1	72	7.4	1,100	8.0	16.0	220	55.7	
Feb 23...	1045	1.7	.105	.081	753	10.9	100	7.5	1,200	1.5	10.8	240	59.8	
Jun 12...	1030	1.9	.132	.103	752	9.4	102	8.6	1,070	20.0	18.4	220	54.8	
Aug 30...	1030	1.9	.216	.167	753	6.8	78	7.5	944	14.0	21.4	190	46.7	

01378760 LOANTAKA BROOK NEAR MORRISTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	ANC, wat unf						Residue water,		Residue on		Residue total		Ammonia	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO ₃ mg/L as (90410)	fixed end pt, lab, mg/L as (00940)	Chlor- ide, water, fltrd, mg/L (00950)	Fluor- ide, water, fltrd, mg/L (00955)	Silica, water, fltrd, mg/L (00945)	Sulfate, water, fltrd, mg/L (00945)	180degC sum of consti- tuents mg/L (70301)	180degC wat flt mg/L (70300)	sus- pended, mg/L (00530)	at 105 deg. C, mg/L (00623)	org-N, water, fltrd, mg/L (00608)
Nov 03...	20.4	10.4	120	98	206	.17	16.9	67.8	610	594	5	.85	.027	
Feb 23...	22.1	8.83	134	120	228	.16	16.5	70.2	650	668	2	.65	.032	
Jun 12...	20.1	7.32	116	125	208	.14	6.4	59.0	565	625	2	.82	.164	
Aug 30...	17.2	8.85	99.9	110	166	.15	16.0	48.1	515	531	1	.92	.053	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, susnd sediment mg/L (00694)	Inor- ganic carbon, susnd sediment mg/L (00688)	Organic carbon, susnd sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
Nov 03...	11.9	.04	13	13	.255	.26	.31	.5	<.1	.5	3.5	<1.0	--
Feb 23...	8.79	.10	9.4	9.5	.090	.13	.20	.6	<.1	.6	4.1	<1.0	.35
Jun 12...	3.95	.05	4.8	4.8	.085	.11	.14	.4	<.1	.4	5.0	--	--
Aug 30...	9.38	.05	10	10	1.07	1.11	1.16	.4	<.1	.4	6.0	<1.0	.83

01378760 LOANTAKA BROOK NEAR MORRISTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Beryll-			Chrom-			Mangan-					
	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recover -able, ug/L (01007)	ium, water, unfltrd recover -able, ug/L (01012)	Boron, water, unfltrd recover -able, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	ium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)	ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71900)
Nov 03...	--	--	--	248	--	--	--	--	--	--	--	--
Feb 23...	.48	25.3	<.06	241	243	E.04	.30	3.5	121	.34	63.4	<.010
Jun 12...	--	--	--	214	--	--	--	--	--	--	--	--
Aug 30...	.95	22.0	<.06	240	222	.05	.54	9.4	221	.54	22.5	<.010
												1.84

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO
SEPTEMBER 2006

Part 5 of 5

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

Date	Silver, Zinc,		
	Selen- ium, water, unfltrd recover ug/L (01147)	water, unfltrd recover ug/L (01077)	water, unfltrd recover ug/L (01092)
Nov 03...	--	--	--
Feb 23...	.23	<.16	31
Jun 12...	--	--	--
Aug 30...	.24	<.16	24

01378760 LOANTAKA BROOK NEAR MORRISTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt	Aci-fluor-fen, water, fltrd, ug/L (49308)	3-Hydroxy fluor-fen, water, fltrd, ug/L (49315)	Aldi-carb sulfone, water, fltrd, ug/L (49313)	Aldi-carb sulf-oxide, water, fltrd, ug/L (49314)	Aldi-carb, water, fltrd, ug/L (49312)	Atra-zine, water, fltrd, ug/L (39632)
Jun 12...	1030	<.190	.04	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.100	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (50300)	Bensulfuron-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF	Bromo-cil, water, fltrd, ug/L (38711)	Bromoxynil, water, fltrd, 0.7u GF	Caf-feine, water, fltrd, ug/L (49311)	Car-baryl, water, fltrd, 0.7u GF	Carbo-furan, water, fltrd, ug/L (50305)	Chlor-amben methyl, water, fltrd, ug/L (49310)	Chloro-amben methyl, water, fltrd, ug/L (49309)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (61188)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (50306)	Clopyralid, water, fltrd, ug/L (04039)
Jun 12...	<.08	<.022	<.02	<.02	<.02	<.04	E.017	<.02	<.016	<.02	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Dacthal mono-acid, water, fltrd, 0.7u GF	Dicamba, water, fltrd, 0.7u GF	Di-chlor-prop, water, fltrd, 0.7u GF	Dinoseb, water, fltrd, 0.7u GF	Diphen-amid, water, fltrd, ug/L (49301)	Diuron, water, fltrd, 0.7u GF	Fenuron, water, fltrd, ug/L (49300)	Flumet-sulam, water, fltrd, ug/L (49297)	Fluo-meturon, water, fltrd, ug/L (61694)	Imaza-quin, water, fltrd, ug/L (38811)	Imaza-thapyr, water, fltrd, ug/L (50356)	Imaze-thapyr, water, fltrd, ug/L (50407)	Imida-cloprid, water, fltrd, ug/L (61695)	
Jun 12...	<.01	<.03	<.04	<.03	<.04	<.01	.02	<.10	<.04	<.02	<.04	<.04	<.04	<.020

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	N-(4-Chlorophenyl)Metsulfuron-methyl												
	Linuron water, filtrd 0.7u GF ug/L (38478)	MCPA, water, filtrd 0.7u GF ug/L (38482)	MCPB, water, filtrd 0.7u GF ug/L (38487)	Metalexyl, water, filtrd, ug/L (50359)	Methio-carb, water, filtrd 0.7u GF ug/L (38501)	Methoxymyl, water, filtrd 0.7u GF ug/L (49296)	Metsulfuron-furon, water, filtrd, ug/L (61697)	Chlorophenyl)N'-methylurea, water, filtrd, ug/L (61692)	Neburon water, filtrd 0.7u GF ug/L (49294)	Nicosulfuron, water, filtrd 0.7u GF ug/L (50364)	Norflurazone, water, filtrd 0.7u GF ug/L (49293)	Oryzalin, water, filtrd 0.7u GF ug/L (49292)	Oxamyl, water, filtrd 0.7u GF ug/L (38866)
Jun 12...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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Date	Picloram, water, filtrd 0.7u GF ug/L (49291)	Propham Propane- water, filtrd 0.7u GF ug/L (49236)	Propiconazole, water, filtrd, ug/L (50471)	Propoxur, water, filtrd 0.7u GF ug/L (38538)	Siduron, water, filtrd, ug/L (38548)	Sulforuron, water, filtrd, ug/L (50337)	Tebuthiuron, water, filtrd 0.7u GF ug/L (82670)	Terbacil, water, filtrd, ug/L (04032)	Tri-clopyr, water, filtrd 0.7u GF ug/L (49235)
Jun 12...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Enterococci		Fecal coliform	
		m-E	m-TEC	MF	MF
Temperature, water, deg C		water, col/100 mL	water, col/100 mL	water, MPN/100 mL	
(00010)		(31649)	(31633)	(31615)	
Jul 12...	1150	22.4	340	80	300
19...	1132	22.8	500	500	1,700
26...	1255	23.4	270	10	210
Aug 02...	1038	24.6	500	80	230
09...	1050	23.0	500	110	220