

## Water-Data Report 2007

**01411457 LITTLE EASE RUN AT GRANT AVENUE, NEAR FRANKLINVILLE, NJ**

MAURICE RIVER BASIN

LOCATION.--Lat 39°38'06", long 75°04'19" referenced to North American Datum of 1983, Franklin Township, Gloucester County, NJ, Hydrologic Unit 02040206, at Grant Avenue, 600 ft west from Jackson Avenue, 0.9 mi upstream from Franklinville Lake, and 1.2 mi north from Franklinville.

DRAINAGE AREA.--12.4 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 2006 to August 2007.

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). Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 17.

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, ammonia-plus-organic nitrogen in bed sediment, and phosphorus in bed sediment were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 5

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

Date	Time	Turbdty white light, det ang 90+/-30 corrcrd	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, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, deg C (25 degC (00020))	Temper- ature, air, deg C (00010)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)
Nov 15...	0930	1.1	1.79	1.40	758	4.3	42	4.8	64	19.0	13.7	11	2.54	
Feb 22...	0930	1.2	.234	.178	754	10.4	97	5.3	127	7.5	2.7	17	3.35	
May 21...	1000	2.5	.842	.666	762	6.9	67	5.5	93	21.5	14.3	17	3.38	
Aug 07...	0930	2.7	.157	.128	758	6.7	71	6.4	105	31.0	18.2	19	3.53	

## 01411457 LITTLE EASE RUN AT GRANT AVENUE, NEAR FRANKLINVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 5

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

Date	ANC, wat unf fixed						Chlor- ide, lab, mg/L as CaCO <sub>3</sub>	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filter- able, mg/L (00530)	Ammonia	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO <sub>3</sub> (90410)	mg/L (00940)	mg/L (00950)							org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	
Nov 15...	1.21	1.94	4.98	<5	8.40	<.10	6.9	3.50	--	82	3	.85	.033		
Feb 22...	2.06	1.50	15.0	<5	26.9	E.07	7.2	5.51	--	81	1	2.4	.030		
May 21...	1.98	2.11	9.80	5	15.7	<.10	6.9	3.19	52	144	6	2.3	.067		
Aug 07...	2.58	2.01	9.94	10	13.8	<.10	8.9	3.64	65	84	5	.51	.058		

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 5

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

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, fltrd, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, unfltrd mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd water, sediment mg/L (00694)	Inor- ganic carbon, suspnd water, sediment mg/L (00688)	Organic carbon, suspnd water, sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, mg/L (01000)	Arsenic water, unfltrd mg/L (01002)	
Nov 15...	.12	<.02	.97	--	E.007	.034	.037	.2	<.1	.2	28.7	--	--	--
Feb 22...	.97	<.02	3.3	--	<.010	E.004	.009	.3	<.1	.3	5.3	.34	.47	
May 21...	1.20	.08	3.5	3.6	<.010	.027	.035	1.0	<.1	1.0	24.9	--	--	
Aug 07...	3.13	.05	3.6	3.7	E.005	.012	.013	.5	<.1	.5	3.1	.70	.88	

01411457 LITTLE EASE RUN AT GRANT AVENUE, NEAR FRANKLINVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 4 of 5

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

Date	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll- ium, water, unfltrd recover -able, µg/L (01012)	Boron, water, unfltrd recover -able, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium water, unfltrd recover -able, µg/L (01027)	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)	Selen- ium, water, unfltrd recover -able, µg/L (01147)
Nov 15...	--	--	21	--	--	--	--	--	--	--	--	--	
Feb 22...	42.6	E.04	13	12	.06	<.60	<1.2	344	.46	25.6	.017	1.19	
May 21...	--	--	17	--	--	--	--	--	--	--	--	--	
Aug 07...	65.1	E.04	28	23	.08	<.60	<1.2	534	.63	17.2	.029	1.3	

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006**  
**TO SEPTEMBER 2007**

Part 5 of 5

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

Date	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 15...	--	--
Feb 22...	<.02	11
May 21...	--	--
Aug 07...	<.02	5.9

## 01411457 LITTLE EASE RUN AT GRANT AVENUE, NEAR FRANKLINVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 4

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

Date	Time	Ammonia			Inor-			Chrom-					
		pH bed sedimnt std	+ org-N, bed sed total, mg/kg (70310)	Phos- phorus, bed sedimnt total, mg/kg (00626)	Total carbon, bed sedimnt total, g/kg (00693)	Inor- ganic carbon, bed sedimnt total, g/kg (00686)	Arsenic bed sedimnt recover -able, ug/g (64847)	Cadmium bed sedimnt recover -able, ug/g (01028)	ium, bed sedimnt recover -able, ug/g (01029)	Cobalt bed sedimnt recover -able, ug/g (01038)	Copper, bed sedimnt recover -able, ug/g (01043)	Iron, bed sedimnt total, ug/g (01170)	Lead, bed sedimnt recover -able, ug/g (01052)
Aug 07...	0930	6.21	80	250	.9	<.2	.6	.010	2.4	.2	2	1,600	7.0

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 4

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

Date	Mangan- ese, bed sedimnt recover -able, ug/g (01053)			Sele- nium, bed sedimnt recover -able, ug/g (71921)			1,2-Di- methyl- naphth- alene, ug/g (01068)			1,6-Di- methyl- naphth- alene, ug/g (64848)			1Methyl -9H- fluor- ene, ug/g (01093)			1- Methyl- phenan- threne, ug/g (49403)			236Tri- Methyl- naphth- alene, ug/g (49404)			2,6-Di- methyl- naphth- alene, ug/g (49405)			2-Ethy- l naphth- alene, ug/g (49448)		
	Mercu- ry bed sedimnt recover -able, ug/g (71921)	Nickel, bed sedimnt recover -able, ug/g (01068)	Zinc, bed sedimnt recover -able, ug/g (64848)	methyl- naphth- alene, ug/g (01093)	methyl- naphth- alene, ug/g (49403)	methyl- naphth- alene, ug/g (49404)	methyl- naphth- alene, ug/g (49398)	methyl- naphth- alene, ug/g (49410)	methyl- naphth- alene, ug/g (49388)	methyl- naphth- alene, ug/g (49405)	methyl- naphth- alene, ug/g (49406)	methyl- naphth- alene, ug/g (49406)															
Aug 07...	6.1	<.007	.7	<.1	<3.1	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50			

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 4

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

Date	2-Methyl- anthra- cene, bed sedimnt <2 mm, ug/kg (49435)	4H-Cyc- lopenta- phenan- threne, <2 mm, ug/kg (49411)	9H- Fluor- ene, <2 mm, ug/kg (49399)	Ace- naphth- ene, <2 mm, ug/kg (49429)	Ace- naphth- ene, <2 mm, ug/kg (49428)	Anthra- cene, bed sedimnt field, ug/kg (49434)	Benzo- [a]- anthra- cene, bed sedimnt field, ug/kg (49436)	Benzo- [a]- pyrene, bed sedimnt field, ug/kg (49389)	Benzo- [b]- fluor- ene, bed sedimnt field, ug/kg (49458)	Benzo- [ghi]- peryl- ene, bed sedimnt field, ug/kg (49408)	Benzo- [k]- fluor- ene, bed sedimnt field, ug/kg (49397)	Chry- sene, bed sedimnt field, ug/kg (49450)	Dibenzo- -[a,h]- anthra- cene, bed sedimnt field, ug/kg (49461)	
Aug 07...	<50	<50	<50	<50	E3	<50	E18	<50	<50	<50	<50	E8	<50	

## 01411457 LITTLE EASE RUN AT GRANT AVENUE, NEAR FRANKLINVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 4 of 4

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

Date	Fluor-anthene <2 mm wsv nat field, ug/kg (49466)	Indeno-[1,2,- 3-cd]- bed sed bed sed pyrene, <2 mm, wsv nat bed sed field, ug/kg (49390)	Iso-phorone bed sed <2 mm, wsv nat field, ug/kg (49400)	Naphth-alene, bed sed <2 mm bed wsv nat wsv nat sedimnt	p-Cresol, PCBs, ug/kg (49402)	Phenan-threne, <2 mm, wsv nat field, ug/kg (49451)	Phenan-threne, <2 mm, bed sed wsv nat field, ug/kg (49409)	Pyrene, bed sed wsv nat field, ug/kg (49393)	Bed ment, sve dia percent <.063mm (80164)
Aug 07...	<50	<50	<50	<50	<5.00	<50	<50	<50	.0