



Water-Data Report 2007

**01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ**

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°58'36", long 73°56'03" referenced to North American Datum of 1983, Alpine Borough, Bergen County, NJ, Hydrologic Unit 02030103, at foot of Anderson Avenue in Alpine, 1.6 mi southwest of Northvale, and 1.7 mi upstream of mouth.

DRAINAGE AREA.--0.35 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 2002 to current year.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft <sup>3</sup> /s
Nov 16, 2006	0.86
Feb 27, 2007	0.16
May 21, 2007	0.20
Aug 28, 2007	0.03

**01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued****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). Cooperative Network Site Descriptor: Background and Low Level Mercury Assessment special study site, NJ Department of Environmental Protection Watershed Management Area 5. Samples on Jun 14 and Sep 06 were for the Low Level Mercury Assessment.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue 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: <, less than; E, estimated.]

Date	Time	Sample type	Turbdty	UV	UV	Baro-	Dis-	pH,	Specif-	
			white light, det ang 90+/-30 dis- charge, corrctd cfs (00061)	absorb- ance, 254 nm, wat flt units	absorb- ance, 280 nm, wat flt units			water, field, std units (00400)		ic conduc- tance, wat unf µS/cm (00095)
<b>Nov</b>										
16...	0930	Environmental	.86	.6	.117	.087	--	10.1	--	7.3
<b>Feb</b>										
27...	1020	Environmental	.16	.5	.017	.011	758	13.8	100	7.2
<b>May</b>										
21...	1130	Environmental	.20	.6	.051	.036	761	10.2	94	7.0
<b>Jun</b>										
14...	1015	Field Blank	--	--	--	--	--	--	--	--
14...	1030	Environmental	--	.5	--	--	762	8.5	83	7.4
<b>Aug</b>										
28...	1010	Field Blank	--	--	--	--	--	--	--	--
28...	1030	Environmental	E.03	.8	.040	.029	762	4.7	50	6.5
<b>Sep</b>										
06...	1150	Field Blank	--	--	--	--	--	--	--	--
06...	1200	Environmental	--	1.6	--	--	771	3.8	41	6.8

## 01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
 Part 2 of 5  
 [Remark codes: <, less than; E, estimated.]

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	ANC, wat unf fixed			Chlor- ide pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)	Sulfate water, mg/L (00945)	Residue water, filtr, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat fit mg/L (70300)
							Chlor- ide, lab, mg/L as CaCO <sub>3</sub> (90410)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)						
Nov 16...	13.7	35	8.74	3.13	.63	7.58	25	9.78	<.10	19.3	11.9	77	82		
Feb 27...	2.1	51	12.5	4.79	.54	8.73	28	19.2	E.07	20.0	16.8	101	108		
May 21...	11.8	40	9.92	3.74	.61	8.58	26	12.8	<.10	19.5	13.1	84	86		
Jun 14...	--	--	--	--	--	--	--	--	--	--	--	--	--		
Jun 14...	13.9	--	--	--	--	--	--	--	--	--	--	--	--		
Aug 28...	--	--	--	--	--	--	--	--	--	--	--	--	--		
Aug 28...	18.9	40	9.83	3.75	.72	8.52	30	12.2	E.06	21.6	15.2	91	96		
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--		
Sep 06...	18.4	--	--	--	--	--	--	--	--	--	--	--	--		

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
 Part 3 of 5  
 [Remark codes: <, less than; E, estimated.]

Date	Residue total non- filter- able, mg/L (00530)	Ammonia		Nitrate	Partic- ulate	Ortho- phosphate			Phos- phorus, water, mg/L (00666)	Phos- phorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
		+ org-N, water, mg/L (00623)	Ammonia water, mg/L (00608)	+ nitrite water, mg/L (00631)	nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, mg/L (00602)	Phos- phorus, water, fltrd, mg/L (00671)							
Nov 16...	<1	.17	.018	.10	<.02	.27	E.005	E.005	E.004	<.1	<.1	<.1	3.5	
Feb 27...	2	E.06	<.010	.37	<.02	--	.010	<.008	.010	.3	<.1	.3	1.3	
May 21...	2	E.06	<.010	.13	<.02	--	E.007	E.007	E.006	.1	<.1	.1	1.8	
Jun 14...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Jun 14...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aug 28...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aug 28...	1	.12	.020	.36	<.02	.48	.014	.013	.016	<.1	<.1	<.1	1.5	
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--	

## 01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

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

Part 4 of 5

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

Date	Arsenic		Barium		Beryllium		Boron		Chromium		Copper		Iron		Lead,
	water, fltrd, µg/L (01000)	water, unfltrd (01002)	water, recover (01007)	water, unfltrd (01012)	water, recover (01020)	water, unfltrd (01022)	water, recover (01027)	water, unfltrd (01034)	water, recover (01040)	water, unfltrd (01042)	water, recover (01045)	water, unfltrd (01049)	water, recover (01051)	water, unfltrd (01051)	water, recover (01051)
Nov 16...	--	--	--	--	31	--	--	--	--	--	--	--	--	--	--
Feb 27...	E.11	<.20	15.9	<.06	29	29	E.02	<.60	--	E.9	49	--	.16		
May 21...	--	--	--	--	31	--	--	--	--	--	--	--	--	--	--
Jun 14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 28...	<.12	--	--	--	--	--	--	--	<.40	--	--	E.07	--		
28...	.18	.26	18.7	<.06	39	41	.02	<.60	--	1.5	37	--	.28		
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Part 5 of 5

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

Date	Manganese		Mercury		Nickel		Silver		Zinc,		Methyl-	
	water, unfltrd recover (01055)	water, filtrd, able, µg/L (71890)	Mercury water, unfltrd recover (50286)	water, low level ng/L (71900)	Nickel water, recover (01065)	water, filtrd, able, µg/L (71900)	Nickel, water, recover (01067)	water, unfltrd recover (01147)	water, unfltrd recover (01077)	water, filtrd, able, µg/L (01090)	water, recover (01092)	mercury water, unfltrd recover low level ng/L (50284)
Nov 16...	--	--	--	--	--	--	--	--	--	--	--	--
Feb 27...	5.8	--	--	E.006	--	.49	E.04	<.02	--	3	--	
May 21...	--	--	--	--	--	--	--	--	--	--	--	--
Jun 14...	--	--	.04	--	--	--	--	--	--	--	<.04	
14...	--	--	1.06	--	--	--	--	--	--	--	--	<.04
Aug 28...	--	<.010	--	--	E.05	--	--	--	<.60	--	--	
28...	5.5	--	--	<.010	--	.57	E.05	<.02	--	2.4	--	
Sep 06...	--	--	<.04	--	--	--	--	--	--	--	<.04	
06...	--	--	.84	--	--	--	--	--	--	--	.07	

## 01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

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

Part 1 of 7

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

Date	1-Naph-thol, water, 0.7u GF	2,6-Di-ethyl-aniline water, 0.7u GF	2Chloro- -2',6'-diethyl acetanilide water, wat flt	CIAT, water, 0.7u GF	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, 0.7u GF	3,4-Di-chloro-aniline water, fltrd, 0.7u GF	3,5-Di-chloro-aniline water, fltrd, 0.7u GF	4-Chloro- 2methyl-phenol, water, fltrd, 0.7u GF	Aceto-chlor, water, fltrd, 0.7u GF	Ala-chlor, water, fltrd, 0.7u GF	alpha-Endosulfan, water, fltrd, 0.7u GF	Atra-zine, water, fltrd, 0.7u GF	Azin-phos-methyl oxon, water, fltrd, 0.7u GF
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
May 21...	<.09	<.006	<.006	E.005	<.010	<.004	<.012	<.005	<.006	<.005	<.011	E.004	<.04

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

Part 2 of 7

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

Date	Azin-phos-methyl, water, 0.7u GF	Ben-flur-alin, water, 0.7u GF	Car-baryl, water, 0.7u GF	Carbo-furan, water, 0.7u GF	Chlor-pyrifos oxon, 0.7u GF	Chlor-pyrifos water, 0.7u GF	Per-methrin water, 0.7u GF	Propi-conazole, water, 0.7u GF	Cyana-zine, water, 0.7u GF	Cyflu-thrin, water, 0.7u GF	Lambda-cyathrin, water, 0.7u GF	Cyhalothrin, water, 0.7u GF	Cyper-methrin, water, 0.7u GF	DCPA, water, 0.7u GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	
May 21...	<.080	<.010	<.060	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	

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

Part 3 of 7

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

Date	Desulf-inyl-fipro-nil, water, 0.7u GF	Diazi-non, water, 0.7u GF	Dicro-tophos, water, 0.7u GF	Diel-drin, water, 0.7u GF	Dimeth-oate, water, 0.7u GF	Disulf-ton, sulfone water, 0.7u GF	Disul-foton, water, 0.7u GF	Endo-sulfan, water, 0.7u GF	EPTC, sulfate water, 0.7u GF	Ethion, monoxon water, 0.7u GF	Ethion, water, 0.7u GF	Etho-prop, filtrd, water, 0.7u GF	Fenami-phos sulfone, water, 0.7u GF
	µg/L (62170)	µg/L (39572)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
May 21...	<.012	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

## 01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

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

Part 4 of 7

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

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-amide, wat flt µg/L (62169)	Fipro-nil sulfide µg/L (62167)	Fipro-nil sulfone µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
May 21...	<.04	<.03	<.029	<.013	<.024	E.004	<.006	<.026	<.026	<.011	<.039	<.016	<.007

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

Part 5 of 7

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

Date	Methi-althion water, fltrd, µg/L (61598)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, 0.7u GF µg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, 0.7u GF µg/L (61666)	Phorate oxon, water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet oxon, water, fltrd, µg/L (61601)
May 21...	<.009	<.02	<.008	<.010	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008

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

Part 6 of 7

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

Date	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, 0.7u GF µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Propanil, water, fltrd, 0.7u GF µg/L (82679)	Propar-gite, water, fltrd, 0.7u GF µg/L (82685)	Tebu-simazine, water, fltrd, 0.7u GF µg/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF µg/L (82670)	Ter-bufos, Teflu-thrin, oxon sulfone water, water, fltrd, fltrd, µg/L µg/L (61606)	Terbu-fos, Terbu-thiazine, water, water, fltrd, fltrd, µg/L µg/L (61674) (82675)	Ter-butyl-azine, water, water, fltrd, fltrd, µg/L µg/L (04022) (04022)	Thio-bencarb, water, water, fltrd, fltrd, µg/L µg/L (82681) (79847)	trans-Propi-conazole, water, water, fltrd, fltrd, µg/L µg/L (82681) (79847)	
May 21...	<.01	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03

**01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued****WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO  
SEPTEMBER 2007**

Part 7 of 7

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

Date	Tri- flur- alin, phos, water, water, filtrd, μg/L (61610)	chlor- vos, water, 0.7u GF μg/L (82661)	Di- filtrd, μg/L (38775)
<b>May 21...</b>	<.035	<.009	<.01