



Water-Data Report 2010

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 mi².

SURFACE-WATER RECORDS

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

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft ³ /s
Nov 23, 2009	0.29
Feb 4, 2010	0.37
May 18, 2010	0.19
Sep 17, 2010	e0.03

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued**WATER-QUALITY RECORDS**

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

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

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 2009 TO SEPTEMBER 2010**

Part 1 of 7

[%; percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (50624)	Absorbance, UV, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)
11-23-2009	1130	Surface water	Regular	767	10.0	.084	.062	.29	11.4	
02-04-2010	0920	QC sample - Artificial	Field Blank	--	--	--	--	--	--	--
02-04-2010	1000	Surface water	Regular	764	-2.0	.037	.027	.37	14.3	
05-18-2010	1100	Surface water	Regular	754	12.0	.046	.036	.19	10.6	
09-17-2010	1045	Surface water	Regular	754	20.0	.048	.036	E .03	7.3	

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 7

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Date	Dissolved oxygen, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, standard units (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids, dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, sum of constituents, milligrams per liter (70301)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)
11-23-2009	98	7.5	183	8.9	.7	126	E 113	52.1	1	
02-04-2010	--	--	--	--	--	--	--	--	--	
02-04-2010	100	6.8	132	.8	1.2	90	E 86	37.6	< 1	
05-18-2010	97	7.3	118	11.5	2.2	92	80	34.0	4	
09-17-2010	75	7.2	119	16.8	.5	90	E 88	36.6	1	

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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Date	Calcium, water, filtered, mg/L (00915)	Magne- sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	CaCO ₃ laboratory, mg/L as (90410)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, suspended sediment, total, mg/L (00694)	Carbon (inorganic plus organic), water, filtered, mg/L (00940)	Chloride, water, filtered, mg/L (00950)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)
11-23-2009	13.2	4.69	.82	13.9	35	.28	23.8	E .07	< .06	20.3	
02-04-2010	--	--	--	--	--	--	--	--	--	--	--
02-04-2010	9.11	3.60	.44	7.84	28	E .07	13.3	E .06	< .06	19.5	
05-18-2010	8.47	3.13	.54	7.82	29	.20	9.16	.08	< .06	20.2	
09-17-2010	8.91	3.49	.72	7.93	25	.29	8.06	E .06	< .06	22.7	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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Date	Ammonia		Nitrate		Orthophos- phate		Particulate		Total	
	Sulfate, water, filtered, mg/L (00945)	plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	plus nitrite, water, filtered, mg/L as N (00631)	water, filtered, mg/L as P (00671)	water, filtered, mg/L (49570)	suspended in water, mg/L (00666)	water, filtered, mg/L as P (00665)	water, unfiltered, mg/L as P (00665)	water, filtered, mg/L (00602)
11-23-2009	14.6	.14	< .010	< .04	E .008	< .03	E .005	E .007	< .18	
02-04-2010	--	--	--	--	--	--	--	--	--	--
02-04-2010	14.5	< .10	.167	.09	E .007	< .03	E .007	E .005	< .19	
05-18-2010	13.0	E .07	< .010	.10	--	< .03	E .008	.014	E .17	
09-17-2010	14.9	E .10	.014	1.27	--	E .02	.015	.018	E .14	

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WATER-QUALITY DATA
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Part 5 of 7

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Date	Total nitrogen, water, unfiltered, recover- able, µg/L (00600)	Barium, water, unfiltered, recover- able, µg/L (01007)	Beryllium, water, unfiltered, recover- able, µg/L (01012)	Cadmium, water, unfiltered, recover- able, µg/L (01027)	Chromium, water, unfiltered, recover- able, µg/L (01034)	Copper, water, unfiltered, recover- able, µg/L (01040)	Iron, water, unfiltered, recover- able, µg/L (01042)	Lead, water, unfiltered, recover- able, µg/L (01049)	Lead, water, unfiltered, recover- able, µg/L (01051)
11-23-2009	< .21	--	--	--	--	--	--	--	--
02-04-2010	--	--	--	--	--	< 1.0	--	--	< .03
02-04-2010	< .23	9.7	< .04	< .04	E .28	--	E .70	30	-- .07
05-18-2010	< .20	--	--	--	--	--	--	--	--
09-17-2010	E 1.4	14.6	< .04	< .04	< .42	--	E .99	20	-- E .04

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Date	Manganese, water, unfiltered, recoverable, µg/L (01055)	Mercury, water, filtered, µg/L (71890)	Mercury, water, unfiltered, recover- able, µg/L (71900)	Nickel, water, filtered, µg/L (01065)	Nickel, water, unfiltered, recover- able, µg/L (01067)	Silver, water, unfiltered, recover- able, µg/L (01077)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recover- able, µg/L (01092)	Arsenic, water, filtered, µg/L (01000)	Arsenic, water, unfiltered, µg/L (01002)
11-23-2009	--	--	--	--	--	--	--	--	--	--
02-04-2010	--	< .010	--	< .12	--	--	< 2.8	--	.06	--
02-04-2010	1.0	--	< .010	--	.39	< .02	--	E 1.6	E .28	E .34
05-18-2010	--	--	--	--	--	--	--	--	--	--
09-17-2010	3.4	--	< .010	--	.45	< .02	--	4.0	.18	.61

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Date	Boron, water, unfiltered, recoverable, micrograms per liter (01022)	Selenium, water, unfiltered, µg/L (01147)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
11-23-2009	--	--	.28	3.2
02-04-2010	--	--	--	--
02-04-2010	30	E .05	< .12	1.5
05-18-2010	--	--	.20	2.1
09-17-2010	32	E .08	.29	1.7