Water-Data Report 2010

01594440 PATUXENT RIVER NEAR BOWIE, MD

Upper Chesapeake Basin
Patuxent Subbasin

LOCATION.--Lat 38°57'21.3", long 76°41'37.3" referenced to North American Datum of 1983, Anne Arundel County, MD, Hydrologic Unit 02060006, on left bank 45 ft upstream from bridge on U.S. Highway 50 (John Hanson Highway), 3.0 mi east of Bowie City Hall, 3.1 mi downstream from mouth of Little Patuxent River, 4.2 mi northwest of Davidsonville, and 60 mi upstream from mouth.

DRAINAGE AREA.--348 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1955 to June 1977 (gage heights and discharge measurements only), June 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 13.10 ft above National Geodetic Vertical Datum of 1929. Prior to June 27, 1977, nonrecording gage at same site and datum.

REMARKS.--Records good except those above 5000 ft^3/s and those for estimated daily discharges (missing record), which are fair. Flow regulated by T. Howard Duckett Reservoir, usable capacity 5,600,000,000 gal, 21 mi upstream from station. U.S. Geological Survey satellite collection platform at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,780 ft^3/s, Mar. 14, gage height, 13.98 ft; minimum discharge, 100 ft^3/s, Oct. 11, 14.

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	127	351	398	678	390	665	513	342	203	135	118	128
2	120	436	357	596	401	779	472	330	204	123	114	125
3	122	331	1,100	455	418	779	445	397	193	118	115	122
4	119	317	983	428	443	789	429	541	289	114	206	119
5	114	303	509	437	414	674	414	422	205	111	225	116
6	109	294	872	418	381	574	410	268	204	112	163	111
7	107	283	549	407	496	534	397	245	226	108	127	114
8	106	280	622	405	765	514	383	234	182	107	112	112
9	104	279	1,970	394	1,090	494	707	225	169	105	109	107
10	104	243	3,770	377	1,330	474	501	219	189	199	108	108
11	103	217	1,540	367	1,300	584	400	224	185	183	105	105
12	104	647	1,240	392	1,140	1,090	381	314	163	195	e425	187
13	105	972	1,210	371	1,060	2,870	369	563	159	528	1,460	242
14	105	778	1,720	372	993	5,120	480	506	158	994	823	143
15	132	437	708	372	960	2,050	616	591	150	735	242	122
16	288	336	495	376	939	1,080	430	419	175	233	363	119
17	489	292	448	467	692	739	353	262	197	229	214	124
18	1,600	259	426	1,110	459	587	337	360	161	167	887	127
19	1,060	249	435	589	520	534	336	344	147	235	1,700	117
20	315	568	440	463	577	528	330	279	141	181	341	114
21	227	526	497	434	596	606	334	251	138	142	222	109
22	190	326	480	456	699	814	447	229	135	132	198	121
23	174	300	464	459	1,040	1,150	359	340	233	125	237	153
24	241	819	622	583	1,270	893	331	635	149	119	407	121
25	557	1,030	763	1,320	1,130	710	351	446	129	138	257	115
26	319	546	2,880	1,190	923	648	982	268	124	265	177	113
27	372	428	4,640	523	646	612	929	237	128	152	158	312
28	1,620	398	1,940	447	617	476	609	286	199	126	144	339
29	1,670	365	1,560	414	---	1,370	511	282	328	121	139	188
30	414	357	1,370	389	---	1,720	359	231	159	134	136	1,600
31	315	---	633	376	---	930	---	208	---	127	134	---
Total	11,532	12,967	35,641	16,065	21,689	31,387	13,915	10,498	5,422	6,493	10,166	5,733
Mean	372	432	1,150	518	775	1,012	464	339	181	209	328	191
Max	1,670	1,030	4,640	1,320	1,330	5,120	982	635	328	994	1,700	1,600
Min	103	217	357	367	381	474	330	208	124	105	105	105
Cfsm	1.07	1.24	3.30	1.49	2.23	2.91	1.33	0.97	0.52	0.60	0.94	0.55
In.	1.23	1.39	3.81	1.72	2.32	3.36	1.49	1.12	0.58	0.69	1.09	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	270	323	432	460	481	595	513	461	384	235	205	264
Max	1,093	937	1,357	1,316	1,232	1,358	1,247	1,291	1,320	579	532	1,358
(WY)	(1980)	(2004)	(1997)	(1978)	(1979)	(1993)	(1983)	(1989)	(2003)	(1996)	(1979)	(1979)
Min	80.4	108	128	119	142	173	167	154	115	97.3	86.1	65.2
(WY)	(1987)	(1982)	(1999)	(1981)	(2002)	(1981)	(1985)	(1986)	(1991)	(1999)	(1987)	(1986)

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

SUMMARY STATISTICS

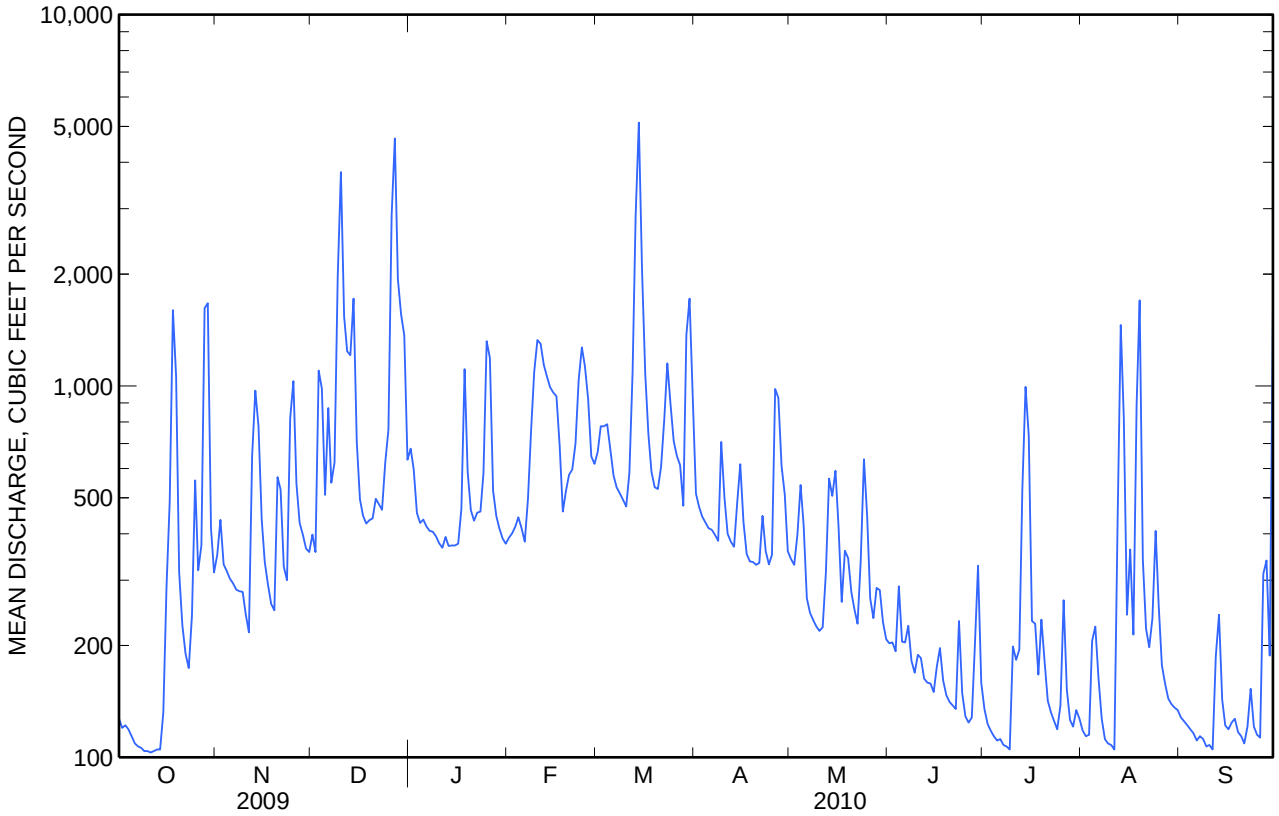
	Calendar Year 2009		Water Year 2010		Water Years 1977 - 2010	
Annual total	157,177		181,508			
Annual mean	431		497		386	
Highest annual mean					648	2003
Lowest annual mean					170	2002
Highest daily mean	4,640	Dec 27	5,120	Mar 14	8,860	Jan 27, 1978
Lowest daily mean	103	Oct 11	103	Oct 11	56	Sep 17, 1986[a]
Annual seven-day minimum	104	Oct 8	104	Oct 8	57	Sep 15, 1986
Maximum peak flow			5,780	Mar 14	[b]31,100	Jun 22, 1972
Maximum peak stage			13.98	Mar 14	[c]27.90	Jun 22, 1972
Instantaneous low flow			100	Oct 11[d]	32	Aug 9, 1966
Annual runoff (cfsm)	1.24		1.43		1.11	
Annual runoff (inches)	16.80		19.40		15.05	
10 percent exceeds	976		1,060		785	
50 percent exceeds	225		360		233	
90 percent exceeds	122		119		106	

[a] Sept. 17-19, 1986.

[b] From rating curve extended above 9,200 ft³/s on basis of contracted-opening measurement of peak flow.

[c] From floodmarks.

[d] Oct. 11, 14.



01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978-80, 1985 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1977 to September 1980, October 1984 to September 1991.
WATER TEMPERATURE: December 1977 to September 1980, October 1984 to September 1991.
SUSPENDED-SEDIMENT DISCHARGE: October 1985 to September 1991.

REMARKS.--Water-quality samples are collected from bridge on Governor Bridge Road located 0.3 mi downstream from U.S. Highway 50 (John Hanson Highway).

EWI, Equal-width increment.

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 6

[%, percent; CaCO3, calcium carbonate; N, nitrogen; P, phosphorus; SiO2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Discharge, instantaneous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
10-06-2009	0930	Surface water	Regular	762	--	106	9.1	91	8.2
10-19-2009	0845	Surface water	Regular	765	10.0	1,240	9.4	81	7.1
11-12-2009	0930	Surface water	Regular	761	4.5	552	10.1	91	7.6
11-12-2009	*0935*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
12-03-2009	0745	Surface water	Regular	--	11.0	783	--	--	7.5
12-09-2009	1300	Surface water	Regular	--	13.5	1,880	--	--	7.5
01-12-2010	0945	Surface water	Regular	766	-1.0	409	13.5	98	7.5
01-25-2010	1045	Surface water	Regular	741	18.0	1,150	11.5	99	7.7
02-17-2010	0845	Surface water	Regular	752	.5	840	13.2	96	7.7
03-05-2010	1145	Surface water	Replicate	760	10.5	677	11.8	94	7.1
03-05-2010	*1150*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
03-05-2010	*1151*	*QC sample - Surface water*	*Other QA*	--	--	--	*11.7*	--	*7.1*
03-05-2010	*1152*	*QC sample - Surface water*	*Other QA*	--	*10.5*	--	*11.8*	--	*7.1*
03-05-2010	*1153*	*QC sample - Surface water*	*Other QA*	--	--	--	*11.9*	--	*7.2*
03-14-2010	0845	Surface water	Replicate	745	9.5	5,490	10.0	89	6.8
03-14-2010	*0850*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
03-14-2010	*0851*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
03-14-2010	*0852*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
03-14-2010	*0853*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
04-06-2010	0830	Surface water	Regular	760	25.5	409	8.9	92	7.5
04-26-2010	0845	Surface water	Regular	745	13.0	640	8.9	89	6.8
05-04-2010	0845	Surface water	Regular	762	25.0	552	7.8	85	8.1
05-13-2010	0845	Surface water	Regular	772	15.0	680	9.1	89	7.9
06-08-2010	*1040*	*QC sample - Artificial*	*Blank*	--	--	--	--	--	--
06-08-2010	1100	Surface water	Regular	772	24.5	181	7.7	85	7.9
07-07-2010	0845	Surface water	Replicate	769	33.0	106	6.8	83	7.5
07-07-2010	*0850*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
07-10-2010	1615	Surface water	Regular	757	26.0	292	6.7	81	7.5
08-05-2010	0830	Surface water	Regular	760	25.0	222	7.2	88	8.0
08-12-2010	1115	Surface water	Regular	762	32.0	450	6.8	83	7.6
08-19-2010	1030	Surface water	Replicate	759	27.5	1,940	6.4	74	6.7
08-19-2010	*1035*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
08-19-2010	*1036*	*QC sample - Surface water*	*Other QA*	--	--	--	*6.5*	--	*6.9*
08-19-2010	*1037*	*QC sample - Surface water*	*Other QA*	--	--	--	*6.4*	--	*6.8*
08-19-2010	*1038*	*QC sample - Surface water*	*Other QA*	--	--	--	*6.4*	--	*6.7*
09-02-2010	0800	Surface water	Regular	765	25.0	122	7.5	88	7.8
09-27-2010	1015	Surface water	Regular	762	23.5	384	7.9	88	8.1
09-30-2010	1430	Surface water	Regular	750	25.0	1,840	7.2	82	7.1

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

[%, percent; CaCO3, calcium carbonate; N, nitrogen; P, phosphorus; SiO2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Sampler type (84164)	Sampling method (82398)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as CaCO3 (00900)
10-06-2009	--	357	357	15.4	Weighted-bottle	Multiple verticals	--	--
10-19-2009	--	197	186	8.9	US D-95 Teflon	EWI	--	--
11-12-2009	7.4	274	272	10.6	Weighted-bottle	Multiple verticals	159	71.0
11-12-2009	*7.1*	*283*	--	--	*Weighted-bottle*	*Multiple verticals*	*156*	*72.5*
12-03-2009	--	229	220	10.7	Weighted-bottle	Multiple verticals	--	--
12-09-2009	--	257	136	7.7	US D-95 Teflon	EWI	--	--
01-12-2010	--	472	472	2.2	Weighted-bottle	Multiple verticals	--	--
01-25-2010	--	286	283	7.9	US D-95 Teflon	EWI	--	--
02-17-2010	7.5	596	627	1.9	Weighted-bottle	Multiple verticals	332	68.2
03-05-2010	--	--	411	5.6	Weighted-bottle	Multiple verticals	--	--
03-05-2010	--	--	--	--	*Weighted-bottle*	*Composite multi pnt*	--	--
03-05-2010	--	--	*409*	*5.5*	*Weighted-bottle*	*Grab sample(dip)*	--	--
03-05-2010	--	--	*411*	*5.6*	*Weighted-bottle*	*Grab sample(dip)*	--	--
03-05-2010	--	--	*413*	*5.6*	*Weighted-bottle*	*Grab sample(dip)*	--	--
03-14-2010	--	263	253	9.1	Weighted-bottle	Multiple verticals	--	--
03-14-2010	--	*270*	--	--	--	--	--	--
03-14-2010	--	*267*	--	--	--	--	--	--
03-14-2010	--	*263*	--	--	--	--	--	--
03-14-2010	--	*247*	--	--	--	--	--	--
04-06-2010	--	353	337	16.8	Weighted-bottle	Multiple verticals	--	--
04-26-2010	--	378	367	14.1	Weighted-bottle	Multiple verticals	--	--
05-04-2010	--	315	292	19.5	Weighted-bottle	Multiple verticals	--	--
05-13-2010	--	346	331	14.9	Weighted-bottle	Multiple verticals	--	--
06-08-2010	--	*5*	--	--	--	--	--	--
06-08-2010	--	389	377	20.8	Weighted-bottle	Multiple verticals	--	--
07-07-2010	--	396	386	25.6	Weighted-bottle	Multiple verticals	--	--
07-07-2010	--	*394*	--	--	*Weighted-bottle*	*Multiple verticals*	--	--
07-10-2010	--	264	257	24.5	Weighted-bottle	Multiple verticals	--	--
08-05-2010	--	295	290	25.1	Weighted-bottle	Multiple verticals	--	--
08-12-2010	--	338	333	25.4	Weighted-bottle	Multiple verticals	--	--
08-19-2010	7.3	153	155	22.6	US DH-95 Teflon	EWI	112	35.7
08-19-2010	*7.3*	*152*	--	--	*US DH-95 Teflon*	*EWI*	*94*	*34.2*
08-19-2010	--	*159*	*155*	*22.6*	*US DH-95 Teflon*	*Single vertical*	--	--
08-19-2010	--	*160*	*155*	*22.6*	*US DH-95 Teflon*	*Single vertical*	--	--
08-19-2010	--	*160*	*155*	*22.6*	*US DH-95 Teflon*	*Single vertical*	--	--
09-02-2010	--	384	367	23.7	Weighted-bottle	Multiple verticals	--	--
09-27-2010	--	348	327	20.5	Weighted-bottle	Multiple verticals	--	--
09-30-2010	7.8	166	168	20.6	US DH-95 Teflon	EWI	113	35.9

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 6

[%, percent; CaCO3, calcium carbonate; N, nitrogen; P, phosphorus; SiO2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Suspended solids remaining after ignition, water, unfiltered, mg/L (00540)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO3 (29801)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO3 (39086)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)
10-06-2009	< 15	< 15	--	--	--	--	--	--	.37	--
10-19-2009	32	42	--	--	--	--	--	--	1.66	--
11-12-2009	28	40	19.7	5.29	4.59	21.2	48	46	1.93	--
11-12-2009	*28*	*39*	*20.3*	*5.31*	*4.63*	*21.2*	*49*	*46*	*2.01*	*37.4*
12-03-2009	71	86	--	--	--	--	--	--	4.00	--
12-09-2009	69	83	--	--	--	--	--	--	3.51	--
01-12-2010	< 15	< 15	--	--	--	--	--	--	.52	--
01-25-2010	39	51	--	--	--	--	--	--	2.14	--
02-17-2010	< 15	< 15	18.6	5.26	3.03	73.1	34	--	.82	151
03-05-2010	< 38	38	--	--	--	--	--	--	.42	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	130	156	--	--	--	--	--	--	4.29	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
04-06-2010	< 15	< 15	--	--	--	--	--	--	.72	--
04-26-2010	81	101	--	--	--	--	--	--	4.38	--
05-04-2010	31	44	--	--	--	--	--	--	2.05	--
05-13-2010	118	134	--	--	--	--	--	--	5.02	--
06-08-2010	*< 15*	*< 15*	--	--	--	--	--	--	--	--
06-08-2010	.0	19	--	--	--	--	62	59	.67	--
07-07-2010	< 5	< 15	--	--	--	--	--	--	.54	--
07-07-2010	*< 2*	*< 15*	--	--	--	--	--	--	*.55*	--
07-10-2010	.0	31	--	--	--	--	--	--	1.77	--
08-05-2010	< 48	48	--	--	--	--	--	--	.95	--
08-12-2010	.0	151	--	--	--	--	--	--	9.43	--
08-19-2010	< 33	33	10.1	2.55	2.78	13.1	27	24	1.36	20.8
08-19-2010	*< 31*	*31*	*9.56*	*2.50*	*2.76*	*13.0*	*27*	*24*	*1.48*	*21.0*
08-19-2010	--	--	--	--	--	--	--	--	--	--
08-19-2010	--	--	--	--	--	--	--	--	--	--
08-19-2010	--	--	--	--	--	--	--	--	--	--
09-02-2010	< 20	20	--	--	--	--	--	--	.76	--
09-27-2010	41	52	--	--	--	--	--	--	3.28	--
09-30-2010	159	193	10.2	2.56	3.73	15.8	28	--	5.49	25.3

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 6

[%, percent; CaCO3, calcium carbonate; N, nitrogen; P, phosphorus; SiO2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, filtered, mg/L (00607)	Orthophosphate, water, filtered, mg/L (00660)
10-06-2009	--	< .06	8.1	--	.046	1.19	1.19	.005	.38	.066
10-19-2009	--	< .06	5.9	--	.026	.68	.675	.003	.30	.047
11-12-2009	--	< .06	7.63	--	E .017	1.14	1.14	.005	E .31	.053
11-12-2009	*.14*	*< .06*	*7.82*	*17.0*	*E .019*	*1.15*	*1.14*	*.005*	*E .29*	*.053*
12-03-2009	--	E .11	7.0	--	.033	.99	.988	.006	.25	.039
12-09-2009	--	E .05	6.0	--	.031	.80	.791	.006	.20	.040
01-12-2010	--	< .06	10.1	--	.102	1.90	1.89	.007	.26	.034
01-25-2010	--	E .04	6.8	--	.051	1.41	1.40	.007	.29	E .022
02-17-2010	E .07	E .05	7.5	13.6	.067	1.80	1.79	.013	.20	E .022
03-05-2010	--	< .06	7.5	--	.035	1.27	1.26	.006	.22	E .020
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	E .09	4.0	--	.050	.54	.533	.008	.29	.029
03-14-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--	--
04-06-2010	--	< .06	6.1	--	.086	1.28	1.27	.012	.19	.025
04-26-2010	--	< .06	7.3	--	.075	1.45	1.43	.016	.31	.029
05-04-2010	--	< .06	6.4	--	.071	1.39	1.36	.023	.25	.028
05-13-2010	--	.12	7.4	--	.086	1.41	1.39	.023	.29	.040
06-08-2010	--	--	*< .1*	--	*E .011*	*< .04*	*< .040*	*< .002*	*< .09*	*< .025*
06-08-2010	--	< .06	9.1	--	.066	1.39	1.38	.014	.22	.062
07-07-2010	--	< .06	7.5	--	.068	1.31	1.30	.015	.32	.107
07-07-2010	--	*E .04*	*7.7*	--	*.070*	*1.32*	*1.31*	*.015*	*.29*	*.108*
07-10-2010	--	< .06	4.7	--	.105	.77	.749	.021	.35	.081
08-05-2010	--	< .06	6.1	--	.068	.87	.855	.014	.27	.102
08-12-2010	--	E .10	6.0	--	.099	.92	.899	.021	.32	.061
08-19-2010	.10	E .06	5.52	9.48	.037	.43	.420	.007	.43	.080
08-19-2010	*.10*	*< .06*	*5.64*	*9.53*	*.035*	*.42*	*.412*	*.007*	*.41*	*.070*
08-19-2010	--	--	--	--	--	--	--	--	--	--
08-19-2010	--	--	--	--	--	--	--	--	--	--
08-19-2010	--	--	--	--	--	--	--	--	--	--
09-02-2010	--	E .08	8.1	--	.061	1.18	1.17	.011	.32	.081
09-27-2010	--	< .06	6.2	--	.098	.95	.930	.025	.22	.088
09-30-2010	.11	< .06	4.01	9.32	.021	.52	.514	.006	.28	.104

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 6

[%, percent; CaCO3, calcium carbonate; N, nitrogen; P, phosphorus; SiO2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Orthophosphate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, mg/L (00600)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)	Organic carbon, suspended sediment, total, mg/L (00689)
10-06-2009	.022	.07	.032	.075	1.62	1.7	--	--	.37
10-19-2009	.015	.19	.025	.125	1.01	1.2	--	--	1.66
11-12-2009	.017	.19	.024	.141	1.47	1.7	271	109	1.93
11-12-2009	*.017*	*.17*	*.024*	*.136*	*1.46*	*1.6*	*266*	*111*	*2.01*
12-03-2009	.013	.32	.024	.210	1.27	1.6	--	--	3.88
12-09-2009	.013	.26	.023	.181	1.03	1.3	--	--	3.46
01-12-2010	.011	E .02	.019	.044	2.26	E 2.3	--	--	.52
01-25-2010	E .007	.20	.012	.102	1.75	1.9	--	--	2.10
02-17-2010	E .007	E .03	.006	.039	2.08	E 2.1	106	83.2	.77
03-05-2010	E .007	< .03	.009	.034	1.53	< 1.6	--	--	.42
03-05-2010	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--
03-05-2010	--	--	--	--	--	--	--	--	--
03-14-2010	.009	.36	.018	.317	.88	1.2	--	--	4.20
03-14-2010	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--
03-14-2010	--	--	--	--	--	--	--	--	--
04-06-2010	.008	.18	.009	.039	1.56	1.7	--	--	.72
04-26-2010	.010	.44	.014	.161	1.83	2.3	--	--	4.38
05-04-2010	.009	.25	.018	.101	1.70	2.0	--	--	2.05
05-13-2010	.013	.46	.014	.185	1.79	2.2	--	--	4.90
06-08-2010	*< .008*	--	*< .006*	*< .008*	*< .10*	--	--	--	--
06-08-2010	.020	.06	.023	.073	1.68	1.7	--	--	.67
07-07-2010	.035	.04	.044	.121	1.69	1.7	--	--	.53
07-07-2010	*.035*	*.07*	*.044*	*.096*	*1.68*	*1.8*	--	--	*.51*
07-10-2010	.026	.12	.036	.180	1.22	1.3	--	--	1.75
08-05-2010	.033	--	.042	.107	1.21	--	--	--	.95
08-12-2010	.020	--	.030	.471	1.34	--	--	--	9.33
08-19-2010	.026	.11	.040	.128	.90	1.0	363	72.6	1.30
08-19-2010	*.023*	*.14*	*.038*	*.126*	*.86*	*1.0*	*357*	*72.6*	*1.46*
08-19-2010	--	--	--	--	--	--	--	--	--
08-19-2010	--	--	--	--	--	--	--	--	--
08-19-2010	--	--	--	--	--	--	--	--	--
09-02-2010	.027	.08	.031	.077	1.56	1.6	--	--	.68
09-27-2010	.029	--	.035	.218	1.27	--	--	--	3.26
09-30-2010	.034	.63	.045	.383	.82	1.5	165	109	5.49

01594440 PATUXENT RIVER NEAR BOWIE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 6

[%, percent; CaCO3, calcium carbonate; N, nitrogen; P, phosphorus; SiO2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Organic carbon, water, filtered, mg/L (00681)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen tration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-06-2009	3.2	--	10	2.9
10-19-2009	5.0	91	54	181
11-12-2009	4.4	--	50	75
11-12-2009	*4.5*	--	*50*	--
12-03-2009	3.6	94	127	268
12-09-2009	3.4	76	114	579
01-12-2010	2.4	--	8	8.8
01-25-2010	2.8	84	56	174
02-17-2010	2.2	--	17	39
03-05-2010	2.5	--	16	29
03-05-2010	--	--	*13*	--
03-05-2010	--	--	*13*	--
03-05-2010	--	--	*13*	--
03-05-2010	--	--	--	--
03-14-2010	4.8	80	283	4,190
03-14-2010	--	*95*	*220*	--
03-14-2010	--	*99*	*226*	--
03-14-2010	--	*94*	*241*	--
03-14-2010	--	*88*	*213*	--
04-06-2010	3.0	--	13	14
04-26-2010	2.9	92	113	195
05-04-2010	3.2	89	51	76
05-13-2010	3.8	95	140	257
06-08-2010	--	--	*1*	--
06-08-2010	3.2	89	19	9.3
07-07-2010	3.2	--	19	5.4
07-07-2010	*3.2*	--	*17*	--
07-10-2010	4.8	98	40	32
08-05-2010	3.7	--	30	18
08-12-2010	4.2	84	199	242
08-19-2010	6.9	82	42	220
08-19-2010	*7.1*	*91*	*68*	--
08-19-2010	--	*91*	*39*	--
08-19-2010	--	*88*	*67*	--
08-19-2010	--	*95*	*61*	--
09-02-2010	2.9	--	19	6.3
09-27-2010	3.4	93	71	74
09-30-2010	4.8	88	216	1,070