



Water-Data Report 2007

**03049652 ALLEGHENY RIVER AT HULTON BRIDGE AT OAKMONT, PA**

Allegheny Basin  
Lower Allegheny Subbasin

LOCATION.--Lat 40°31'39", long 79°50'51" referenced to North American Datum of 1927, Allegheny County, PA, Hydrologic Unit 05010009.

DRAINAGE AREA.--11,577 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.-- Analysis for pH, water temperature, specific conductance, and dissolved oxygen is performed on site. Inorganic sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa. Some values for filtered parameters exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods.

COOPERATION.--Samples were collected in cooperation with the Pennsylvania Department of Environmental Protection, Bureau of Water Standards and Facility Regulation. Inorganic samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) in cooperation with that agency.

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

Part 1 of 3

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specific conductance, wat unf lab, µS/cm 25 degC (90095)	Specific conductance, wat unf lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, unfltrd recover mg/L (00916)	Magnesium, water, unfltrd recover mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Fluoride, water, unfltrd mg/L (00951)
<b>Nov</b>													
06...	1015	--	13.2	7.1	7.6	165	164	6.9	59	16.4	4.4	29	<.2
<b>Jan</b>													
18...	1100	--	13.8	7.1	7.4	137	139	4.4	49	13.1	3.8	21	<.2
<b>Apr</b>													
09...	1230	--	13.7	7.5	7.6	218	216	4.9	73	19.9	5.7	28	<.2
<b>May</b>													
17...	1015	10,700	9.4	7.5	7.8	272	279	18.1	90	24.0	7.3	32	<.2
<b>Jul</b>													
31...	1245	--	8.5	7.6	8.1	414	414	26.7	130	35.1	10.5	47	<.2
<b>Sep</b>													
18...	1145	--	8.8	7.3	7.9	363	380	22.9	110	31.2	8.4	49	<.2

## 03049652 ALLEGHENY RIVER AT HULTON BRIDGE AT OAKMONT, PA—Continued

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

Part 2 of 3

[Remark codes: &lt;, less than; M, presence verified but not quantified.]

Date	Sulfate water, flt'd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total non- filter- able, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)	Phos- phorus, water, unfltrd mg/L (00665)	Crypto- sporid- ium, mth1623 water, oocysts /10 L (99599)	Giardia method 1623, water, cysts/ 10 L (99597)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Copper, water, unfltrd recover- able, µg/L (01042)
Nov 06...	29.4	138	18	.030	.42	<.040	.65	.02	.028	--	--	300	<10
Jan 18...	26.8	96	38	.030	.56	<.040	.89	<.01	.052	--	--	1,300	<10
Apr 09...	45.4	1,350	6	<.020	.62	<.040	.77	.02	.025	0	1	500	20
May 17...	65.4	156	<2	.030	.40	<.040	.59	<.01	.018	--	--	<200	<10
Jul 31...	94.3	270	<2	.020	.47	<.040	.67	<.01	.012	0	2	<200	<10
Sep 18...	76.7	244	10	.050	.35	<.040	.66	.01	.018	2	0	<200	<4

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

Part 3 of 3

[Remark codes: &lt;, less than; M, presence verified but not quantified.]

Date	Cyanide amen- able to chlor- ination wat unf mg/L (00722)	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)	Nickel, water, unfltrd recover- able, µg/L (01067)	Zinc, water, unfltrd recover- able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
Nov 06...	<1.00	650	<1.0	170	<50	<10	<5
Jan 18...	<1.00	2,240	M	270	<50	210	<5
Apr 09...	<1.00	820	<1.0	220	<50	20	<5
May 17...	<1.00	410	<1.0	230	<50	<10	<5
Jul 31...	<1.00	60	<1.0	40	<50	<10	<5
Sep 18...	<1.00	260	<1.0	100	<50	<10	<5

## 03049652 ALLEGHENY RIVER AT HULTON BRIDGE AT OAKMONT, PA—Continued

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

Part 1 of 3

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

Date	Time	4-EC-tetra-cycline HCl, water, fltrd, µg/L (63731)	4-Epi-oxy-tetra-cycline water, fltrd, µg/L (63729)	4-Epi-tetra-cycline HCl, water, fltrd, µg/L (63727)	An-hydro-erthro-mycin, water, fltrd, µg/L (63674)	Azith-romycin water, fltrd, µg/L (62792)	Carbam-azepine water, fltrd, µg/L (62793)	Chloram-pheni-col, water, fltrd, µg/L (65194)	Chloro-tetra-cycline water, fltrd, µg/L (61744)	Cipro-flox-acin, water, fltrd, µg/L (62898)	Doxy-cycline water, fltrd, 0.7u GF µg/L (62694)	Enro-floxa-cin, water, fltrd, µg/L (66495)	Eryth-romycin water, fltrd, µg/L (62797)
Apr 09...	1240	<.010	<.010	<.010	.016	<.005	<.005	<.100	<.010	<.005	<.010	<.005	<.008
Jul 31...	1255	<.010	<.010	<.010	<.008	<.005	<.005	<.100	<.010	<.005	<.010	<.005	<.008
Sep 18...	1155	<.010	<.010	<.010	<.008	<.005	<.005	<.100	<.010	<.005	<.010	<.005	<.008

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

Part 2 of 3

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

Date	Ibupro-fen, water, fltrd, µg/L (62014)	Iso-chloro-tetra-cycline wat flt µg/L (64175)	Isoepi-chloro-tetra-cycline water, fltrd, µg/L (64047)	Linco-mycin, water, fltrd, µg/L (62894)	Lome-flox-acin, water, fltrd, µg/L (62900)	Nor-flox-acin, water, fltrd, 0.7u GF µg/L (62757)	Oflox-acin, water, fltrd, µg/L (62899)	Ormet-oprim, water, fltrd, µg/L (62962)	Oxy-tetra-cycline water, fltrd, µg/L (61759)	Rox-ithro-mycin, water, fltrd, µg/L (62895)	Sara-flox-acin, water, fltrd, 0.7u GF µg/L (62771)	Sulfa-chlor-pyrid-azine, wat flt µg/L (62774)	Sulfa-diazine water, fltrd, µg/L (62963)
Apr 09...	<.050	<.010	<.010	<.005	<.005	<.005	<.005	<.005	<.010	<.005	<.005	<.005	<.100
Jul 31...	<.050	<.010	<.010	<.005	<.005	<.005	<.005	<.005	<.010	<.005	<.005	<.005	<.100
Sep 18...	<.050	<.010	<.010	<.005	<.005	<.005	<.005	<.005	<.010	<.005	<.005	<.005	<.100

## 03049652 ALLEGHENY RIVER AT HULTON BRIDGE AT OAKMONT, PA—Continued

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

Part 3 of 3

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

Date	Sulfa- dimeth- oxine, water, fltrd, 0.7u GF µg/L (62776)	Sulfa- meth- azine, water, fltrd, µg/L (61762)	Sulfa- methox- azole, water, fltrd, 0.7u GF µg/L (62775)	Sulfa- thi- azole, water, fltrd, 0.7u GF µg/L (62778)	Tetra- cycline water, fltrd, 0.7u GF µg/L (62781)	Tri- meth- oprim, water, fltrd, µg/L (62023)	Tylosin water, fltrd, µg/L (62896)	Vir- ginia- mycin, water, fltrd, µg/L (62897)
Apr 09...	<.005	<.005	<.005	<.020	<.010	<.005	<.005	<.005
Jul 31...	<.005	<.005	.014	<.020	<.010	<.005	<.005	<.005
Sep 18...	<.005	<.005	<.005	<.020	<.010	<.005	<.005	<.005

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

Part 1 of 2

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Acet- amino- phen, water, fltrd, µg/L (62000)	Caf- feine, water, fltrd, µg/L (50305)	Carbam- azepine water, fltrd, µg/L (62793)	Carba- maze- pine- -d10, surrog, wat flt pct rcv (90797)	Codeine water, fltrd, µg/L (62003)	Cot- inine, water, fltrd, µg/L (62005)	De- hydro- nife- dipine, water, fltrd, µg/L (62004)	Diltia- zem, water, fltrd, µg/L (62008)	Diphen- hydra- mine, water, fltrd, µg/L (62796)	Ethyl nico- tinate- d4, surrog, wat flt pct rcv (99571)	Fluox- etine, water, fltrd, µg/L (62011)	p-Xan- thine, water, fltrd, µg/L (62030)
Apr 09...	1241	.058	.09	E.008	121	<.022	<.03	<.022	<.018	E.001	84.8	<.016	<.021
Jul 31...	1256	<.024	E.06	E.012	116	<.022	<.03	<.022	<.018	<.023	80.9	<.016	<.021
Sep 18...	1156	<.024	.04	E.008	105	<.022	M	<.022	<.018	E.004	78.0	<.016	<.021

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

Part 2 of 2

[Remark codes: <, less than; E, estimated; M, presence verified but not  
quantified.]

Date	Raniti- dine, water, fltrd, µg/L (62019)	Salbut- amol, water, fltrd, µg/L (62020)	Sulfa- methox- azole, water, fltrd, µg/L (62021)	Thiaben- dazole, water, fltrd, µg/L (62801)	Tri- meth- oprim, water, fltrd, µg/L (62023)	Warfar- in, water, fltrd, µg/L (62024)
<b>Apr</b> <b>09...</b>	<.025	<.014	<.024	<.025	<.020	<.019
<b>Jul</b> <b>31...</b>	<.025	<.014	E.020	<.025	<.020	<.019
<b>Sep</b> <b>18...</b>	<.025	<.014	E.006	<.025	<.020	<.019

## 03049652 ALLEGHENY RIVER AT HULTON BRIDGE AT OAKMONT, PA—Continued

## ECOLOGICAL RECORDS

COOPERATION.--Water-quality samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Samples were collected using rapid bioassessment protocols for benthic macroinvertebrates using a multiplate sampler that was placed at a depth of 1-2 ft for 5 weeks. Counts are based on a randomly-selected 100-organism (approximate) subsample.

## BIOLOGICAL DATA-BENTHIC MACROINVERTEBRATES

Date	11/14/06
Benthic Macroinvertebrate	Count
Platyhelminthes	•
Turbellaria (FLATWORMS)	•
Tricladida	•
Planariidae	• 2
Mollusca	•
Bivalvia (CLAMS)	•
Veneroida	•
Corbiculidae	•
<i>Corbicula fluminea</i>	• 3
Annelida	•
Oligochaeta (AQUATIC EARTHWORMS)	•
Lumbriculida	•
Lumbriculidae	• 1
Tubificida	•
Naididae	• 55
Tubificidae	• 8
Arthropoda	•
Crustacea	•
Amphipoda (SCUDS)	•
Gammaridae	•
<i>Gammarus</i>	• 8
Insecta	•
Ephemeroptera (MAYFLIES)	•
Caenidae	•
<i>Caenis</i>	• 2
Heptageniidae	•
<i>Maccaffertium</i>	• 1
<i>Stenacron</i>	• 9
Plecoptera (STONEFLIES)	•
Taeniopterygidae	•
<i>Taeniopteryx</i>	• 9
Trichoptera (CADDISFLIES)	•
Hydropsychidae	•
<i>Cheumatopsyche</i>	• 2

**03049652 ALLEGHENY RIVER AT HULTON BRIDGE AT OAKMONT, PA—Continued**

Date	11/14/06
Benthic Macroinvertebrate	Count
Hydroptilidae	•
<i>Hydroptila</i>	• 6
Polycentropodidae	•
<i>Neureclipsis</i>	• 2
Diptera (TRUE FLIES)	•
Ceratopogonidae (BITING MIDGES)	•
<i>Probezzia</i>	• 2
Chironomidae (MIDGES)	170
Empididae (DANCE FLIES)	•
<i>Chelifera</i>	• 7
<i>Hemerodromia</i>	• 2
Total Organisms	289