

Main Menu

- [Fish and Sediment Home](#)
- [Background](#)
- [Special studies](#)
- [Shenandoah mercury](#)
- [Kepone fish data](#)
- [Monitoring stations](#)
- [Fish tissue results](#)
- [Sediment results](#)
- [Fish and sediment reports](#)
- [News releases](#)
- [Links](#)



Fish Tissue and Sediment Monitoring Program

Email: [Darryl Glover](mailto:Darryl.Glover@deq.state.va.us)



The Virginia Department of Environmental Quality is responsible for enforcing the statutes of the State Water Control Board. The Department of Environmental Quality recognizes that many chemical pollutants discharged into state waters by point and non-point sources may impair public uses and/or aquatic life. Specifically, some of these chemical pollutants accumulate and persist in aquatic sediments and in the tissue of aquatic organisms, including game fish, at potentially toxic concentrations. In addition, chemical pollutants that bioaccumulate tend to magnify in concentration as they pass through aquatic food chains and may cause detrimental effects to consumers, including humans. To address these concerns, the Department of Environmental Quality - Office of Water Quality Programs' Fish Tissue and Sediment Contaminants Monitoring Program conducts routine studies of fish tissue and sediment samples in state waters. The program fulfills the Clean Water Act 106 United States Environmental Protection Agency grant requirements and the code of Virginia: Article 1. Section 62.1-44.19:5 which directs Department of Environmental Quality to implement the collection of fish tissue and sediment as part of a multi-phase approach to systematically assess, manage, and communicate the associated risks of contaminants in the

What's New

The fish tissue and sediment monitoring website has been redesigned! Please share your comments with us.

[Fish Tissue results for 2007 collections](#) (9/26/2008)

[South River - Shenandoah River Mercury update 2007](#) (7/21/2008)

[2008 proposed fish tissue and sediment sampling plan](#) (4/24/2008)

[Sediment results for 2006 collections](#) (8/7/2007)

[Mercury Advisory Committee Meeting, September 30, 2005](#) (12/8/2005)

[DEQ issues PCB strategy](#)

aquatic environment.

At least one sediment sample is collected at each station where fish tissue are sampled and analyzed for a suit of bioaccumulative chemical contaminants. These include selected heavy metals, selected non-halogenated organic compounds (PAHs) and halogenated organic compounds (DDT, Chlordane, PCBs, etc.)

The analytical data are assessed to determine the human health risks for individuals who may consume fish from state waters and to identify impaired aquatic ecosystems. The Virginia Department of Health uses the data generated by the program to determine the need for issuing fish consumption advisories. The Department of Environmental Quality and other state and federal agencies also use the data to assess the environmental quality of Virginia's waters.

[Start of Page](#) | [Start of Content](#) | [Web Site Index](#) | [Current Folder Index](#) | [Help](#) | [Web Policy](#) | [Contact Us](#)

Last Updated: 9/26/08

DEQ 2006 Sediment PCBs results

(73 samples - gray colored fonts indicate that sample was not analyzed for pcbs)

preliminary

WBID	DEQ site #	Sampling Date	DEQ rivermile	Stream name/location/description	Latitude	Longitude	% TOC ²	Analyte ³ Sample	ppb ¹ (dry weight basis)	
									Total PCB ³	
				NOAA's Effects Range-Median		ER-M	>>>>			180
				NOAA's Effects Range-Low		ER-L	>>>>			22.7
				Freshwater Consensus-Based Probable Effect Concentration		PEC				676

ROANOKE RIVER BASIN

L01R	34	6/6/2006	4ARSF011.52	South Fork Roanoke River near Alleghany Spring	N37 07.699'	W80 15.971'	0.71	6TS011		0.00
L02R	15	6/6/2006	4ARNF013.60	North Fork Roanoke River	N37 13.020'	W80 16.636'	4.42	6TS008		0.00
L03R	12	6/6/2006	4APBB000.63	Mill Creek (Paint Bank Branch Mill Race)	N37 17.188'	W80 05.294'	0.64	6TS006		0.00
L04R	31	6/5/2006	4AROA216.33	Roanoke River City of Salem below Koppers	N37 16.752'	W80 06.097'	0.35	6PS015		0.00
L04R	10	6/7/2006	4AMSN000.60	Masons Creek	N37 16.562'	W80 01.752'	1.00	6TS005		0.00
L04R	13	6/7/2006	4APEE001.04	Peters Creek, Roanoke at Shenandoah Ave. bridge	N37 16.777'	W80 00.287'	0.74	6TS007		0.00
L04R	30	7/19/2006	4AROA206.80	Roanoke River near Rt. 11 bridge (Ghent Park)	N37 15.947'	W79 58.046'	0.41	6PS014		0.00
L03R	8	6/7/2006	4AMD001.42	Mud Lick Creek near Grandon Road	N37 15.118'	W79 59.884'	0.97	6TS003		0.00
L05R	36	6/9/2006	4ATKR009.30	Tinker Creek near Rt. 11	N37 21.358'	W79 55.773'	1.30	6TS013		0.00
L05R	35	6/9/2006	4ATKR000.17	Tinker Creek near Rt. 24	N37 16.101'	W79 54.258'	1.13	6TS012		0.00
L04L	29	7/19/2006	4AROA199.20	Roanoke River just upstream Niagara Dam	N37 15.268'	W79 52.274'	3.39	6PS013		17.91
L07L	28	7/17/2006	4AROA196.05	Roanoke River near Hardy	N37 12.975'	W79 50.278'	0.20	6PS012		0.00
L07L	27	7/18/2006	4AROA175.63	Smith Mountain Lake near Rt. 122, Hales Ford bridge	N37 08.724'	W79 39.991'	0.73	6PS011		0.00
L10L	2	7/18/2006	4ABWR019.75	Blackwater River near Smith Mountain Lake	N37 02.643'	W79 41.832'	0.39	6PS002		0.00
L18L	14	9/27/2006	4APGG003.29	Pigg River near Leesville Lake	N36 59.303'	W79 29.787'	0.17	6PS005		0.00
L13L	26	7/20/2006	4AROA140.66	Leesville Lake	N37 05.541'	W79 24.195'	0.50	6TS009		0.00
L21R	5	9/21/2006	4AGSF002.16	South Fork Goose Creek near Rt. 607 bridge, Mountain View	N37 22.772'	W79 43.858'	0.83	6TS001		0.00
L30R	24	6/20/2006	4AROA129.95	Roanoke River near Rt. 29 bridge at Altavista	N37 06.294'	W79 17.693'	0.57	6PS010		0.00
L26R	7	9/11/2006	4ALOR007.94	Little Otter River near Rt.784, below Bedford	N37 17.603'	W79 27.346'	1.87	6PS004		12.99
L28R	1	6/8/2006	4ABOR012.18	Big Otter River near Rt. 682 gaging station	N37 12.512'	W79 18.204'	1.51	6PS001		0.00
L36R	22	4/19/2006	4AROA108.09	Roanoke River near Long Island	N37 03.819'	W79 05.265'	0.22	6PS009		0.00
L36R	21	4/18/2006	4AROA097.07	Roanoke River near Brookneal	N37 02.313'	W78 56.763'	1.03	6PS008		28.55
L37R	3	6/21/2006	4ACUB010.96	Cub Creek near Rt.40 gaging station	N37 04.764'	W78 45.809'	0.79	6PS003		0.00
L38L	6	6/21/2006	4AHTA003.26	Hunting Creek (Conner Lake)	N36 55.451'	W78 47.950'	2.27	6TS002		0.00
L38R	20	9/25/2006	4AROA067.91	Roanoke River near Rt. 746	N36 54.933'	W78 44.413'	0.54	6PS007		0.00
L39R	33	6/14/2006	4AROC011.75	Roanoke Creek near Rt. 619	N37 00.241'	W78 38.222'	0.99	6PS016		0.00
L39R	37	9/19/2006	4ATWT009.63	Twittys Creek near Rt. 47 bridge	N36 59.479'	W78 36.000'	0.54	6TS014		0.00
L39R	32	9/13/2006	4AROC005.35	Roanoke Creek near confluence with Twittys Creek	N36 55.843'	W78 39.918'	1.12	6TS010		0.00
L40R	19	4/17/2006	4AROA059.12	Roanoke River near Rt. 360, Clover	N36 49.663'	W78 41.242'	0.79	6PS006		0.00
L75L	18	7/6/2006	4AROA036.59	Kerr Reservoir near Clarksville	N36 37.479'	W78 33.016'				
L75L	17	7/6/2006	4AROA028.04	Roanoke River (Kerr Res. near Ivy Hill, Buoy 9)	N36 35.6002'	W78 25.512'				
L75L	4	7/5/2006	4AEAS001.20	Eastland Creek near Kerr Reservoir	N36 36.073'	W78 22.594'				
L75L	11	7/5/2006	4ANUT001.50	Nutbush Creek near Kerr Reservoir	N36 33.129'	W78 19.437'				
L79L	9	6/12/2006	4AMES007.54	Miles Creek (Lake Gordon)	N36 41.423'	W78 12.936'	2.96	6TS004		0.00
L80L	16	8/3/2006	4AROA004.54	Lake Gaston near NC-VA State Line	N36 32.885'	W78 07.038'				

RAPPAHANNOCK RIVER BASIN

E02R	46	5/25/2006	3-GRT001.70	Great Run near Rt. 687	N38 38.568'	W77 51.561'	1.41	6PS022		0.00
E08R	66	10/4/2006	3-RPP142.36	Rappahannock River, Kelly's Ford Rt. 620	N38 28.655'	W77 46.838'	2.64	6PS037		0.00
E09R	53	5/18/2006	3-MTN022.21	Mountain Run in Culpeper	N38 28.556'	W77 59.103'	0.46	6TS019		0.00
E09R	52	5/18/2006	3-MTN005.79	Mountain Run near Rt. 620/672 bridge	N38 27.626'	W77 48.824'	0.45	6PS027		0.00
E18R	58	8/14/2006	3-RAP006.49	Rapidan River near Rt. 610 bridge	N38 21.578'	W77 41.118'	1.90	6PS030		0.00
E19L	49	5/26/2006	3-MOT000.39	Motts Run Reservoir (Mine Run)	N38 18.730'	W77 32.817'	1.65	6TS018		0.00
E20R	42	5/17/2006	3-CLB000.50	Claiborne Run near Rt. 3 bridge	N38 18.172'	W77 26.823'	0.52	6PS019		2.63
E20R	47	5/17/2006	3-HAL000.57	Hazel Run near Rt. 17 bridge	N38 17.513'	W77 27.423'	2.02	6PS023		0.00
E21R	50	9/18/2006	3-MTC001.94	Mount Creek near Rt. 17	N38 11.921'	W77 16.939'	1.65	6PS025		0.00
E21R	64	5/19/2006	3-RPP080.19	Rappahannock River near Rt. 301 bridge	N38 10.490'	W77 11.311'	1.44	6PS036		0.00
E22R	38	8/28/2006	3-BLK002.54	Black Water Swamp (Pilkington Swamp) near Rt. 622	N38 01.830'	W77 04.472'	4.82	6PS017		0.00
E22R	54	6/20/2006	3-OCC010.47	Occupacia Creek near Rt. 17	N38 02.650'	W77 00.345'	0.95	6PS028		0.00
E22R	55	9/14/2006	3-PEE004.46	Peedee Creek near Rt. 640	N38 07.251'	W76 58.516'	0.51	6PS029		0.00
E22R	63	8/30/2006	3-RPP070.00	Rappahannock River near Devils Elbow near Bouquet	N38 08.546'	W77 04.724'	1.79	6PS035		0.00
E22R	62	8/24/2006	3-RPP056.20	Rappahannock River near Rt. 622 Carters Wharf	N38 04.311'	W76 55.601'	2.86	6PS034		0.00
E23R	69	7/7/2006	3-XDW000.80	Wilna Pond at Nat'l Wildlife Refuge	N38 01.073'	W76 49.473'	0.52	6TS022		0.00
E23L	43	10/5/2006	3-CMR001.00	Chandler's Mill Pond	N38 06.000'	W76 50.500'	3.42	6TS017		5.90
E23R	41	9/12/2006	3-CAT015.44	Cat Point Creek near Rt. 622 bridge	N38 04.897'	W76 50.768'	3.58	6TS016		0.00
E23R	40	6/22/2006	3-CAT011.62	Cat Point Creek near Rt. 637 bridge Gaging Station	N38 02.390'	W76 49.614'	1.82	6PS018		0.00
E23R	51	9/7/2006	3-MTL004.82	Mount Landing Creek near Rt. 716	N37 57.744'	W76 56.190'	5.34	6PS026		0.00

DEQ 2006 Sediment PCBs results

(73 samples - gray colored fonts indicate that sample was not analyzed for pcbs)

preliminary

WBID	DEQ site #	Sampling Date	DEQ rivermile	Stream name/location/description	Latitude	Longitude	% TOC ²	Analyte ³ Sample	ppb ¹ (dry weight basis)	
									Total PCB ³	
				NOAA's Effects Range-Median		ER-M	>>>>			180
				NOAA's Effects Range-Low		ER-L	>>>>			22.7
				Freshwater Consensus-Based Probable Effect Concentration		PEC				676
E23R	48	9/6/2006	3-HOK003.61	Hoskins Creek near Rt. 659 bridge	N37 54.500'	W76 52.995'	2.23	6PS024		0.00
E23R	57	6/16/2006	3-PIS009.24	Piscataway Creek near Rt 691	N38 28.556'	W77 59.103'	1.09	6TS021		0.00
E23R	56	6/13/2006	3-PIS004.79	Piscataway Creek near Rt. 17	N37 52.285'	W76 50.773'	3.60	6TS020		0.00
E23R	61	8/17/2006	3-RPP042.12	Rappahannock River near Jones Point	N37 55.206	W76 49.295	2.65	6PS033		0.00
E24R	39	9/20/2006	3-BRA000.05	Branham Mill Swamp upstream Rt. 360	N37 57.333'	W76 43.333'	1.35	6TS015		0.00
E24R	67	7/25/2006	3-TOT005.11	Totuskey Creek near Rt. 3 bridge	N37 55.425	W76 43.227	0.54	6PS038		0.00
E25R	60	8/22/2006	3-RPP029.42	Rappahannock River near Tarpley Point	N37 46.570	W76 41.203	0.17	6PS032		0.00
E25R	68	7/24/2006	3-URB000.00	Urbanna Creek near Urbanna	N37 38.459	W76 34.064	2.25	6PS039		0.00
E26E	44	7/26/2006	3-CRR001.38	Corrotoman River near Millenbeck	N37 39.934	W76 28.748	2.14	6PS020		0.00
E26E	45	7/27/2006	3-CTR000.19	Carter Creek near Weems	N37 39.155	W76 26.422	1.55	6PS021		0.00
E26E	59	8/23/2006	3-RPP008.42	Rappahannock River near Rt. 3 bridge	N37 37.375	W76 25.466	2.28	6PS031		0.00

YORK RIVER BASIN

F07R	74	5/23/2006	8-TRY004.98	Terry's Run arm of Lake Anna near Rt. 629	N38 11.207'	W77 55.628'	1.56	6PS044		0.00
F07L	73	8/31/2006	8-TRY001.33	Terry's Run arm of Lake Anna near Rt. 719	N38 08.917'	W77 49.629'	2.03	6PS043		27.97
F07L	72	4/26/2006	8-PMC002.13	Pamunkey Creek - Lake Anna Near State Park	N38 07.627'	W77 51.079'	2.11	6PS042		239.08
F06L	71	8/18/2006	8-NAR056.48	North Anna River near Rt. 522 - Lake Anna	N38 06.592	W77 54.830'	0.99	6PS041		0.00
F07L	70	4/25/2006	8-NAR044.68	Lake Anna Near Nuclear Power Station	N38 03.760'	W77 46.908'	2.16	6PS040		0.00
F06L	108	10/31/2006	8-SDC000.40	Lake Anna WHTF - Sedges Creek - Dike 1	N38 03.043'	W77 46.830'	1.01	6PS045		0.00
F07L	109	11/1/2006	8-ELK003.38	Lake Anna WHTF - Elk Creek - Dike 2	N38 02.030'	W77 46.350'	0.29	6PS046		0.00
F07L	110	11/1/2006	8-RCK000.95	Lake Anna WHTF - Rock Creek - Dike 3	N37 59.800'	W77 45.200'				

SMALL COASTAL RIVER BASIN

D01E	107	8/1/2006	7-LTM000.80	Little Mosquito Creek	N37 56.965'	W75 27.245'	2.61	6TS024		0.00
D06E	75	7/31/2006	7-RAC000.00	Raccoon Creek	N37 07.648'	W75 57.120'	1.89	6TS023		0.00

NOTTOWAY RIVER BASIN

K19R	100	7/11/2006	5ANTW091.70	Nottoway River near Rt. 619	N36 50.920'	W77 33.830'	1.79	6TS026		0.00
K19R	99	6/15/2006	5ANTW077.95	Nottoway River near I-95	N36 49.948'	W77 24.000'				
K19R	98	7/13/2006	5ANTW075.48	Nottoway River near Rt. 40 Stony Creek	N36 56.507'	W77 22.847'				
K23R	97	7/12/2006	5ANTW066.34	Nottoway River near Rt. 637	N36 59.782'	W77 19.467'				
K24R	96	7/10/2006	5ANTW045.45	Nottoway River near Rt. 631 Peters bridge	N36 51.492'	W77 11.365'				
K28R	95	6/19/2006	5ANTW035.44	Nottoway River near Rt. 649 Careys bridge	N36 46.089'	W77 09.924'				
K29R	101	7/11/2006	5AASM013.36	Assamoosick Swamp near Rt. 622	N36 54.432'	W77 07.576'				
K28R	102	6/23/2006	5ANTW020.99	Nottoway River near Rt. 742/674	N36 40.258'	W77 02.581'	5.38	6TS025		0.00
K28R	94	7/10/2006	5ANTW015.99	Nottoway River near Rt. 671	N36 39.162'	W77 00.198'				
K30R	93	6/1/2006	5ANTW003.30	Nottoway River near Rt. 258	N36 34.018'	W76 56.774'				

BLACKWATER RIVER BASIN

K31R	81	6/28/2006	5ABKR014.04	Blackwater Swamp at Rt. 106	N37 13.103'	W77 18.648'	0.83	6TS027		0.00
K31R	90	6/28/2006	5ASEC005.39	Second Swamp near Rt. 630 bridge	N37 09.959'	W77 16.445'				
K31R	92	5/31/2006	5AWKS013.49	Warwick Swamp near Rt. 156 bridge	N37 06.596'	W77 19.419'				
K31R	80	6/27/2006	5ABKR002.33	Blackwater Swamp at Rt. 601	N37 07.353'	W77 11.147'				
K32R	83	6/27/2006	5ACPP007.86	Cypress Swamp near Rt. 630	N37 06.570'	W76 54.644'				
K32R	84	5/30/2006	5AJCH000.73	Johnchecohunk Swamp near Rt. 630	N37 04.701'	W76 55.486'				
K32R	82	6/27/2006	5ACPP004.04	Cypress Swamp near Rt. 31	N37 03.310'	W76 55.212'				
K34R	88	6/26/2006	5AMSW010.89	Mill Swamp near Rt. 626 bridge	N37 04.546'	W76 48.638'				
K34R	87	6/29/2006	5AMSW006.77	Mill Swamp near Rt. 617 bridge	N37 01.817'	W76 49.710'				
K34R	86	6/29/2006	5AMSW001.89	Mill Swamp near Rt. 621 bridge	N36 59.437'	W76 48.541'				
K33R	77	6/1/2006	5ABLW031.90	Blackwater River near Rt. 603	N36 48.224'	W76 51.754'				
K36R	78	6/1/2006	5ABLW000.65	Blackwater River near state line	N36 33.150'	W76 54.949'				

NOTES:

#####

blue font indicates analyte concentration greater than or equal to ER-M

1

ppb parts per billion (ug/kg or ng/g) dry weight basis

DEQ 2006 Sediment PCBs results

(73 samples - gray colored fonts indicate that sample was not analyzed for pcbs)
preliminary

WBID	DEQ site #	Sampling Date	DEQ rivermile	Stream name/location/description	Latitude	Longitude	% TOC ²	Analyte ³ Sample	ppb ¹ (dry weight basis)	
									Total PCB ³	Total
									NOAA's Effects Range-Median	180
									NOAA's Effects Range-Low	22.7
									Freshwater Consensus-Based Probable Effect Concentration	676
							ER-M	>>>>>		
							ER-L	>>>>>		
							PEC			

² TOC Total Organic Carbon
³ PCB Total PCB denotes sum of polychlorinated biphenyl congeners