

Pennsylvania DEP's

Five-Year Plan for TMDL Development

Developed by the Bureau of Water Supply and Wastewater Management
Updated July 29, 2002

- The number of TMDLs that are expected to be completed within the specified time frames shown in the table have been updated based on our most current projections.

Introduction

During the past several years, the Department of Environmental Protection has focused on watershed management techniques and processes that take a comprehensive approach to water pollution control to address polluted runoff or nonpoint source pollution as well as point sources of pollution.

Using the watershed approach requires selection or definition of watershed size and begins with a comprehensive assessment of water quality problems in the watershed. After water quality problems are identified, a planning process occurs to develop strategies that can successfully address and correct water pollution problems in the watershed. Pennsylvania is using this process together with federal Clean Water Act requirements for establishing total maximum pollutant loadings or TMDLs to clean up polluted streams so that they meet water quality standards. Water quality standards are the combination of water uses, such as water supply, recreation, and aquatic life, to be protected and the water quality criteria necessary to protect them.

TMDLs can be considered to be a watershed budget for pollutants, representing the total amount of pollutants that can be assimilated by a stream without causing impairment or water standards to be exceeded. The pollutant allocations resulting from the TMDL process constitute the amount of pollutants that can be discharged into a waterway from each category. The TMDL does not specify how discharges must attain particular load reduction.

In an April 7, 1997 MOU with EPA the Department agreed to a 12year schedule to develop TMDLs for impaired streams listed on the 1996 CWA Section 303(d) list. Over the past two years the Office of Water Management has met those TMDL goals. Concurrently, Central Office staff of Water Management is developing methodologies, processes, and computer models to establish TMDLs on a broader scale by a wide range of staff. In addition, several contracted TMDL initiatives have been undertaken in various parts of the Commonwealth.

In conjunction with managing water resources through a watershed-based approach, the Department's TMDL development is being carried out by the Regional and District Mining Offices with oversight and coordination from Central Office. The following report presents a plan to detail this objective. It identifies specific impaired waterbody segments from the 1996 Section 303(d) list where TMDLs must be established. This plan is a multi-year commitment of Department resources. Although the general elements of the plan will remain valid over time, it will by necessity be a fluid document, ever changing in response to new information, better tools and emerging priorities.

TMDL Projection Report

Table 1 outlines DEP's total maximum daily load (TMDL) commitments contained in the consent decree between the Plaintiffs and EPA. The number of segments that must be completed in each year are identified along with the number of TMDLs completed. Subsequent tables display a specific schedule of milestones for TMDL completion, and specific segments that, if addressed, will meet our submittal requirements through the year 2007. The final table denotes TMDLs that have been completed to date.

Each section contains a narrative and a table that provides a possible solution for meeting submittal requirements.

It should be noted that the 1996 303(d) list may change as new stream surveys are completed. It is possible that some of the historic listings (prior to 1997, the start of the unassessed waters program) will no longer be valid, or the source and cause of the impairment may be updated by new data.

Table 1 TMDL Consent Decree Requirements (1996 303(d) List)

Table 1. TMDL Submittal Requirements by Year									
Year		Non-AMD	Cumulative Requirement	Annual Requirement	Submitted	AMD	Cumulative Requirement	Annual Requirement	Submitted
1	1998	5%	8	8	8	0%	0	0	0
2	1999	10%	16	8	8	(7)	7	7	10
4	2001	40%	61	45	46	10%	43	33	38
6	2003	60%	91	30		20%	85	42	
8	2005	80%	121	30		40%	170	85	
10	2007	100%	151	30		60%	255	85	
12	2009					100%	424	169	

Table 2 Illustrates the TMDL commitment by region for years 2002/2003. This table does not include any of the AMD segments that will be done in those regions.

Table 2. TMDLs By Region for 2002/2003 Reporting Period (No AMD Included)		
Region / Contractor	Number of TMDLs	
	1996 List	Total
Northeast	3	4
Southeast	5	8
Southcentral	6	6
Northcentral	1	16
Southwest	0	0
Northwest	1	4
*SRBC	2	2
*DRBC	0	0
*PSU	8	8
*Tetra Tech	6	93
	32	141

* - Contracted to develop TMDLs for DEP, on a schedule similar to the DEP regions.

Table 3 Illustrates the TMDL commitment by region for years 2002/2003. This table does not include any of the non-AMD segments that will be done in those regions.

Table 3. TMDLs By Mining Office for 2002/2003 Reporting Period (AMD Only)		
Office / Contractor	Number of TMDLs	
	1996 List	Total
Pottsville	8	8
Hawk Run	11	11
Cambria	10	10
Knox	14	14
Greensburg	11	11
*SRBC	18	18
*PSU	5	5
*TetraTech	8	8
	85	85

* - Contracted to develop TMDLs for DEP, on a schedule similar to the DEP Mining Offices.

Table 4 depicts TMDL development proposed for NON-AMD impaired waters that would be completed prior to the year 2003, the next milestone-reporting period identified in Table 1.

Table 4. Currently Proposed TMDLs (Category of Other than AMD)					
				Number of TMDLs	
Region/ Contractor	Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
NCRO	California Brook	Agriculture	4-A	0	2
NCRO	Limestone Run	Agriculture	10-D	0	1
NCRO	Mud Creek	Agriculture	10-D	0	1
NCRO	Genesee River	Agriculture	14	0	4
NCRO	Ludington Run	Agriculture	14	0	2
NCRO	Musto Hollow	Agriculture	14	0	1
NCRO	West Branch Genesee River	Agriculture	14	0	1
NCRO	Hemlock Creek	Agriculture	5-C	0	1
NCRO	Buffalo Creek	Agriculture/Atmospheric Deposition	10-C	1	3
NERO	Waltz Creek	Other Non-Point Sources	1-F	1	2
NERO	Harveys Lake	Onsite Wastewater Systems	5-B	1	1
NERO	Lake Jean	Atmospheric Deposition	5-C	1	1
NWRO	CoolSpring Creek	Agriculture	20-A	0	1
NWRO	Neshannock Creek (Unt)	Agriculture	20-A	0	1
NWRO	Otter Creek	Agriculture	20-A	0	1
NWRO	Gravel Run	Agriculture	16-A	0	0
NWRO	South Branch French Creek	Agriculture	16-D	1	1
PSU	Neshaminy Creek	Municipal Point Sources	2-F	1	1
PSU	Unt Neshaminy Creek	Agriculture	2-F	1	0
PSU	Little Neshaminy Creek	Municipal Point Sources	2-F	1	1

**Table 4 Continued. Currently Proposed TMDLs
(Category of Other than AMD)**

				Number of TMDLs	
Region/ Contractor	Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
PSU	UNT Neshaminy Creek	Municipal Point Sources	2-F	1	1
PSU	Park Creek	Municipal Point Sources	2-F	1	1
PSU	Cooks Run	Municipal Point Sources	2-F	1	1
PSU	West Branch Neshaminy Branch	Municipal Point Sources	2-F	1	1
PSU	UNT West Branch Neshaminy Branch	Municipal Point Sources	2-F	1	1
PSU	Lake Galena	Agriculture	2-F	0	1
SCRO	Unt Tulpehocken Creek	Agriculture	3-C	1	1
SCRO	Little Cacoosing Creek	Agriculture	3-C	1	1
SCRO	Hospital Creek	Agriculture	3-C	1	1
SCRO	Owl Creek	Agriculture	3-C	1	1
SCRO	Pinchot Lake	not yet done	7-F	1	1
SCRO	South Branch Codorus	Agriculture	7-H	1	1
SERO	Lake Nockamixon	Agriculture	2-D	0	1
SERO	Unt Schuylkill River	Agriculture	3-D	1	1
SERO	Green Lane Reservoir	not yet done	3-E	1	1
SERO	Glanraffan Creek	Other Non-Point Sources	3-F	1	1
SERO	Unt Sandy Run	Industrial/Municipal/Other Point Sources	3-F	1	1
SERO	Sandy Run	Municipal Point Sources	3-F	1	3
SRBC	Swatara Creek UNT	Agriculture	7-D	1	1
SRBC	Oil Creek	Urban Runoff/Storm Sewers	7-H	1	1
T-Tech	Brush Run	Urban Runoff/Storm Sewers	20-F	1	13
T-Tech	Brush Run (Unt)	Urban Runoff/Storm Sewers	20-F	1	1
T-Tech	Canonsburg Lake	Agricultural	20-F	1	1
T-Tech	Plum Run	Agriculture	20-F	1	3
T-Tech	Sawmill Run	Point Sources	20-F	1	1
T-Tech	Chartiers Creek Watershed	Multiple source/cause	20-F	1	74??
Total				32	149

Table 5 shows the NON-AMD segments proposed for delisting in this for the 2003 reporting period. These streams have been determined to be unimpaired, and thus can be removed from the 303(d) list. Each delisting will be supported by data supplied to the EPA for approval.

Table 5. Currently Proposed Delistings (Category of Other than AMD)				Number of TMDLs	
Region/ Contractor	Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
NCRO	Spring Creek and Slab Cabin Run	Industrial Point Sources	9-C	0	
NERO	Brodhead Creek	Other Non-Point Sources	1-E	0	
NWRO	French Creek	Municipal Point Sources	16-A	0	
NWRO	Oil Creek	Industrial Point Sources	16-E	0	1
NWRO	Coon Run	Industrial Point Sources	16-E	0	1
SCRO	Laurel Run	Agriculture	3-C	0	1
SCRO	Letort Spring Run	Other Non-Point Sources	7-B	0	1
SCRO	Unt Mill Creek	Other Non-Point Sources	3-C	0	
SERO	Unt French Creek	Urban Runoff/Storm Sewers	3-D	1	1
SERO	Manatawny Creek	Agriculture	3-D	1	1
SERO	Little Valley Creek	Undetermined	3-F	1	1
SERO	Unnamed Trib. Chester Creek	Municipal Point Sources	3-G	1	1
SERO	Unnamed Trib W.Br. Chester Creek	Municipal Point Sources	3-G	1	1
SERO	E.Br.Chester Creek	Municipal Point Sources	3-G	1	1
SERO	Un. Trib. Brandywine Creek	Other Point Sources	3-H	1	1
SERO	East Branch Brandywine Creek	Agriculture	3-H	1	1
SERO	Culbertson Run	Other Point Sources	3-H	1	1
SERO	Indian Run	Agriculture	3-H	1	1
SERO	East and West Branches Red Clay Crk	Agricultural	0	1	1
SERO	Unt Green Creek	Other Point Sources	3-I	1	1
SWRO	Kibler Run	Other Non-Point Sources	8-C	1	1
SWRO	Unt Huling Run	Agriculture	17-C	1	1
SWRO	Clarke Run	Agriculture	18-D	1	1
SWRO	Unt Quemahoning Crk	Agriculture	18-E	1	1
SWRO	Wells Creek	Agriculture	18-E	1	1
SWRO	Buck Run	Agriculture	18-E	1	1
SWRO	Glades Creek	Agriculture	18-E	1	1
			Total	14	18

Table 6 shows the segments proposed for AMD TMDL development for the 2003 reporting period. These streams were selected by the District Mining Offices and BAMR Field Offices after evaluation of the 1998 303(d) list. The proposed list may be further refined by the Mineral Resources Deputate. The Division of Water Quality Assessment and Standards will provide modeling support. The Division will act as a facilitator and an intermediary with EPA for all TMDL-related activities and will package and submit TMDLs to EPA.

Table 6. Currently Proposed TMDLs (Category of AMD)

				Number of TMDLs	
Office/Contractor	Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
Hawk Run	Surveyor Run	AMD	8-C	1	1
Hawk Run	Little Surveyor Run	AMD	8-C	1	1
Hawk Run	Birch Island Run	AMD	8-D	1	1
Hawk Run	Little Birch Island Run	AMD	8-D	1	1
Hawk Run	Otter Run	AMD	9-A	1	1
Hawk Run	Right Fork Otter Run	AMD	9-A	1	1
Hawk Run	Babb Creek	AMD	9-A	2	2
Hawk Run	Wison Creek	AMD	9-A	1	1
Hawk Run	Middle Branch Big Run	AMD	9-C	2	2
PSU	Beech Creek (Basin)	AMD	9-C	1	1
PSU	Logway Run	AMD	9-C	1	1
PSU	North Fork Beech Creek	AMD	9-C	1	1
PSU	Huskins Run	AMD	17-E	1	1
PSU	Newmyer Run	AMD	19-E	1	1
SRBC	Tioga River	AMD	4-A	1	1
SRBC	Catawissa Creek	AMD	5-E	1	1
SRBC	Tomhickon Creek	AMD	5-E	1	1
SRBC	Sugarloaf Creek	AMD	5-E	1	1
SRBC	Mahanoy Creek	AMD	6-B	1	1
SRBC	Zerbe Run	AMD	6-B	1	1
SRBC	Crab Run	AMD	6-B	1	1
SRBC	Shenandoah Creek	AMD	6-B	1	1
SRBC	Anderson Creek	AMD	8-B	1	1
SRBC	Kratzer Run	AMD	8-B	1	1
SRBC	Irvin Branch	AMD	8-B	1	1
SRBC	Little Anderson Creek	AMD	8-B	1	1
SRBC	Rock Run	AMD	8-B	1	1
SRBC	Cooks Run (Basin)	AMD	9-B	1	1
SRBC	Cooks Run	AMD	9-B	1	1
SRBC	Crowley Hollow	AMD	9-B	1	1
SRBC	Camp Run	AMD	9-B	1	1
SRBC	Rock Run	AMD	9-B	1	1
Cambria	Bear Loop Run	AMD	11-A	1	1
Cambria	Beaver Dam Branch	AMD	11-A	1	1
Cambria	Sugar Run	AMD	11-A	1	1
Cambria	Burgoon Run	AMD	11-A	1	1
Cambria	Glenwhite Run	AMD	11-A	1	1
Cambria	Six Mile Run	AMD	11-D	1	1
Cambria	Sandy Run	AMD	11-D	1	1
Cambria	Longs Run	AMD	11-D	1	1
Cambria	Oven Run	AMD	18-E	1	1
Cambria	Lamberts Run	AMD	18-E	1	1
Greensburg	Limestone Run	AMD	17-E	1	1
Greensburg	Thompson Run	AMD	19-A	1	1
Greensburg	Laurel Run	AMD	19-F	1	1
Greensburg	Cats Run	AMD	19-G	1	1
Greensburg	Harmon Creek	AMD	20-D	1	1
Greensburg	Raccoon Creek	AMD	20-D	1	1
Greensburg	Potato Garden Run	AMD	20-D	1	1

Greensburg	Unt Potato Garden Run	AMD	20-D	1	1
Table 6 Continued. Currently Proposed TMDLs (Category of AMD)					
Office/Contractor	Waterbody Name	Pollutant source	SWP Basin	Number of TMDLs	
				1996 List	Total
Greensburg	Burgetts Fork(Raccoon Creek)	AMD	20-D	1	1
Greensburg	Montour Run	AMD	20-G	1	1
Greensburg	Moon Run	AMD	20-G	1	1
Knox	Curry Run	AMD	17-A	1	1
Knox	Elk Creek (North Branch)	AMD	17-A	1	1
Knox	Elk Creek	AMD	17-A	1	1
Knox	Daguscahonda Run	AMD	17-A	1	1
Knox	Douglas Run	AMD	17-B	1	1
Knox	Jones Run	AMD	17-B	1	1
Knox	McGourvey Run	AMD	17-B	1	1
Knox	Little Mill Creek	AMD	17-B	1	1
Knox	Clutch Run	AMD	17-C	1	1
Knox	Hadden Run	AMD	17-C	1	1
Knox	Fowler Run	AMD	17-C	1	1
Knox	Beaver Run	AMD	17-C	1	1
Knox	Seaton Creek	AMD	20-C	1	1
Knox	Blacks Creek	AMD	20-C	1	1
Pottsville	Schuylkill River	AMD	3-A	1	1
Pottsville	Little Schuylkill River	AMD	3-A	1	1
Pottsville	Wabash Creek	AMD	3-A	1	1
Pottsville	Panther Creek	AMD	3-A	1	1
Pottsville	West Branch Schuylkill River	AMD	3-A	1	1
Pottsville	Panther Creek	AMD	3-A	1	1
Pottsville	Muddy Branch Creek	AMD	3-A	1	1
Pottsville	Mill Creek	AMD	3-A	1	1
T-Tech	Chartiers Creek	AMD	20-F	1	1
T-Tech	Campbells Run	AMD	20-F	1	1
T-Tech	Unt Campbells Run	AMD	20-F	1	1
T-Tech	Millers Run	AMD	20-F	1	1
T-Tech	Sawmill Run	AMD	20-F	1	1
T-Tech	North Branch Robinson Run	AMD	20-F	1	1
T-Tech	N. Br. Robinsons Run (Unt)	AMD	20-F	1	1
T-Tech	Half Crown Run	AMD	20-F	1	1
Total				84	84

Table 7 shows the AMD segments proposed for delisting in the 2003 reporting period. These streams have been determined to be unimpaired, and thus can be removed from the 303(d) list. Each delisting will be supported by data and supplied to the EPA for approval.

Table 7. Currently Proposed Delistings (Category of AMD)				Number of TMDLs	
Office/Contractor	Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
Greensburg	Indian Creek	Suspended Solids	19-E	1	1
Greensburg	Rasler Run	Other Inorganics	19-E	1	1
Greensburg	Buck Run	Metals	19-E	1	1
Hawk Run	Sinnemahoning Creek	Metals	8-A	1	1
Hawk Run	Spring Run	Metals	8-A	1	1
Hawk Run	West Creek	Metals	8-A	1	1
Hawk Run	Trout Run	pH	8-C	1	1
Hawk Run	Taylor Springs Run	Metals	8-C	1	1
Hawk Run	Pine Run	pH	8-C	1	1
Hawk Run	Pine Creek	Metals	9-A	1	1
Hawk Run	Left Fork Otter Run	Metals	9-A	1	1
Hawk Run	East Branch Big Run	pH	9-C	1	1
Hawk Run	Red Run	Metals	10-A	1	1
Knox	Loyalhanna Creek	Suspended Solids	18-C	1	1
Knox	Kyle Run (Unt)	AMD	17-C	1	1
Knox	Kyle Run	AMD	17-C	1	1
Pottsville	Saucon Creek	Suspended Solids	2-C	1	1
Pottsville	Saucon Creek (South Branch)	Other	2-C	1	1
Pottsville	Baird Run	Metals	7-D	1	1
Pottsville	West Branch Fishing Creek	Metals	7-D	1	1
SRBC	Shale Run	Metals	6-C	1	1
SRBC	Stone Cabin Run	Metals	6-C	1	1
SRBC	Nine O'Clock Run	Metals	6-C	1	1
SRBC	Montgomery Creek	Metals	8-B	1	1
SRBC	Montgomery Creek (Unt)	Metals	8-B	1	1
SRBC	North Branch Montgomery Creek (Unt)	pH	8-B	1	1
SRBC	Tinker Run (Unt)	pH	8-B	1	1
SRBC	Wilson Run	Metals	8-B	1	1
SRBC	Wilson Run (Unt)	pH	8-B	1	1
SRBC	Wilson Run (Unt)	Metals	8-B	1	1
Total				30	30

Table 8 displays a future projection that would meet the TMDL submission requirements through the year 2007 for non-AMD segments. During this time frame the regional offices can begin working on additional segment that require TMDL development. Regional offices will identify watersheds where they will be working, along with timelines for that work.

Table 8. Proposed TMDLs for 2004-2007				
Number of TMDLs				
Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
Focus Areas				
Tulpehocken	NON-AMD	03-C	6	?
Swatara Basin	NON-AMD	07-D	6	?
Frankstown Branch (Little Juniata)	NON-AMD	11-A	5	?
Two-Lick	NON-AMD	18-D	4	?
Stony Creek	NON-AMD	18-E	4	?
Shenango Basin	NON-AMD	20-A	1	18
Redbank Creek Basin	NON-AMD	17-C	2	29
Upper French Creek Basin	NON-AMD	16A	2	1
Conodoguinet Creek Basin	NON-AMD	7-B	1	?
Little Juniata River Basin	NON-AMD	11-A	5	?
Totals			36	?

Table 9 displays a future projection that would surpass the TMDL submission requirements through the year 2007 for AMD segments. The focus areas shown are large watersheds and not all TMDLs listed are likely to be completed by 2007.

Table 9. Proposed TMDLs for 2004-2007				
Number of TMDLs				
Waterbody Name	Pollutant source	SWP Basin	1996 List	Total
Focus Areas				
Upper West Branch of Susquehanna Basin	AMD	8	60	?
Allegheny Basin	AMD	18	61	?
Pine Creek Basin	AMD	09-A	3	?
Kettle Creek Basin	AMD	09-B	9	?
Bald Eagle Creek Basin	AMD	09-C	6	?
Lehigh River Basin	AMD	02-A	2	?
Lackawanna River Basin	AMD	05-A	6	?
Toby Creek Basin	AMD	05-B	3	?
Frankstown Branch – Little Juniata Basin	AMD	11-A	5	?
Lower Clarion River Basin	AMD	17-B	16	?
Middle Monongahela River Basin	AMD	19-C	10	?
Casselman River Basin	AMD	19-F	14	?
Totals			181	?

Table 10 lists the TMDLs that have been completed, and which EPA has approved.

Table 10. Approved TMDLS				
Stream Name	SWP	Number of TMDLs		Year Approved
		1996 List	Total	
Acid Mine Drainage				
Swatara Creek	07-D	1	1	1999
Stumps Run	07-D	1	1	1999
Good Spring Creek	07-D	0	1	1999
Poplar Creek	07-D	1	1	1999
Middle Creek	07-D	1	1	1999
Gebhard Run	07-D	1	1	1999
Lower Rausch Creek	07-D	1	1	1999
Good Spring Creek	07-D	1	1	1999
Lorberry Creek	07-D	1	1	1999
Panther Creek	07-D	1	1	1999
Coal Run	07-D	1	1	1999
Acid Mine Drainage				

Cold Stream	08-D	1	1	2001
M. Br. Two-mile Rn.	09-B	1	1	2001
Two Mile Rn.	09-B	1	1	2001
Drury Rn.	09-B	1	1	2001
Sandy Rn.	09-B	1	1	2001
Stoney Rn.	09-B	1	1	2001
Woodley Draft	09-B	1	1	2001
Tangascootack Ck.	09-B	1	1	2001
Kittanning Rn.	11-A	1	1	2001
Hartman Rn.	11-D	1	1	2001
Miller Rn.	11-D	1	1	2001
Shoup Rn.	11-D	1	1	2001
Lockard Rn.	16-G	1	1	2001
Whites Run	17-B	1	1	2001
Parks Rn.	17-B	1	1	2001
Thorn Run	18-B	1	1	2001
Unt to Thorn Run	18-B	1	1	2001
Carbon Rn.	06-B	1	1	2001
Coal Rn.	06-B	1	1	2001
N. Br. Shamokin Ck.	06-B	1	1	2001
Quaker Rn.	06-B	1	1	2001
Shamokin Ck.	06-B	1	1	2001
Locust Creek	06-B	1	1	2001
E. Br. Rausch Ck.	06-C	1	1	2001
Rausch Ck.	06-C	1	1	2001
W. Br. Rausch Ck.	06-C	1	1	2001
Morris Run	04-A	1	1	2001
Fall Brook	04-A	1	1	2001
Hans Yost	06-C	1	1	2001
Little Muddy Cr.	08-C	1	1	2001

Table 10 Continued. Approved TMDLS

Stream Name	SWP	Number of TMDLS		Year Approved
		1996 List	Total	
Bear Creek	06-C	1	1	2001
Lake				
Lake Luxembourg	02-F			1999
Stephen Foster Lake	04-C	1	1	2001
Lake Carey	04-F	1	1	2001
Conneaut Lake	16-D	1	1	2001
Virgin Run Lake	19-D	1	1	2001
Point Source				
Mill Creek	07-J	1	1	1998
Bald Eagle Creek	11-A	1	1	1998
Trout Creek	03-F	1	1	1998

Table 10 Continued. Approved TMDLS

Stream Name	SWP	Number of TMDLs		Year Approved
		1996 List	Total	
Point Source				
Pennypack Creek	03-J	1	1	1998
Conewago Creek	07-G	1	1	1998
Brush Creek	20-C	1	1	1998
Non-point Source (nutrients and sediment)				
Donegal Creek	07-G	2	2	2000
South Branch Wyalusing Creek	04-D	1	1	2001
Quitapahilla Basin	07-D	4	9	2001
Earlakill Run	07-D	1	2	2001
Deep Run	07-D	1	2	2001
North Branch Mahantango Creek	06-C	1	1	2001
North Fork Cowanesque	04-A	1	1	2001
Pequea Creek	07-K	2	10	2001
Conowingo	07-K	1	5	2001
Conodoguinet Basin	07-B	5	20	2001
Conewego	07-G	1	5	2001
Chickees Creek	07-G	1	3	2001
Muddy	07-J	1	1	2001
PCB/Chlordane				
Susquehanna River	05-D, 05-B, 04-G, 05-E	1	1	1999
Brandywine Creek	03-H	1	1	1999
Allegheny River	18-A	1	1	1999
Monongahela River	19-G	1	1	1999
Cheat River	19-G	1	1	1999
Levittown Lake	02-E	1	1	2001
Little Valley Creek & Valley Creek Watersheds	03-F	1	1	2001
West Branch of Brandywine	03-F	1	1	2001
Shenango River	20-A	1	1	2001
Ohio River	20-B, 20-D	1	1	2001
Monongahela	19-C	2	2	2001
Beaver River	20-B	1	1	2001
Chartiers/Little Chartiers (PCB/chlor)	20-F	2	2	2001
Delisted Segments				
Tweed Creek	07-K	1	1	1998
UNT Schuylkill River	03-B	1	1	1998
Nine Mile Creek	18-C	1	1	1999
South Branch Naamans Creek	03-G	1	1	1999
Tenmile Creek (Stream Code 4903)	19-B	1	1	2001
Rush Run (Stream Code 40966)	19-B	1	1	2001
Pumpkin Run (Stream Code 40975)	19-B	1	1	2001
Rattling Creek (Stream Code 17015)	6-C	1	1	2001

Table 10 Continued. Approved TMDLS

Stream Name	SWP	Number of TMDLs		Year Approved
		1996 List	Total	
Delisted Segments				
West Branch Rattling Creek (Stream Code 17016)	6-C	1	1	2001
Doc Smith Run (Stream Code 17019)	6-C	1	1	2001
East Branch Rattling Creek (Stream Code 17030)	6-C	1	1	2001
Upper Delaware (Stream Code 2)	1-A	1	1	2001
Tules Run (Stream Code 19792)	10-D	1	1	2001
Trout Run (Stream Code 53478)	16-A	1	1	2001
South Branch Saucon Creek UNT (Stream Code 3364)	2-C	1	1	2001
Northkill Creek (Stream Code 01902)	3-C	1	1	2001
Un-named Tributary to Mill Creek (Stream Code 01958)	3-C	1	1	2001
French Creek (Stream Code 01548)	3-D	1	1	2001
Deer Creek (Stream Code 6761)	7-I	1	1	2001
Falling Branch Deer Creek (Stream Code 6762)	7-I	1	1	2001