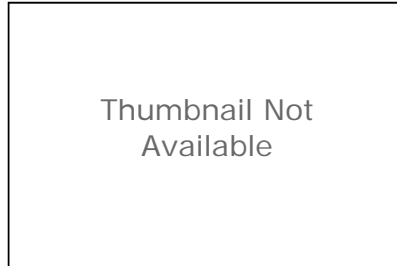


## State of Pennsylvania Water Quality Management program



### Tags

WADEABLE STREAMS, Habitat, Watersheds, Streams, BENTHOS, WATER QUALITY, biota, environment, Biology, Ecology, Ecosystem, Environment, Indicator, Marine, Monitoring, Quality, Surface Water, Water, Benthos, Macro Invertebrates, Water Quality

### Summary

This survey protocol is intended to assess the aquatic life uses of Pennsylvania's wadeable waters and will be applied to those riffle/run dominated stream segments previously assessed by the Statewide Surface Water Assessment Program's (SSWAP) Biological Screening Protocol. Assessments of low gradient, limestone, and non-wadeable streams will be based on protocols developed for those stream types. This Instream Comprehensive Evaluation Survey protocol will target streams with the following assessment needs - those streams identified as: 1) Attaining aquatic life uses but may be "at risk" of impairment; 2) Impaired but needing more intensive follow-up assessment because the source or cause of impairment could not be clearly determined by the SSWAP Biological Screening Protocol, other assessment methods, or during future assessment cycles; 3) Needing more detailed field information for TMDL support; 4) Candidates for impairment delisting from the PA CWA Section 303(d) list; or 5) Unimpaired waters in need of confirmation.

### Description

Pennsylvania has approximately 86,000 miles of streams and rivers. In 1997 the Department of Environmental Protection (DEP) first implemented Pennsylvania's State-wide Surface Waters Assessment Program (SSWAP) and completed assessment of all wadeable sections of Pennsylvania's streams and rivers in 2006. The program was designed to conduct stream assessments in a quick and effective manner, document Point Source and NPS impairments statewide, and identify the sources and causes of impairments. The assessment protocol included both biological and habitat evaluations to determine attainment of aquatic life uses, and the combined biological and habitat evaluation indicate whether the stream is impaired based on aquatic life and/or physical habitat conditions. Each assessment resulted in a summary that identified stream segments with no obvious impairment and those with obvious water quality impairments. Data was then entered in a database and Geographic Information System (GIS) stream coverage format. Statewide assessment results were then compiled to generate semi-annual Integrated Water Quality Monitoring and Assessment Reports and interim yearly updates. Pennsylvania has approximately 86,000 miles of streams and rivers. In 1997 the Department of Environmental Protection (DEP) first implemented Pennsylvania's State-wide Surface Waters Assessment Program (SSWAP) and completed assessment of all wadeable sections of Pennsylvania's streams and rivers in 2006. The program was designed to conduct stream assessments in a quick and effective manner, document Point Source and NPS impairments statewide, and identify the sources and causes of impairments. The assessment protocol included both biological and habitat evaluations to determine attainment of aquatic life uses, and the combined biological and habitat evaluation indicate whether the stream is impaired based on aquatic life and/or physical habitat conditions. Each assessment resulted in a summary that identified stream segments with no obvious impairment and those with obvious water quality impairments. Data was then entered in a database and Geographic Information System (GIS) stream coverage format. Statewide assessment results were then compiled to generate semi-annual Integrated Water Quality Monitoring and Assessment Reports and interim yearly updates.

### Credits

There are no credits for this item.

### Use limitations

Use at your own risk

## ArcGIS Metadata ►

### Citation ►

TITLE State of Pennsylvania Water Quality Management program

[Hide Citation ▲](#)

### Resource Details ►

CREDITS

[Hide Resource Details ▲](#)

### Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

Use at your own risk

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### Metadata Details ►

\* LAST UPDATE 2010-03-31

ARCGIS METADATA PROPERTIES

METADATA FORMAT ESRI-ISO

CREATED IN ARCGIS 2010-03-30T13:19:05

LAST MODIFIED IN ARCGIS 2010-03-31T13:16:01

AUTOMATIC UPDATES

HAVE BEEN PERFORMED No

[Hide Metadata Details ▲](#)

## FGDC Metadata (read-only) ►

### Identification ►

CITATION

CITATION INFORMATION

ORIGINATOR Pennsylvania Department of Environmental Protection

ORIGINATOR Division of Water Quality Assessment and Standards

ORIGINATOR Watershed Assessment Branch

PUBLICATION DATE 2013-04-24

TITLE

State of Pennsylvania Water Quality Management program

PUBLICATION INFORMATION

PUBLICATION PLACE Annapolis, MD

PUBLISHER Chesapeake Bay Program (CBP)  
 ONLINE LINKAGE [http://data.chesapeakebay.net/?DB=CBP\\_NTBEADB](http://data.chesapeakebay.net/?DB=CBP_NTBEADB)  
 ONLINE LINKAGE  
[http://www.chesapeakebay.net/data/downloads/watershed\\_wide\\_benthic\\_invertebrate\\_database](http://www.chesapeakebay.net/data/downloads/watershed_wide_benthic_invertebrate_database)

## DESCRIPTION

## ABSTRACT

Pennsylvania has approximately 86,000 miles of streams and rivers. In 1997 the Department of Environmental Protection (DEP) first implemented Pennsylvania's State-wide Surface Waters Assessment Program (SSWAP) and completed assessment of all wadeable sections of Pennsylvania's streams and rivers in 2006. The program was designed to conduct stream assessments in a quick and effective manner, document Point Source and NPS impairments statewide, and identify the sources and causes of impairments. The assessment protocol included both biological and habitat evaluations to determine attainment of aquatic life uses, and the combined biological and habitat evaluation indicate whether the stream is impaired based on aquatic life and/or physical habitat conditions. Each assessment resulted in a summary that identified stream segments with no obvious impairment and those with obvious water quality impairments. Data was then entered in a database and Geographic Information System (GIS) stream coverage format. Statewide assessment results were then compiled to generate semi-annual Integrated Water Quality Monitoring and Assessment Reports and interim yearly updates.

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## PURPOSE

This survey protocol is intended to assess the aquatic life uses of Pennsylvania's wadeable waters and will be applied to those riffle/run dominated stream segments previously assessed by the Statewide Surface Water Assessment Program's (SSWAP) Biological Screening Protocol. Assessments of low gradient, limestone, and non-wadeable streams will be based on protocols developed for those stream types. This Instream Comprehensive Evaluation Survey protocol will target streams with the following assessment needs - those streams identified as: 1) Attaining aquatic life uses but may be "at risk" of impairment; 2) Impaired but needing more intensive follow-up assessment because the source or cause of impairment could not be clearly determined by the SSWAP Biological Screening Protocol, other assessment methods, or during future assessment cycles; 3) Needing more detailed field information for TMDL support; 4) Candidates for impairment delisting from the PA CWA Section 303(d) list; or 5) Unimpaired waters in need of confirmation.

## TIME PERIOD OF CONTENT

## TIME PERIOD INFORMATION

## SINGLE DATE/TIME

CALENDAR DATE 20000413-Present

## CURRENTNESS REFERENCE

Ground condition

## STATUS

PROGRESS In work

MAINTENANCE AND UPDATE FREQUENCY Annually

SPATIAL DOMAIN

BOUNDING COORDINATES

WEST BOUNDING COORDINATE -78.9381  
EAST BOUNDING COORDINATE -75.4545  
NORTH BOUNDING COORDINATE 41.9852  
SOUTH BOUNDING COORDINATE 39.5532

KEYWORDS

THEME

THEME KEYWORD THESAURUS None  
THEME KEYWORD WADEABLE STREAMS  
THEME KEYWORD Habitat  
THEME KEYWORD Watersheds  
THEME KEYWORD Streams  
THEME KEYWORD BENTHOS  
THEME KEYWORD WATER QUALITY

THEME

THEME KEYWORD THESAURUS ISO 19115 Topic Category  
THEME KEYWORD biota  
THEME KEYWORD environment

THEME

THEME KEYWORD THESAURUS EPA GIS Keyword Thesaurus  
THEME KEYWORD Biology  
THEME KEYWORD Ecology  
THEME KEYWORD Ecosystem  
THEME KEYWORD Environment  
THEME KEYWORD Indicator  
THEME KEYWORD Marine  
THEME KEYWORD Monitoring  
THEME KEYWORD Quality  
THEME KEYWORD Surface Water  
THEME KEYWORD Water

THEME

THEME KEYWORD THESAURUS User  
THEME KEYWORD Benthos  
THEME KEYWORD Macro Invertebrates  
THEME KEYWORD Water Quality

PLACE

PLACE KEYWORD THESAURUS None  
PLACE KEYWORD Pennsylvania

ACCESS CONSTRAINTS

None

USE CONSTRAINTS

Use at your own risk

## POINT OF CONTACT

## CONTACT INFORMATION

## CONTACT PERSON PRIMARY

CONTACT PERSON Gary Walters

CONTACT ORGANIZATION Pennsylvania Department of Environmental Protection, Water Quality Assessments and Standards Division

CONTACT POSITION Chief, Assessment Section

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## CONTACT INSTRUCTIONS

Not Available

## SECURITY INFORMATION

SECURITY CLASSIFICATION SYSTEM FIPS Pub 199

SECURITY CLASSIFICATION No Confidentiality

SECURITY HANDLING DESCRIPTION Standard Technical Controls

*Hide Identification* ▲**Data Quality** ►

## LOGICAL CONSISTENCY REPORT

Not applicable-Data voluntarily reported

## COMPLETENESS REPORT

Unknown

## POSITIONAL ACCURACY

## HORIZONTAL POSITIONAL ACCURACY

## HORIZONTAL POSITIONAL ACCURACY REPORT

Data were collected using methods that are accurate to within 6-25 meters (EPA National Geospatial Data Policy [NGDP] Accuracy Tier 3). For more information, please see EPA's NGDP at <http://epa.gov/geospatial/policies.html>

## LINEAGE

## PROCESS STEP

## PROCESS DESCRIPTION

Metadata imported.

PROCESS DATE 2010-03-30

## PROCESS STEP

## PROCESS DESCRIPTION

Data was loaded into the CBPO Non-Tidal Benthic Data base.

PROCESS DATE 2010-03-30

## PROCESS STEP

## PROCESS DESCRIPTION

2008-2010 Data for Chesapeake Bay Region was extracted from provided and loaded into the CBPO Non-Tidal Benthic Data base.

PROCESS DATE 2011-12-31

*Hide Data Quality ▲*

## Spatial Reference ►

### HORIZONTAL COORDINATE SYSTEM DEFINITION

#### GEOGRAPHIC

LATITUDE RESOLUTION 0.000001  
 LONGITUDE RESOLUTION 0.000001  
 GEOGRAPHIC COORDINATE UNITS Decimal degrees

#### GEODETTIC MODEL

HORIZONTAL DATUM NAME North American Datum of 1983  
 ELLIPSOID NAME Geodetic Reference System 1980  
 SEMI-MAJOR AXIS 6378137.000000  
 DENOMINATOR OF FLATTENING RATIO 298.257222

*Hide Spatial Reference ▲*

## Distribution Information ►

### DISTRIBUTOR

#### CONTACT INFORMATION

##### CONTACT PERSON PRIMARY

CONTACT PERSON Gary Walters

CONTACT ORGANIZATION Pennsylvania Department of Environmental Protection

CONTACT POSITION Chief, Assessment Section

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unavailavle

RESOURCE DESCRIPTION Downloadable Data

### DISTRIBUTION LIABILITY

I, the data requestor, agree to acknowledge the Chesapeake Bay Program and any other agencies and institutions as specified by the Chesapeake Bay Program Office as data providers. I agree to credit the data originators in any publications, reports or presentations generated from this data. I also accept that, although these data have been processed successfully on a computer system at the Chesapeake Bay Program, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty.

This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that careful attention be paid to the contents of the data documentation file associated with these data. The Chesapeake Bay Program shall not be held liable for improper or incorrect use of the data described and/or contained herein.

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## Metadata Reference ►

METADATA DATE 2013-04-24

METADATA FUTURE REVIEW DATE 2017-04-24

METADATA CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION U.S. Environmental Protection Agency, Chesapeake Bay Program

CONTACT PERSON Peter Tango

CONTACT POSITION Monitoring Coordinator

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<http://www.chesapeakebay.net>

METADATA STANDARD NAME NBII Content Standard for National Biological Information Infrastructure Metadata

METADATA STANDARD VERSION FGDC-STD-001-1998

METADATA SECURITY INFORMATION

METADATA SECURITY CLASSIFICATION SYSTEM None

METADATA SECURITY CLASSIFICATION Unclassified

METADATA SECURITY HANDLING DESCRIPTION

None

*Hide Metadata Reference ▲*