

Sponsored by EPA's Watershed Academy

Web-Based Tools for Watershed Assessment and Management

Texas Watershed Planning Short Course

January 13, 2009

Tetra Tech, Inc.

EPA Internet Tools

Information	Internet Tool
Watershed Plan Builder Tool	/owow/watershedplanning
Watershed Handbook	/owow/nps/watershed_handbook
Surf Your Watershed	/surf
Watershed Hub	/owow/watershed
Listserves	/owow/watershed/talk.html
Watershed News	/watershed/news.html
Watershed Academy	/owow/watershed/wacademy
News-Notes	/owow/info/NewsNotes

Unless otherwise noted, each address begins with www.epa.gov

EPA Internet Tools conti.

Information	Internet Tool
Model Ordinances	/nps/ordinance
NPS Outreach Toolbox	/owow/nps/toolbox
Environmental Compliance History Online (ECHO)	www.epa-echo.gov/echo/

Unless otherwise noted, each address begins with www.epa.gov

Watershed Plan Builder

The Watershed Plan Builder Tool and Planning website is open to feedback! EPA is making this draft site website available with the purpose of having it used and tested by a variety of watershed partners. EPA will be making advice from such organizations on developing the final version. Please address your comments, suggestions, and corrections to (301)-973-3434 or via "Watershed Plan Builder" in the subject line or by mail to the address below. Submissions should be received by September 30, 2007.

All life in a watershed - the area that drains to a common waterway, such as a stream, lake, estuary, wetland, or ultimately, the ocean. EPA has long used a watershed approach to help restore and protect the nation's water resources through watershed planning and management.

This site provides information and tools developed by EPA to assist with the development and implementation of effective watershed management plans. It is designed for people who are involved in watershed management activities. These activities include the development and implementation of watershed plans. The analysis of data, and the implementation of management actions. Each page of the website provides specific information to help you perform a task.

- Watershed Plan Builder** - The tool walks you through a series of pages where you can input information about your watershed. The end product is a watershed outline that can be used to develop a watershed management plan.
- Watershed Planning Website** - Here you can find step-by-step instructions for developing a watershed plan. Use this information to fill in the pieces of your watershed watershed plan outline.
- Watershed Handbook** - Learn more about the history of the Watershed Planning website and why it was developed.
- Contact Us/About Us** - From this page to find answers to some of the basic questions you may have about watersheds, the watershed planning process, and how to use this site.
- Publications** - View examples of watershed plans or outlines of watershed plans.
- Information Sources** - From this section to find links to publications, analysis tools and technical documents, and funding sources related to watersheds and watershed planning. This section also includes a list of glossary of terms related to watershed plan building.

Leads users through a series of questions to produce a customized watershed plan outline that is populated with relevant links drawing from EPA water programs, regional and state information, stakeholder contacts, and narrative sections needed to complete a watershed plan.

www.epa.gov/owow/watershedplanning

Step Through Screens

Watershed Planning U.S. Environmental Protection Agency

Watershed Plan Builder

Plan Name Location Plan Outline Activities Issues Concerns Pollution Stakeholders Summary Five Year Page Outline

All fields labeled with a red asterisk (*) are required. Click the following image to see help text and identify where to get this information for each question. Please do not include apostrophes, non-alphabetic, single apostrophe or positive marks when you are filling out the form or this function then values will automatically be removed.

* Do you have an existing project entered into the watershed plan builder?

Yes No

Please create a plan name for your watershed project. This name will identify your project within the plan builder. Both plan name and email address are required and will be used to retrieve your plan information in the future. If you have an existing project when the watershed plan builder, enter the name of the project and e-mail address below and click the "Retrieve your data button" to access the saved information.

Create/Print Out a Watershed Plan Outline

Plan Name

Email

Retrieve your data

Please select a state for your watershed:

Hold down the "Ctrl" key to select multiple items from a list.

Alabama
 Alaska - Limited Data Available
 Arizona
 Arkansas
 California

Click the "View or Print Outline" button below to skip the remaining plan builder steps and proceed directly to the outline. [View or Print Outline](#)

Use the fields below to enter information for the primary contact for this project:

Name (Format: First, Last)
 Organization
 Type of Organization
 Email
 Phone (Format: xxx-xxx-xxxx)

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Example Watershed Plans

The screenshot shows the 'Examples' section of the Watershed Planning website. It lists two examples of watershed plans: the Corlica River Watershed Restoration Action Strategy (Maryland) and the Miller Creek Watershed Improvement Plan. Below the list, there is a section titled 'About PDF Files...' and a link to the 'Corlica River Watershed Restoration Action Strategy (Maryland)'.

Handbook for Developing Watershed Plans to Restore and Protect Our Waters

The image shows the cover of the 'Handbook for Developing Watershed Plans to Restore and Protect Our Waters'. The cover features a stylized illustration of people working together to improve a watershed, with various icons representing different aspects of water quality and management.

www.epa.gov/owow/nps/watershed-handbook

Online Mirror to the Handbook

The screenshot shows the 'Watershed Planning Process' section of the EPA website. It provides an overview of the planning process, including steps like 'Set Goals and Identify Solutions', 'Develop Management Measures to Achieve Goals', and 'Implement and Monitor the Plan'. The text explains that the website is designed to walk users through each step of the process.

Example Module with Inset Links

The screenshot shows a specific module titled 'Set Goals and Identify Solutions - Develop Management Measures to Achieve Goals'. It includes a list of key questions to address in the evaluation of candidate management measures and practices, such as 'Are the site features suitable for incorporating the practice?' and 'How effective is the practice at achieving management goals and loading targets?'. There is also an inset box titled 'Need info on Silt Goals and Erosion Solutions?' with a list of links to related resources.

Surf Your Watershed

The screenshot shows the 'Surf Your Watershed' website. It provides a single portal to watershed information, data, and resources from the U.S. Geological Survey, U.S. Department of Agriculture, and the U.S. Environmental Protection Agency. The website includes a search bar, a map of the United States, and a list of watersheds.

Provides a single portal to watershed information, data and resources from the U.S. Geological Survey, U.S. Department of Agriculture and the U.S. Environmental Protection Agency.

www.epa.gov/surf

Locate a Watershed with a ZIP Code

The screenshot shows the 'Surf Your Watershed' website with a red arrow pointing to the 'Find Your Watershed' search bar. The search bar is labeled 'Find Your Watershed' and has a 'Search' button. Below the search bar, there is a text input field for a ZIP code and a 'Go' button.

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Watershed Profile

Upper San Antonio Watershed -- 12100301

Upper San Antonio Watershed Profile

Watershed Name: Upper San Antonio
 USGS Cataloging Unit: 12100301
 To 20th Congressional District
 To 20th Congressional District
 To 20th Congressional District

Other useful, nonpublic data from this watershed. Provided by EPAHQ:

Environmental Statistics Available for this watershed:

National Water Quality Network (NWN) provided by Conservation Technology Information Center (CTIC)

Assessments of Watershed Health

- Assessed Status for this watershed
- Assessed Status by watershed
- State

Information provided by the United States Geological Survey (USGS) (2/12/2008)



- Stream Flow (Stream USGS)
- Stream Discharge (USGS)
- Water Use Data (USGS)
- Water Use Data (USGS)

Information about the amount of water used and how it is used.

Other USGS Statistics

Other USGS Statistics

Other USGS Statistics

Link to Stakeholders: Adopt Your Watershed

Upper San Antonio Watershed -- 12100301

Upper San Antonio Watershed Profile

Watershed Name: Upper San Antonio
 USGS Cataloging Unit: 12100301
 To 20th Congressional District
 To 20th Congressional District
 To 20th Congressional District

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Information about the amount of water used and how it is used.

Other USGS Statistics

Other USGS Statistics

Other USGS Statistics

Adopt Your Watershed

Search Results

Group Name: Watershed Land Trust - Texas
 Contact: Texas, Austin, TX
 Contact Address: 200 E. 10th Street, Suite 200
 Austin, Texas 78702
 Contact Phone: 512.774.6262
 Contact Email: info@watershedlandtrust.org

Group Name: Watershed Land Trust - Texas
 Contact: Texas, Austin, TX
 Contact Address: 200 E. 10th Street, Suite 200
 Austin, Texas 78702
 Contact Phone: 512.774.6262
 Contact Email: info@watershedlandtrust.org

Link to USGS Information

Surf Your Watershed

Upper San Antonio Watershed -- 12100301

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- Stream Flow (Stream USGS)
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- Water Use Data (USGS)
- Water Use Data (USGS)

Information about the amount of water used and how it is used.

Other USGS Statistics

Other USGS Statistics

Other USGS Statistics

USGS Stream Flow Information

USGS National Water Information System: Web Interface

Real-time Data -- 4 site(s) found
 PROVISIONAL DATA SUBJECT TO REVISION

Station Number	Date/Time	Gage Height, Feet	Discharge, cfs	Flow Status	Flow Type
08R095	11/20/2008 10:15	2.56	361	--	--
08R095	11/20/2008 10:15	2.56	361	--	--
08R095	11/20/2008 10:15	2.56	361	--	--
08R095	11/20/2008 10:15	2.56	361	--	--
08R095	11/20/2008 10:15	2.56	361	--	--

USGS Flow Data

Summary of all available data for this site

Available Parameters

- Discharge
- Gage Height
- Water Temperature
- Water Quality
- Water Use

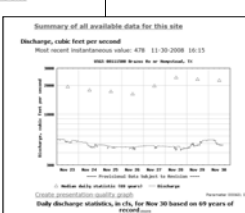
Summary of all available data for this site

Date / Time	Gage Height, Feet	Discharge, cfs
11/23/2008 00:00	10.38	554
11/23/2008 00:15	10.37	549
11/23/2008 00:30	10.37	549
11/23/2008 00:45	10.37	549
11/23/2008 01:00	10.38	554
11/23/2008 01:15	10.37	549
11/23/2008 01:30	10.38	554
11/23/2008 01:45	10.37	549
11/23/2008 02:00	10.38	554
11/23/2008 02:15	10.37	549
11/23/2008 02:30	10.36	545
11/23/2008 02:45	10.37	549
11/23/2008 03:00	10.36	545
11/23/2008 03:15	10.36	545
11/23/2008 03:30	10.38	554

Summary of all available data for this site

Discharge, cubic feet per second

Most recent instantaneous value: 478 11/20/2008 10:15



Most Recent Data

Year	Min	Max	Mean	SD
1985	478	776	2240	6700
1991	478	776	2240	6700

Other Methods to Locate a Watershed - County Profile

Surf Your Watershed

Find your watershed using the form below. Once you have found your watershed, you will be able to find citizen based groups that are active in your watershed.

Find your watershed

Step 1) Pick your geographic unit:

3 digit USGS hydrologic cataloging code
 Country Name
 National Estuary Program
 Community Water System ID #
 Large Ecosystem

Step 2) Enter your geographic information: austin

Submit Reset

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Select a Watershed


Surf Your Watershed

Search: All EPA | This Area

You are here: EPA Home > State > Statewide, County & Watershed > Watersheds >

Austin County

Austin County, TX



Current Population (2000 U.S. county) 507,666

This county crosses 4 watersheds:

Find environmental information for each of these watersheds:

- 12070101 Lower Brazos-Little Brazos; state(s): TX
- 12070104 Lower Brazos; state(s): TX
- 12090202 Lower Colorado-Cummins; state(s): TX
- 12090401 San Bernard; state(s): TX

Watershed Profile Page

Lower Brazos-Little Brazos Watershed -- 12070101

Watershed Profile

Watershed Name: Lower Brazos-Little Brazos
 61001 Cataloging Year: 12/7/1999
 TX 35th Congressional District
 TX 10th Congressional District
 TX 17th Congressional District

State Name: Select at each of the watershed. Provided by subject user. Watershed?

Water Quality Monitoring Data from this watershed. Provided by: 8709070

Environmental Indicators: Select the watershed

National Watershed Network (provided by Conservation Technology Information Center) 507,666

Assessments of Watershed Health

- Assessed status for this watershed
- Assessed waters by watershed
- State

Information provided by the United States Geological Survey (USGS) 507,666

- Stream Flow (Rivnet: 0504)
- Stream in Use (Waterbody)
- Water Use Data (1992-2002): Information about the amount of water used and how it is used.
- Watershed Land Use/cover

Places Involving this Watershed

Countries:

- Austria
- Bahamas
- Bolivia
- Burkina Faso
- Canada
- Chad
- China
- Colombia
- Costa Rica
- Cuba
- Dominican Republic
- Egypt
- France
- Germany
- Ghana
- Guatemala
- Haiti
- Honduras
- India
- Indonesia
- Italy
- Jamaica
- Japan
- Kenya
- Madagascar
- Mali
- Mexico
- Morocco
- Nicaragua
- Niger
- Nigeria
- North Korea
- Peru
- Poland
- Romania
- Russia
- Saudi Arabia
- Senegal
- Seychelles
- Slovakia
- Slovenia
- South Africa
- South Korea
- Spain
- Sweden
- Switzerland
- Taiwan
- Tanzania
- Togo
- Turkey
- Uganda
- Ukraine
- United Kingdom
- United States
- Vietnam
- Zambia
- Zimbabwe

Watershed Location Options

- Zip Code
- City Name
- Watershed Name
- State
- Stream
- USGS HUC
- County Name
- National Estuary Program
- Community Water System ID#
- Large Ecosystem

Surf Your Watershed

Find your watershed using the form below. Once you have found your watershed, you will be able to find stream-based groups that are active in your watershed.

Find your watershed

How do I find your geographic info?

City Name
 Watershed Name (Name associated with 8 digit HUC code)
 Name of stream (state abbreviation)
 Stream (Stream name and state abbr. e.g., Fall Creek, NC)

Surf Your Watershed

How do I enter your geographic information?

Search Results: austin

List of Huc Codes Produced by Search

(search for: austin)

- 05110002 Austin; state: IN
- 02050202 Austin; state: WA
- 12090202 Austin; state: TX
- 02050202 Austin; state: OH

Stream Search Results

List of Huc Codes Produced by Search

(search for: slaughter, tx)

- 12090202 Slaughter Creek; state(s): TX

Watershed Hub


U.S. Environmental Protection Agency

Watersheds

Search: All EPA | This Area

You are here: EPA Home > State > Statewide, County & Watershed > Watersheds > Home Page

We all live in a watershed - the area that drains to a common waterway, such as a stream, lake, estuary, wetland, aquifer, or even the ocean - and our individual actions can directly affect it. Working together using a watershed approach will help protect our nation's water resources.



Watershed Questions | Watershed Glossary | Watershed Calendar

State | Statewide, County & Watershed

www.epa.gov/owow/watershed

Listserve

Watersheds

Search: All EPA | This Area

You are here: EPA Home > State > Statewide, County & Watershed > Watersheds > Listserve

Listserve

Watershed communication services provided by EPA are highlighted below:

Send Comments

Use the 8 Clearhouses/Hotlines

- Drinking Water
- Watersheds

Join Listserve

- Watersheds Listserve - get your water news directly from the source, the EPA's Office of Water
- Watershed News
- The Volunteer Monitoring (Volunteer) Listserver
- Biocriteria/Bioassessment Listserver
- Non-Point Source Information (NPSINFO) email listserver
- EPA Public Listserve
- Standards and Applied Science Division Water Quality Standards News (WQS-NEWS)

Listserve

Watersheds

Search: All EPA | This Area

You are here: EPA Home > State > Statewide, County & Watershed > Watersheds > Listserve

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- Standards and Applied Science Division Water Quality Standards News (WQS-NEWS)

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EPA Public Listserves

Name	Description	Members Today	Subscribe
ADIRONDACK	Private - For States and EPA only	yes	subscribe
AQUATOTO	Notification of updates to the America's children and the environment website.	yes	subscribe
ADIRONDACK	Integrated Reporting: Electronic 305(b)/303(d)/TMDL	yes	subscribe
ADIRONDACK	National Agriculture Compliance Assistance Center	yes	subscribe
ADIRONDACK	Listserve of the EPA Aging Initiative	yes	subscribe
ADIRONDACK	For users of the AQG Data Mart and air quality analysts	yes	subscribe
ADIRONDACK	Private List of AQUATOX Users	yes	subscribe
ADIRONDACK	ARCHITECTURE	yes	subscribe
ADIRONDACK	Private list for BASINS users	yes	subscribe
ADIRONDACK	BOPSAT group	yes	subscribe
ADIRONDACK	EPA Brownfields program news	no	subscribe
ADIRONDACK	Superfund, TSL, RCRA, RSW & Oil Information Center	yes	subscribe
ADIRONDACK	EPA-NOAA CAMO Team	yes	subscribe
ADIRONDACK	Center for Exposure Assessment Modeling (CEAM) Discussion Group	yes	subscribe
ADIRONDACK	A periodic announcement of new technology transfer products from US EPA's Center for Environmental Research Information	yes	subscribe
ADIRONDACK	CRIS System status updates	yes	subscribe
ADIRONDACK	CFusers	yes	subscribe
ADIRONDACK	Emission Factor & Inventory Group	yes	subscribe
ADIRONDACK	To Facilitate the structure of the CSAQ	yes	subscribe
ADIRONDACK	Cleanup Newsletter	yes	subscribe
ADIRONDACK	Climate change communications, outreach, and	yes	subscribe

Watershed Information

Watershed Home | The Watershed Approach | Where You Live | Watershed Academy | Laws | Publications | Technical Tools | Watershed News | Related Links

Listserves

Watershed communication services provided by EPA are highlighted below:

Send Comments

Use the 8 Clearinghouses/Hotlines

- Drinking Water
- Wetlands

Join Listserves

- [WaterNews Listserve](#) - get your water news directly from the source, the EPA's Office of Water
- [Watershed News](#)
- [The Volunteer Monitoring Volunteer Listserve](#)
- [Bioassessment/Assessment Listserve](#)
- [Non-Point Source Information \(NPSINFO\) email listserve](#)
- [EPA Public Listserves](#)
- [Standards and Applied Science Division Water Quality Standards News \(WQS-NEWS\)](#)

www.epa.gov/owow/watershed/talk.html

Watershed News

Watershed News is a publication of EPA's Office of Watersheds, Oceans, and Watersheds. It is designed to provide timely information to groups working at the watershed level.

November 2008

Watershed News is a monthly electronic newsletter for those working on a watershed level. Topics include conferences and workshops, news, and funding opportunities.

www.epa.gov/watershed/news.html

Learning Opportunities

Watershed Home | The Watershed Approach | Where You Live | Watershed Academy | Laws | Publications | Technical Tools | Watershed News | Related Links

Listserves

Watershed communication services provided by EPA are highlighted below:

Send Comments

Use the 8 Clearinghouses/Hotlines

- Drinking Water
- Wetlands

Join Listserves

- [WaterNews Listserve](#) - get your water news directly from the source, the EPA's Office of Water
- [Watershed News](#)
- [The Volunteer Monitoring Volunteer Listserve](#)
- [Bioassessment/Assessment Listserve](#)
- [Non-Point Source Information \(NPSINFO\) email listserve](#)
- [EPA Public Listserves](#)
- [Standards and Applied Science Division Water Quality Standards News \(WQS-NEWS\)](#)

www.epa.gov/owow/watershed/talk.html

Watershed Academy

- Live classroom training
- Publications and resources
- Online training modules on topics of watershed management (learn about watershed solutions)
 - www.epa.gov/watertrain
- Monthly Webcasts on current topics and issues
 - www.epa.gov/watershedwebcasts

www.epa.gov/owow/watershed/wacademy

NPS News-Notes

Nonpoint Source News Resources

Nonpoint Source News-Notes

The Center for Nonpoint Pollution Management & Research
The Center for Watershed Protection

Search All Issues of News-Notes by Keyword:

Current Issue
November 2008, #103

A quarterly publication focused on water quality and nonpoint source pollution control.

www.epa.gov/owow/info/NewsNotes

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Model Ordinances

- Aquatic Buffers
- Erosion & Sediment Control
- Open Space Development
- Stormwater Control Operation & Maintenance
- Illicit Discharge
- Post Construction Controls
- Source Water Protection
- Miscellaneous Ordinances
www.epa.gov/nps/ordinance



A data bank of ordinances developed around the country that are protective of water resources and watersheds.

Example Model Ordinances: Illicit Discharges

Model Ordinances to Protect Local Resources

Illicit Discharges

Illicit discharge is defined as any discharge to the municipal separate storm sewer system that is not consistent with the design of the system. Illicit discharges include, but are not limited to, the following: (1) any discharge of storm water from any building, structure, or paved area; (2) any discharge of storm water from any roof, gutter, or downspout; (3) any discharge of storm water from any parking lot, driveway, or other paved area; (4) any discharge of storm water from any other source that is not a permitted source of storm water.

1. **First Month, Texas Environmental Code, Stormwater Protection**
For stormwater protection, the local government shall adopt and enforce an ordinance that meets or exceeds the requirements of the Texas Environmental Code, Chapter 261, Subchapter C, Section 261.001.
2. **Washington County, Michigan Regulation for Impervious Residential Onsite Drainage Systems as Property Ties**
The local government shall adopt and enforce an ordinance that meets or exceeds the requirements of the Michigan Regulation for Impervious Residential Onsite Drainage Systems as Property Ties, Chapter 207, Section 207.001.
3. **Washington County, Michigan Regulation for Impervious Residential Onsite Drainage Systems as Property Ties**
The local government shall adopt and enforce an ordinance that meets or exceeds the requirements of the Michigan Regulation for Impervious Residential Onsite Drainage Systems as Property Ties, Chapter 207, Section 207.001.
4. **City of Monterey, California Stormwater Ordinance**
The City of Monterey has adopted an ordinance that meets or exceeds the requirements of the California Stormwater Ordinance, Chapter 207, Section 207.001.

NPS Outreach Digital Toolbox

Self-contained toolkit of public outreach and education products on nonpoint source pollution.



www.epa.gov/owow/nps/toolbox

Enforcement and Compliance History Online (ECHO)

Enforcement & Compliance History Online (ECHO)

Welcome

Use ECHO to determine whether a facility is in compliance with the Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES). ECHO provides information on facility compliance, violation, enforcement action, informal enforcement action, and penalty information by EPA/state enforcement.

Facility compliance, violation, enforcement action, informal enforcement action, and penalty information by EPA/state enforcement.

www.epa-echo.gov/echo

ECHO Accesses ICIS and PCS

Enforcement & Compliance History Online (ECHO)

Search Compliance Data (Water - ICIS-NPDES)

ICIS (Interim Compliance Information System) and PCS (Period Compliance System) are the two systems used by EPA to track NPDES compliance. ECHO has separate query interfaces for PCS and ICIS-NPDES. To view data from a particular state, please choose the appropriate interface by clicking a state name. Note: Compliance information for each facility is displayed under each state heading. For unapproved or unpermitted discharges, we need the NPDES permit number to view the data. Additionally, we need the NPDES permit number to view the data. If you need the NPDES permit number, please contact the appropriate state authority.

Search by State: [Dropdown menu]

Search by Topic: [Dropdown menu]

ECHO Search Parameters

ECHO Search Compliance Data (Water - ICIS-NPDES)

Facility Name: [Text box]

Permit No.: [Text box]

NPDES No.: [Text box]

ICIS Code: [Text box]

NPDES Code: [Text box]

State/Division: [Text box]

Facility Description: [Text box]

Search Parameters:

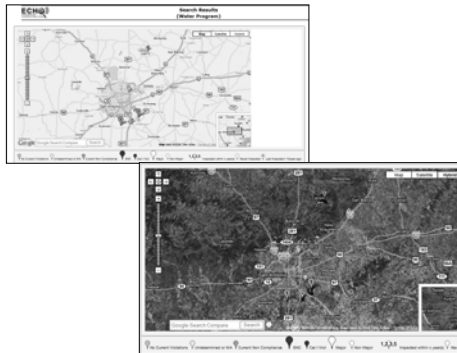
- Facility Name: [Text box]
- Permit No.: [Text box]
- NPDES No.: [Text box]
- ICIS Code: [Text box]
- NPDES Code: [Text box]
- State/Division: [Text box]
- Facility Description: [Text box]

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ECHO Search Results

Agency Information	Parameter	Units	Stat	Stat	Stat	Stat	Stat
...

ECHO Maps

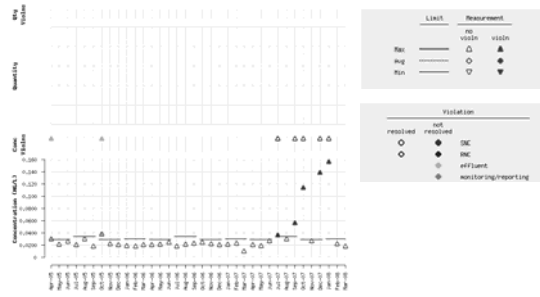


Example ECHO Data

Type	Value	Limit	Stat	Stat	Stat	Stat	Stat
Max	0.021	40.029					
Min	0.006						
Max	0.03	40.034					
Min	0.018						
Max	0.022	40.029					
Min	0.006						
Max	0.03	40.034					
Min	0.006						
Max	0.194						
Min	0.027	40.029					
Max	0.138						
Min	0.158						
Max	0.022	40.03					
Min	0.018						

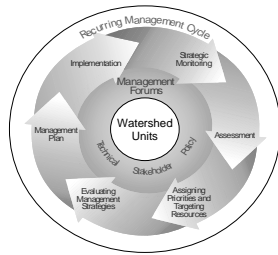
CENTRAL VALLEY WATER RECLAM
 Permit ID: 17004782 Discharge point: 801
 Address: 1188 SOUTH 800 WEST Parameter: Oxide, total residual
 2007W.S.C. 07.04100079 Monitoring location: Effluent pipe
 Status: Effective Outfall types: 44
 Designation: Inp Sampling period: Monthly
 Owner/Operator: Municipal or water district Dates: 2008.04.01 - 2008.03.31

Example ECHO Data



SUSTAIN: System for Urban Stormwater Treatment and Analysis INtegration

- Identify management options
- Evaluate load reduction
- Estimate cost
- Develop alternatives
- Rank and compare alternatives
- Select "optimal" solutions
 - Best value solutions
- Develop schedules and implementation plan
- Track progress toward meeting goals



A GIS-based framework designed to support watershed management decision-making.

Comparisons of Public Domain Modeling Frameworks

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> BASINS <ul style="list-style-type: none"> Large-mid size watersheds Primarily Rural Limited BMPs | <ul style="list-style-type: none"> TMDL Toolbox <ul style="list-style-type: none"> Large-mid size watersheds Primarily Rural Limited BMPs | <ul style="list-style-type: none"> SUSTAIN <ul style="list-style-type: none"> Mid-small size watersheds Urban <ul style="list-style-type: none"> Sewers Channels Stand-alone BMP module Cost-optimization |
|---|---|---|

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Future Training Opportunities

- SUSTAIN Workshops:
 - February, 2009: Chicago, IL
 - March, 2009: Atlanta, GA
 - April, 2009: Seattle, WA
- Contact: Dennis Lai, EPA Office of Research and Development
Phone: (732) 321-6632 E-mail: lai.dennis@epa.gov
- Key EPA Tools for Watershed Management
Contact: Jennifer McDonnell, Tetra Tech

Thank you



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