

# Washington Stormwater Center



## Washington Stormwater Center

Offering stormwater management assistance to Washington NPDES permittees and stormwater managers by providing access to information, training, permit assistance, research and emerging technologies.



# A New Resource for NPDES Stormwater Permittees



Who are we? Where did we come from? HB 2222 –RCW 90.48.545

## Development efforts included:

- Department of Ecology
  - City of Puyallup
  - Washington State University, Puyallup
  - University of Washington, Tacoma Center for Urban Waters
  - Association of Washington Business Institute
  - Herrera Environmental Consultants
- **Non-profit** joint venture between WSU and UW-Tacoma
- First-year funding through Ecology grant



# A New Resource for NPDES Stormwater Permittees



## Our Mission

*To protect Washington's waters through improvements in stormwater management, serving as the central resource in Washington for integrated NPDES education, permit technical assistance, stormwater management and new technology research, development, and evaluation*

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## Our vision

*The Washington Stormwater Center will be the preferred one-stop source of stormwater management support systems, knowledge, and resource referrals for all businesses and governmental agencies in Washington State*



# A New Resource for NPDES Stormwater Permittees



- What we provide:
  - Stormwater Management Assistance
  - Training
  - Emerging Technologies
  - Research
  - Information clearinghouse



# A New Resource for NPDES Stormwater Permittees



## 💧 What we provide:

### 💧 Stormwater Management Assistance

- Answering questions about permit requirements
- Providing a non-regulatory connection to help
- Coordinate specific questions with appropriate Ecology Staff
- Offer a neutral setting for permittee peer communication

### 💧 Training

### 💧 Emerging Technologies

### 💧 Research

### 💧 Information clearinghouse



# A New Resource for NPDES Stormwater Permittees



## 💧 What we provide:

💧 Stormwater Management Assistance

💧 Training

- Developing videos and guidance materials on permit requirements
- Training on stormwater management techniques and practices
- Breaking down permit requirements into manageable pieces

💧 Emerging Technologies

💧 Research

💧 Information clearinghouse



# A New Resource for NPDES Stormwater Permittees



## What we provide:

- Stormwater Management Assistance
- Training
- Emerging Technologies
  - Technology Assessment Protocol-Ecology (TAP-E) program
  - Analyzing and disseminating in-field research data
  - Coordinating efforts for a nationally-recognized review system
- Research
- Information clearinghouse



# A New Resource for NPDES Stormwater Permittees



## What we provide:

- Stormwater Management Assistance
- Training
- Emerging Technologies
- Research
  - Developing Low Impact Development standards and protocols
  - Analyzing performance of Low Impact Development installations
  - Developing innovative and cost effective technical solutions
  - Conducting pilot projects to test solutions
- Information clearinghouse



# A New Resource for NPDES Stormwater Permittees

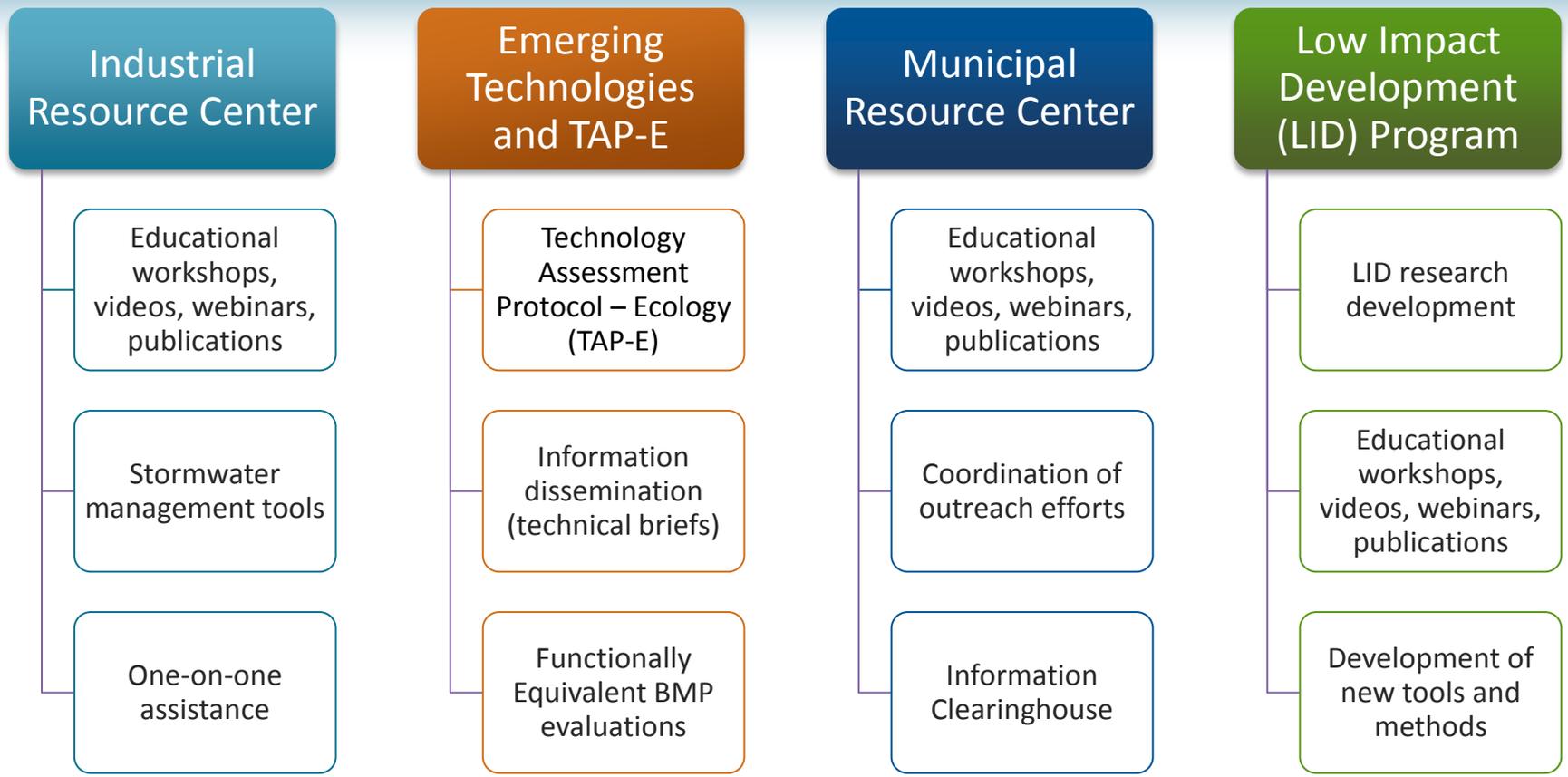


## What we provide:

- Stormwater Management Assistance
- Training
- Emerging Technologies
- Research
- Information clearinghouse
  - Serving as outreach and clearinghouse center for stormwater technologies, training, and literature
  - Publishing an all-inclusive stormwater events calendar
  - Sharing stormwater news from throughout the region



# Overview of Departments and Services



# Current Products and Services



- Industrial Stormwater General Permit Training Videos
  - Special requirements laid out step-by-step
  - First in series: Pollutant Sources
  - Future videos
    - Facility Assessment
    - Drawing your site map
    - Other Stormwater Pollution Prevention Plan (SWPPP) elements



[www.stormwaterchannel.com](http://www.stormwaterchannel.com)



# Current Products and Services



## 💧 2011 University of Washington Water Symposium

💧 Sponsorship by: **WASHINGTON STORMWATER  
CENTER**

💧 Symposium topics:

- Advances in aquatic sciences, hydrology, water quality, stormwater
- Puget Sound regional ecology

💧 April 18<sup>th</sup> 2011, Kane Hall on UW Seattle Campus



# Current Products and Services



## 💧 Low Impact Development Workshops

- 💧 FREE! LID for Developers - Puyallup, April 2011
- 💧 FREE! LID for Eastern Washington Communities - Pullman, June 2011

## 💧 Clearinghouse Resources

- 💧 April 2011 will launch a new, interactive website:
  - Information clearinghouse
  - Video and photograph database
  - News, events, and discussion blogs



# Growing with Permittees



New services and products will be developed to address need and future permit requirements

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- 💧 Tell us what training gaps you have. We are ready to develop to the needs of permittees.
- 💧 We are here to help you!



# We're Here to Help



## Visit our website:

[www.wastormwatercenter.org](http://www.wastormwatercenter.org)

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## Contact us via email:

[info@wastormwatercenter.org](mailto:info@wastormwatercenter.org)

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# Questions?



# Current Products and Services



- Stormwater Informational and Training Sessions
  - Hosted by Association of Washington Business Institute
  - PREMIERE! of **WASHINGTON STORMWATER CENTER** pollutant source training video
  - Discussion of current stormwater permits, by Ecology
  - Discussion of current regulations, by AWB
  - May 2011, Spokane and Bellevue



# Emerging Technologies and TAP-E



- Technology Assessment Protocol – Ecology
  - Facilitate document reviews and recommendations to Ecology
  - Manage the Board of External Reviewers (BER)
  - Provide review of Functional Equivalent BMPs
- Foster development of new technologies
  - Develop technical briefs to guide research and future efforts to help permittees meet requirements



# Industrial Resource Center



- Permittee Assistance
  - Understanding permit requirements
  - Step-by-step training videos and materials
  - Webinars
  - Coordinate contact with Ecology for specific questions



# Industrial Resource Center



- Stormwater Management for Business
  - Development of Good Housekeeping educational materials
  - Training on Best Management Practices (BMPs)
  - One-on-one site visits



# Municipal Resource Center



## Permittee Assistance

- Develop informational workshops
- Training on Best Management Practices (BMPs)
- Municipal applications of Low Impact Development



## Outreach Efforts

- Helping community businesses understand stormwater



# Municipal Resource Center



- A Central Resource
  - Access to coordinated efforts, information and training to make following NPDES permits easier
  - Sharing lessons-learned
  - Neutral setting for NPDES groups to communicate and post meeting announcements



# Low Impact Development Program



## Performance Data

- Database of performance and test data populated by on-site installations and information from local groups

## Standards of Use

- Menu of LID treatment options and recommendations for common municipal and business applications



# Low Impact Development Program



## 💧 Lessons learned

- 💧 Share lessons learned on design, installation and operation
- 💧 Discuss cost, installation, and general performance

## 💧 Design criteria and protocols

- 💧 Develop criteria and protocols for specific LID treatment technologies through research and testing of real-world installations
- 💧 Produce ongoing updates to the Puget Sound LID Technical Guidance Manual

