



## BEST PRACTICES FOR RIVERFRONT COMMUNITIES ***TRAINING SERIES***

### ***ROOFTOP TO RIVER:*** *Tools for Restoring Watersheds*

Bringing it all together with stormwater retrofits and stream corridor projects



***November 21, 2014***  
***Utah Cultural Celebration Center***



## BEST PRACTICES FOR RIVERFRONT COMMUNITIES **TRAINING SERIES**

## *Stormwater Best Practices Workshop*

# **ROOFTOP TO RIVER:** *Tools for Restoring Watersheds*

**November 21, 2014 - Utah Cultural Celebration Center**

### AGENDA

#### **NOVEMBER 21, 2014**

##### **8:30 – 8:45 Welcome Scope of Workshop**

##### **8:45 - 9:30 Introduction: The Tools of Watershed Restoration - From the Rooftop to the Stream**

- Viewing restoration in a holistic fashion
- Regulatory drivers: MS4, TMDL, state/local stormwater regulations
- The role of the uplands
- The role of the stream corridor
- Accounting for practices in a TMDL context
- Why retrofitting is an important tool

##### **Retrofitting in the Uplands**

##### **9:30 – 10:50 The Art and Science of Stormwater Retrofitting**

- Show short video(s)
- Introduction of retrofit process, types & locations
- Go over the Retrofit Reconnaissance Investigation (RRI) form
- Set up the group exercise

##### **10:50 – 11:00 Break**

##### **11:00 – 12:30 Small Group Investigation**

- Assess site plans of the Utah Cultural Celebration Center
- Identify drainage areas and measure available footprint for retrofit and other field data
- Enter field info into a spreadsheet to derive

pollutant removal and cost information

##### **12:30 - 1:20 Lunch Break & Design Exercise Discussion**

##### **Restoring the Stream Corridor**

##### **1:20 – 2:00 Stream Restoration: Exploring Functions, Restoration Goals and Approaches**

- The battle of the approaches
- Functional triangle approach

##### **Bringing It All Together: Accounting for Practices Across the Watershed**

##### **2:00 – 3:00 Large Basin TMDLs: Lessons from the Chesapeake Bay and elsewhere**

- Bay Program process for identifying and assigning performance values to a variety of practices
- Focus on accounting for stream restoration benefits
- Lessons learned, pros and cons

##### **3:00 – 3:20 Break**

##### **3:20 – 4:00 How to Score, Rank, and Prioritize in the Context of a Watershed Plan**

- Basic components of a plan
- Why it is important to prioritize
- Examples of selecting metrics, scoring, and prioritizing
- The role of local codes?

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## *Stormwater Best Practices Workshop*

### PRESENTED BY



JORDAN RIVER  
COMMISSION



ECOLOGICAL  
PLANNING CENTER  
THE UNIVERSITY OF UTAH



**7.5 Continuing Education Credits are available to workshop attendees.**

### ABOUT THE INSTRUCTORS

#### **Bill Stacks, P.E.**

**Deputy Director of Programs  
Center for Watershed Protection**

As the Deputy Director of Programs, Bill's responsibilities include program and resource development, supervision, and marketing. With over 35 years of experience in the field, Bill is the senior resident expert on staff. Before coming to the Center, Bill worked in Baltimore City and also served as a past Center Board Member. Bill has a B.S. in Biology from St. Mary's College of MD and a M.S. in Biology from Towson University. Bill lives in Carroll County, MD with his wife.



#### **David Hirschmann**

**Program Director  
Center for Watershed Protection**

Dave joined the Center staff in 2005 as a Senior Water Resources Specialist. He has worked for 30 years in the public, private, and non-profit sectors on a variety of water resources and environmental health issues. In his life prior to the Center, Dave managed a water resources program for a local government, managed a non-profit organization, ran a small environmental consulting office, and taught water resources courses at the university level. His areas of concentration include innovative stormwater design and implementation, stormwater program development, land use planning, and training. Dave works for the Center from the satellite office in Charlottesville, Virginia. He has a B.A. in Biology from Duke University and a Masters of Urban & Regional Planning from Virginia Tech.



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## BEST PRACTICES FOR RIVERFRONT COMMUNITIES **TRAINING SERIES**

### SYNC YOUR PHONE TO THE RIVER!



There is a new digital guide to the Jordan River Parkway, and it is available on your smartphone, tablet, laptop or desktop computer. Get information about trailheads, learn about the plants and animals found along the river, access live water quality information, or browse student photographs and poetry. Share your own photographs, maps, stories or videos and you might win one of four backpacks donated by REI.

Learn more at  
[www.myjordanriver.org](http://www.myjordanriver.org)

### Get a free copy of the new Stream Care Guide

Visit [watershed.slco.org](http://watershed.slco.org)  
or call (385) 468-6643

#### Inside the guide:

- Tips to protect water quality
- Landscaping ideas
- Native plant lists
- Anatomy of a stream
- Creek facts
- Resources for more info



Published by the Salt Lake County  
Watershed Planning & Restoration Program

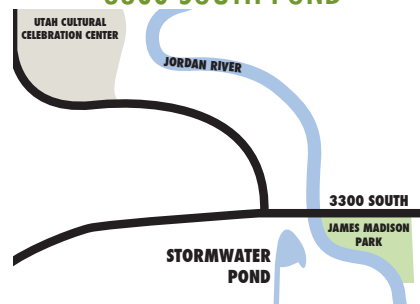
# SAVE the DATE

# MAY 31<sup>ST</sup>



Learn more at  
[www.getintotheriver.org](http://www.getintotheriver.org)

### STORMWATER IN THE FIELD 3300 SOUTH POND



The Jordan River Commission and West Valley City are starting a new stormwater and restoration project in Spring 2015. Project elements include:

- Volunteer water quality monitoring with Utah Water Watch
- Engineering and design by University of Utah Civil & Environmental Engineering College students
- Community volunteer habitat restoration efforts
- High school outreach and curriculum

Learn more at  
[www.jordanrivercommission.com/?p=6225!](http://www.jordanrivercommission.com/?p=6225!)

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## *Stormwater Best Practices Workshop*

### REGISTRATION FORM

**NAME** \_\_\_\_\_

**ORGANIZATION OR AFFILIATION** \_\_\_\_\_

**ADDRESS** \_\_\_\_\_

**CITY, STATE, ZIP** \_\_\_\_\_

**EMAIL** \_\_\_\_\_ **TEL** \_\_\_\_\_

### REGISTRATION

**Tier One** \_\_\_\_\_ **\$75**

Jordan River Commission member governments,  
JRC TAC members, non-profits, students, and  
partner agencies

**Tier Two** \_\_\_\_\_ **\$100**

All other local, state or federal governments

**Tier Three** \_\_\_\_\_ **\$125**

Private individuals and companies

**Call: (801) 536-4158**

**Email: lahanson@utah.gov**

**Jordan River Commission**

**195 North 1950 West, SLC, Utah 84116**

### PAYMENT

**1. Please make checks payable to:**

Jordan River Commission  
P.O. Box 91095  
Salt Lake City, Utah 84109

**2. Charge To:    Visa    MC    AmEx    Disc**

Circle one

**Account #** \_\_\_\_\_

**Exp. Date** \_\_\_\_\_ **Security Code** \_\_\_\_\_

**3. Register Online:**

**[www.jordanrivercommission.com/training](http://www.jordanrivercommission.com/training)**

### WORKSHOP LOCATION

This workshop will be held at the Utah Cultural Celebration Center in West Valley City. 1355 West 3100 South, West Valley City, Utah 84119 Directions are available by calling (801) 965 -5100.

### REGISTRATION DETAILS

The registration fee includes a book of speaker materials, lunches and refreshments. The Jordan River Commission's Tax ID is 27-3718105. No refunds or cancellations after February 5, 2014, but substitutions are welcome.

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Salt Lake City, Utah 84116**