

**NSF Willamette Water 2100
Stakeholder Learning Action Network (SLAN)
Lower-Willamette Basin Water System**

September 23rd and 24th, 2011

Field Trip



**Clackamas River
Annual Watershed Tour &
Presentations**

**Tualatin River Basin Tour &
Presentations**

* Images from Google Image Search

**Organized by the National Science Foundation Willamette Water 2100
Oregon State University Broader Impacts Team**

Generous Planning and Assistance Provided By:

**Clackamas River Water Providers, Clean Water Services,
NSF Willamette Water 2100 Principal Investigators,
Joint Water Commission, University of Oregon, and Portland State University**



Itinerary *(updated 9/16/2011)*

Friday September 23rd

- 9:30 AM** **Depart Oregon State University Motor Pool**
OSU Motor Pool is located at 3400 Campus Way, Corvallis, OR 97331. There will be limited (24 seats) to van pool from Corvallis
- 11:30 PM--** **Hosted 'Brown Bag' Lunch Presentation by Dr. Heejun Chang**
1:00 PM Brown bag discussion at Clean Water Services with Dr. Heejun Chang
2550 SW Hillsboro Hwy Hillsboro, OR
- 12:45 PM--** **Water Supply Project Overview**
1:00 PM Intro to Water Supply Project & Tom VanderPlaat, Clean Water Services
Video of Water for the Future Water Supply Project Manager
- 1:00 PM--** **Drive to Hagg Lake – Scoggins Valley Park headquarters**
1:15 PM
- 1:15 PM-** **Scoggins Dam/Hagg Lake and Water Supply Project**
2:00 PM Presentation by Tom VanderPlaat on the history and water supply alternatives.
- 2:00 PM –** **Drive to JWC treatment plant, Forest Grove**
2:15 PM 4475 SW Fern Hill Road
- 2:15 PM-** **Joint Water Commission Water Treatment Plant Tour**
3:15 PM Cities of Hillsboro, Forest Grove, Beaverton and the Tualatin Valley Water District share ownership and rely on Tualatin River for water supply.
- 3:15 PM-** **Drive to Forest Grove Wetland Enhancement Tour Water Quality and see a recent successful restoration project to improve water quality, mitigation and Water Services Trading(?)**
- 4:00 PM** Near SW Fern Hill Road and Geiger Road – Forest Grove.
- 4:15 PM – Debrief at Maggie's Buns in Forest Grove. Coffee Happy Hour Refreshments Provided!**
- 5:30 PM** 2007 21st Ave Forest Grove



OR 97116

Saturday, September 24th

**Clackamas River Watershed Tour
Hosted by Clackamas River Water Providers**

7:30 a.m. – 4:00 p.m.

Please plan on arriving at the North Clackamas County Water Commission water treatment plant by 7:30 a.m. to sign in and enjoy a light breakfast of coffee, muffins and juice (breakfast available by 7 AM).

Clackamas River Water Providers
14275 S. Clackamas River Rd.
Oregon City, OR 97045

A picnic lunch will be served at the Three Lynx community and plenty of snacks and beverages will be provided throughout the day. **The tour bus will leave the treatment plant promptly at 8:00 a.m.**

7:00 am	Continental Breakfast
7:45 am	Clackamas River Water Providers Introduction
8:00 am	Bus departs for Estacada
8:30 – 9:15am	USFS Clackamas River Ranger Station, Estacada Office 595 NW Industrial Way Estacada, OR 97023
9:15 – 10:00am	Drive to Timber Lake Job Corp Center
10:00 – 10:45am	Timber Lake Job Corp Center 59868 East Highway 224 Estacada, OR 97023
10:45 – 11:00am	Drive to Three Lynx
11:00 – 1:30pm	Three Lynx Community and Three Lynx/Oak Grove Powerhouse
2:00 – 3:30 pm	City of Estacada Water/Wastewater facilities
3:30 pm	Return to the North Clackamas County Water Commission water treatment plant.

II. Purpose of Lower Willamette Water System Willamette Water 2100 Tour

Researchers from the Willamette Water 2100 project at Oregon State University, Portland State University and University of Oregon and basin water managers and elected officials are invited to participate in a field trip within the Lower Willamette Water System as part of the Willamette Water 2100 Stakeholder Learning and Action Network (SLAN) to:

- 1) Improve our visual and working understanding of the water system and how our actions in one part of the system are connected to and/or can impact another part of the system.
- 2) Learn and discuss how different attributes and uses of the water systems we visit in the field can be represented in a modeling framework called Envision. Envision will be used to integrate the many parts of the water system into a “whole” and help develop scenarios for anticipating future water scarcity under different policies, land uses, management, demographics and climate change.
- 3) Enable researchers and stakeholders to share their perspectives on water scarcity and learn from each other’s expertise.
- 4) Enhance the ability of the stakeholders learning network to teach/explain to others about the complex Willamette Basin system.
- 5) Establish a network of stakeholders to review and provide input on versions of modeling work.

As “homework” for discussion during the field trip and at future work sessions, hosts and participants should be prepared to address

- 1) How the water system is used or managed through the perspective of the organization and stakeholders you serve?
- 2) What does it take to have a reliable source of water?
- 3) What are the priority issues affecting reliability for your organization or constituents?
- 4) What do you see as the current and anticipated risks to your water system?
- 5) What are your current approaches for managing these risks?
- 6) What knowledge and information will help you prepare for future scenarios?
- 7) What are the most effective ways to share knowledge about your water system?

Willamette Water 2100 project scientists will be participating in the field trip as co-learners of the water system, ask questions, share information, answer questions and discuss needs regarding how their respective research groups will be compiling and a wide range of information to support development of future water scenarios using the Envision Model Development.

III. Detailed Description and Maps of Field Stops

A. September 23rd Tualatin Basin Field Trip

Hosted Brown Bag' Lunch Presentation by Dr. Heejun Chang

Introductions and welcome by Clean Water Services



Brief Overview of the NSF Willamette Water 2100 Project, Jeff McDonnell and Sam Chan

Presentation by Dr. Heejun Chang, Portland State University, on water research conducted in the Tualatin Basin.

Field Trip Stops/Location Descriptions

Field Trip Stop #1 Water Supply Project Overview

Overview, Presentation: The Tualatin Basin Water Supply Project is a partnership of water resources agencies in the Tualatin Basin in cooperation with the Bureau of Reclamation. It was formed in 1999 to address long-range water needs. Mr. VanderPlaat will describe the purpose and need of the project and show a 10-minute video to provide an overview.

Field Trip Stop #2 Scoggins Dam/Hagg Lake

Overview, Presentation: The group will meet near the Scoggins Dam spillway and hear the history of Scoggins dam and its multi-purpose role. Mr. VanderPlaat will review the water



supply alternatives and describe the possible impacts to local resources including private property, park facilities, wildlife and wetlands. The group will review maps of the project area and the dam raise options. The current project status will be described involving the Bureau of Reclamation's Safety of Dams study.



**Field Trip Stop #3 Tour of
Joint Water Commission
Water Treatment Plant**

Overview, Presentation: This facility is the second-largest water treatment plant in Oregon. Clean Water Services Staff will describe the water providers who own the facility collectively named the Joint Water Commission; the water sources and distribution system; and provide a tour of the water treatment process. You will hear how this facility is part of the Tualatin Basin Water Supply Project.

**Field Trip Stop #4 Forest
Grove Wetland
Enhancement Tour**

This site is an example of hundreds of similar sites along the Tualatin River and its tributaries that Clean Water Services has restored into a healthy riparian buffer that provides shade credit as part of our NPDES watershed permit. The property was formerly a degraded agricultural site that was replanted in the last 5 years with native trees and shrubs. It provides multiple benefits including filtering runoff, reducing erosion and improving wildlife habitat. We will discuss ecosystem services credits trading at this site as well.



**Field Trip Debrief,
Discussion and Hosted Coffee
Happy Hour at Maggie's Buns
in Forest Grove**

Dr. Sam Chan will facilitate a discussion and debrief to determine new and important information that was learned by the stakeholders group during the field trip.



<http://www.maggiesbuns.com/>
21st Ave.
Forest Grove OR 97116

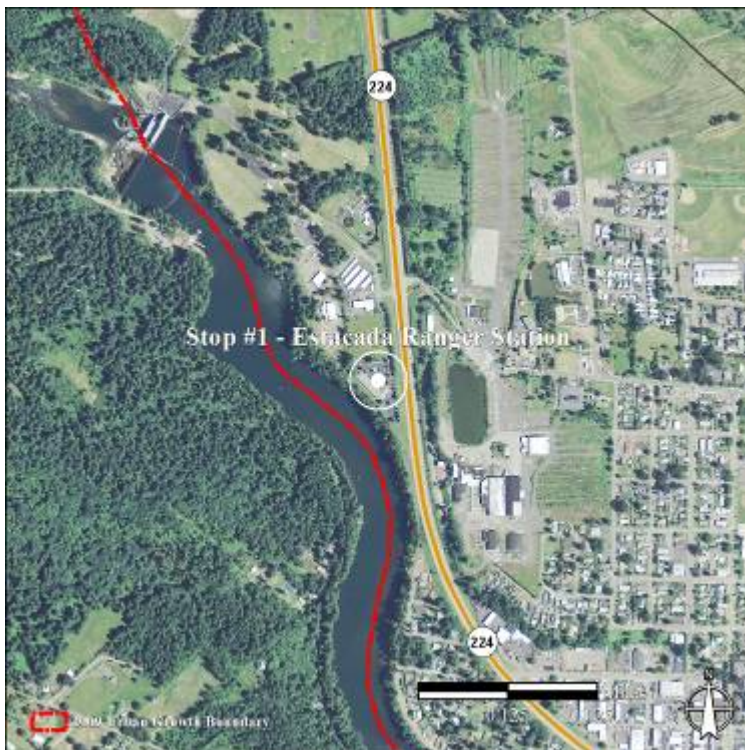
B. September 24th Clackamas River Annual Watershed Tour with Clackamas River Water Providers

Field Trip Stop #1 Clackamas River Water Providers Introduction

Overview, Presentation: Dr. Scott Wells, Portland State University, will discuss research and catchment modeling work within the Clackamas Watershed.

Field Trip Stop #2 USFS Estacada Office

Overview, Presentation Learn more about one of our biggest watershed stakeholders the USFS. Overview of Forest Service, FS role in protecting water quality, and the CSP. (Brad Siemens, USFS)
(Restroom facility available at this location)



Field Trip Stop #3 Timber Lake Job Corp Center

Overview, Presentation: Find out more about the Timber Lake Job Corps Center a no-cost education and career technical training program administered by the [U.S. Department of Labor](#) which helps young people ages 16 through 24 improve the quality of their lives through career technical and academic training. (Sharon Hernandez, USFS)



Field Trip Stop #4 Three Lynx Community and Three Lynx/Oak Grove Powerhouse

Overview, Presentation: Find out about the history behind the Three Lynx Community and school as well as PGE's Three Lynx/Oak Grove Powerhouse which began operations in 1924 and produces enough electricity to power more than 22,000 homes. This is PGE's most efficient hydro facility. (George Kramer, John Esler and Ryan Hayes, PGE, Howard Fetz, Estacada School District)

This stop will also include a **Picnic Lunch at Three Lynx Community**.
(Restroom facility available at this location)



Field Trip Stop #4 City of Estacada **Water/Wastewater facilities**

Overview, Presentation: Overview of challenges the City is facing, why they are a CRWP member, Tour of Estacada's water and wastewater treatment plants. (Dave Stone, City of Estacada) Estacada on the Clackamas: The Powerhouse Project: Oak Grove and Three Lynx (Estacada library)

Thanks!

***Please stay involved by participating in upcoming Stakeholders Learning and Action Network focus group discussions, and other events to inform the development of the Willamette 2100 Project model and other work**