



#### Presenters:

ODA – Lisa Hanson & Stephanie Page

OWEB - Meta Loftsgaarden

DEQ - Leah Feldon & Justin Green

# Key Messages

- Program:
  - Is outcome-based
  - Reflects the diversity of Oregon's landscape and agriculture
  - Is continuously improving with significant change in last 5 years
- Agency coordination:
  - ODA regulatory compliance
  - DEQ scientific and technical analysis, responsible for multiple nonpoint and point sources
  - OWEB supports agency priorities to achieve uplift
- Top priorities moving forward:
  - Strategic Implementation Areas
  - Coordinated Streamside Management expansion

## Ag Water Quality Program History

Year	Milestone	
1993	Senate Bill 1010 authorizes Ag WQ Program	
1997	Funding for ODA to develop and implement Area Plans and Rules; funding for tech assistance at SWCDs	
1997-2004	38 Area Plans and Rules developed and adopted	
2004-2012	Ag WQ regulatory efforts predominantly complaint-based; voluntary implementation ongoing	
2012- present	ODA works with partners to pursue more comprehensive strategy to better document outcomes through SIA process and Conservation Effectiveness Partnership	
2014- present	Coordinated Streamside Management approach providing additional support for monitoring and capacity at SWCDs in each SIA	

## Around the Watershed

State NR Agencies

Ag & Rural Lands

Non-federal Forests

Fisheries & Habitat needs

### Education/Outreach

Soil & Water Conservation Dist.

Ag Extension

**Watershed Councils** 

### **Funding Conservation**

Oregon Watershed Enhancement Board

**NRCS** 

**USDA Farm Service Agency** 

<u>Point Source</u> Permittees

Urban and Rural NPS

Management

Local Governments

Federal Land Management

Bureau of Land Management
US Forest Service
Corps of Engineers

<u>Private Landowners</u>

**Private Land Management** 

# Department of Agriculture

- Area Plan Biennial reviews with Local Advisory Committees
- Monitoring and evaluation
- Compliance and Enforcement

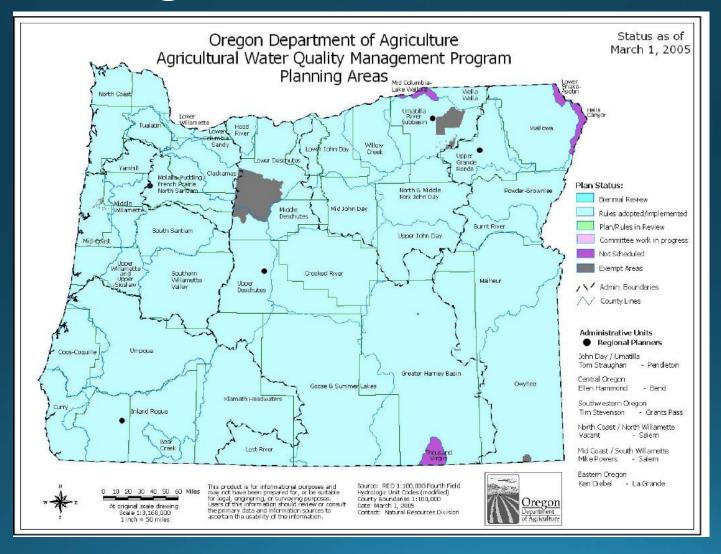
#### Department of Environmental Quality

- Technical and scientific analysis for identification of opportunities to improve water quality
- Work with ODA during biennial reviews
- Water quality status and trends
- CWA Programs

#### OR Watershed Enhancement Board

- Native fish and wildlife habitat and water quality focus
- Invest in priorities identified by natural resource agencies
- Convene and invest in interagency monitoring efforts
- Fund projects and initiatives that support "uplift"

# Ag Water Quality Management Areas – 38 Basin-Wide Plans



### Clean Water Act Framework

Water Quality Standards Monitor & Assess WQS Attainment List Impaired Waters TMDL Development: An Integrated Watershed Plan TMDL Implementation

#### **Point Sources:**

NPDES Permits POTW, Industrial, Urban Stormwater

### NonPoint Sources:

Urban, Agriculture, Forestry

### **OWEB Investment Approach**

M76 Oregon Revised Statutes

**PCSRF** 

Mission

Strategic Plan

Long-Term Investment Strategy

Two-Year Spending Plan

**Funded Activities** 

**Grant Administration & Processes** 

On-the-ground Implementation

ADAPTIVE MANAG

Ag. Water Quality Management Program

Integrated Water Resources Strategy

> Oregon Conservation Strategy

Oregon Plan for Salmon and Watersheds

Salmon Recovery Planning

Total Maximum Daily Load

**Other** 

COLOGICAL OUTCOMES

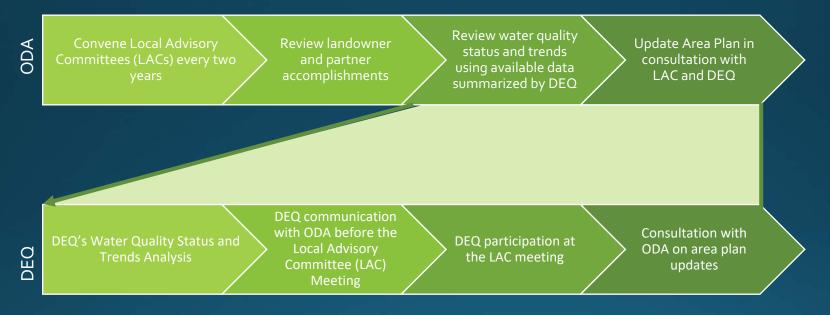
# Ag Water Quality Compliance vs Local Area Plans

Ecological uplift is greater with full area plan implementation than with only area rule compliance



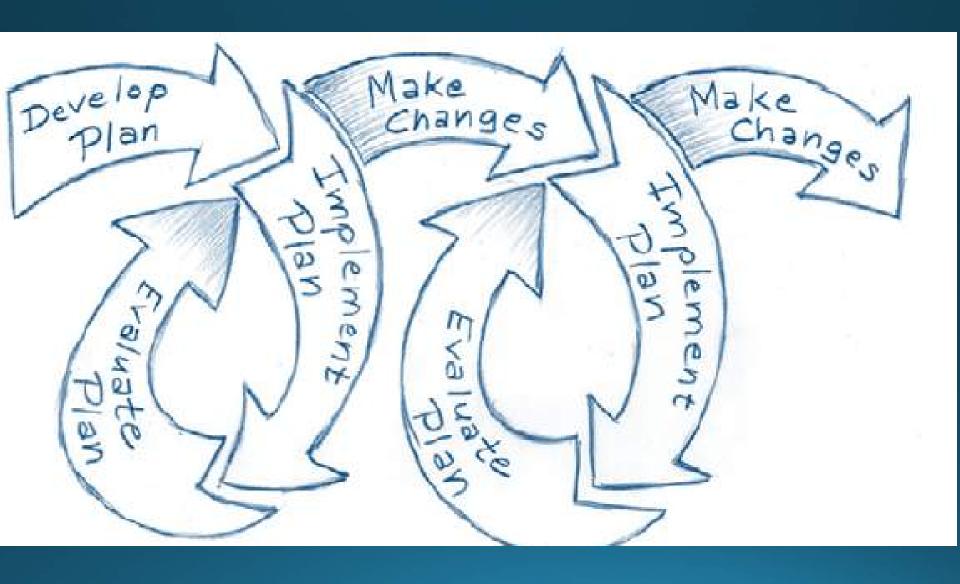
## Biennial Review Process

38 Local Area Plans — 19 reviewed per year

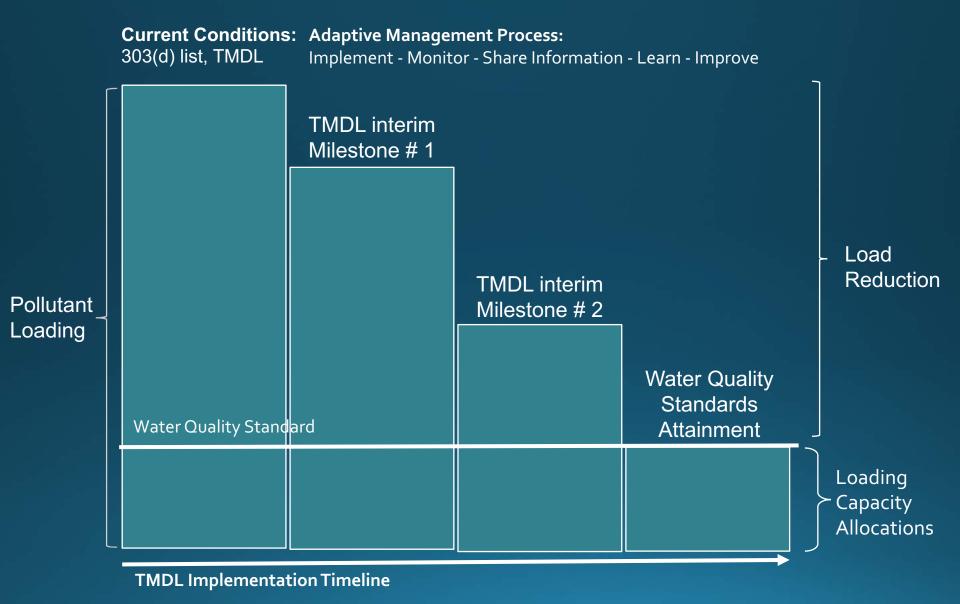


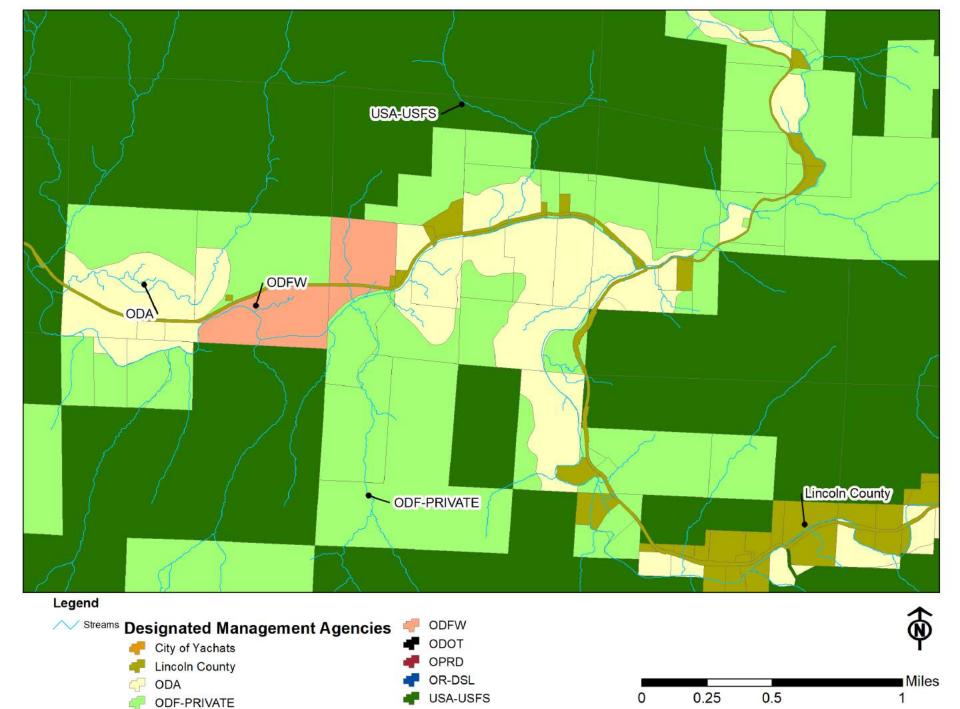
Expected Outcome: The combination of meeting Area Rules (required) and implementing Area Plans (voluntary) will meet Water Quality Standards and TMDL allocations

### Watershed Management

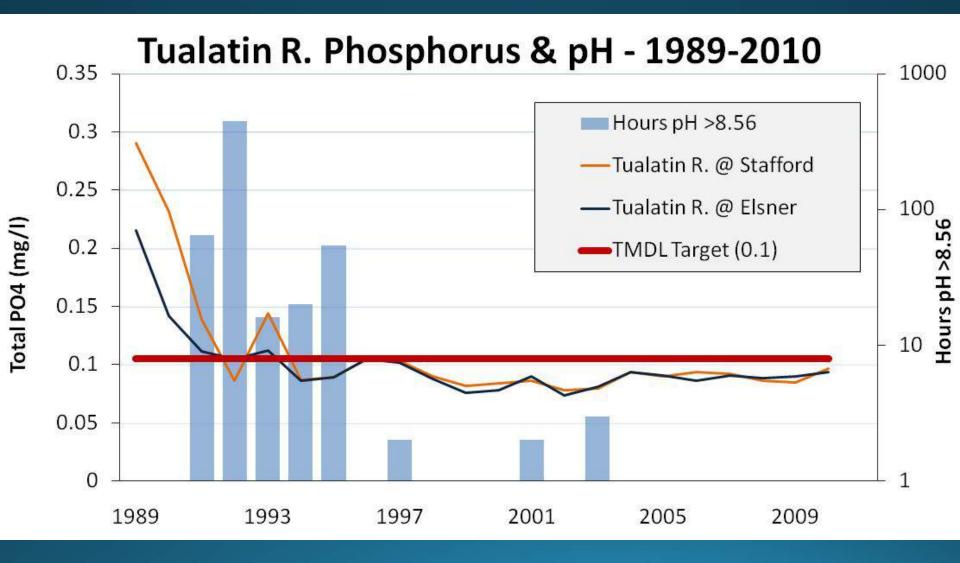


### Adaptive management & WQ improvement

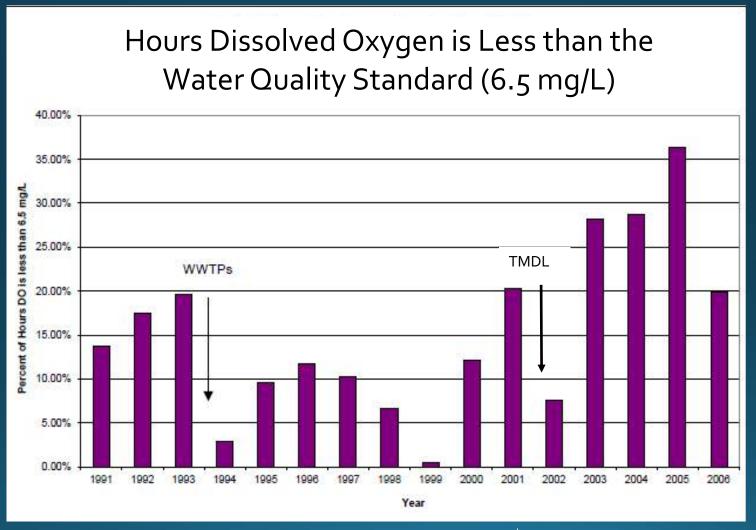




# Water Quality Improvements in the Tualatin River: pH & Total Phosphorous



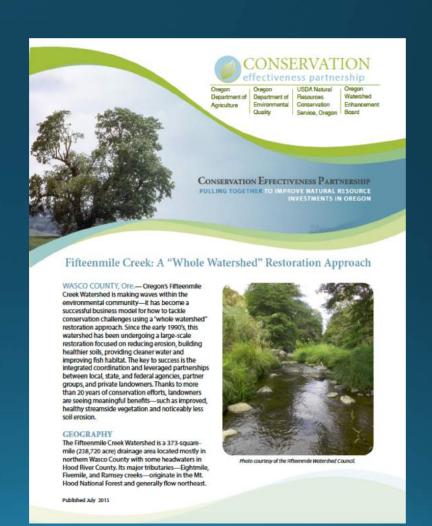
# Water Quality Status and Trends in the Tualatin Basin: Dissolved Oxygen Tualatin River @ Oswego Dam Diversion (river mile 3.4)



Graph from DEQ 2012 Tualatin TMDL: 1993 WWTP Upgrades; 2001 2nd Revised Tualatin TMDL

# Current initiatives to track progress toward and achieve outcomes

- CoordinatedStreamsideManagement (CSM)
- Strategic
   Implementation
   Areas (SIAs)



## Strategic Implementation Areas



# Example SIA Results: Mill Creek, Wasco County Tax lots in agricultural use 2013 to 2015

Evaluation Category	Pre Evaluation Results	Post Evaluation Results
Limited Opportunity for Improvement	305 tax lots	315 tax lots
Opportunity for Improvement	6 tax lots	o tax lots
Violations	4 tax lots	o tax lots
Totals	315 tax lots	315 tax lots

**Coordinated Streamside Management Timeline** 

Year 0-1

#### Year 1-4

Year 5-10

#### **Monitoring**

Agencies develop strategy with SWCD

Install equipment & gather baseline Train local SWCD on data-gathering

#### Voluntary

Technical assistance grants provided Funders coordinate on investments Implementation Strategy developed based on data and local knowledge

#### Compliance

Conduct compliance evaluation Enforce violations as necessary

#### Monitoring

Site-specific evaluations & adaptive management
Watershed-level monitoring
Reporting

#### Voluntary

Landowner outreach
Training & peer-to-peer learning
Technical assistance & project design
Project implementation

#### Compliance

Landowner outreach
Enforce violations as necessary

#### Monitoring

Site-specific evaluations & lessons learned Watershed-level monitoring Reporting

#### Voluntary

Ongoing project implementation

#### Compliance

Enforce violations as necessary

# Coordinated Streamside Management Objectives

- Prioritized watersheds based on data analysis
  - (TMDL & 303d listings)
- Document and assure ag operators are complying with WQ program rules
- Accomplish uplift on the ground through partners
- Joint monitoring efforts to capture outcomes and instream response
- Use regulatory backstop where necessary

# SIAs: Opportunities, Challenges & Barriers

### Opportunities:

- Prioritization
- Focus on streamside
- Regulatory component
- Uplift opportunities

### Challenges:

- Compliance vs uplift
- Ownership changes
- Legacy issues
- ODA capacity
- Partner capacity

## Achieving outcomes – 15-Mile Watershed



August 1992 September 2013

# Moving forward

- Prioritize work
- 19-21 agency request budget
- Continued work with partners
- Continual evaluation and maturity of program to address water quality issues

# Thank you!