



# Oregon Department of Environmental Quality

---

21-23 Budget  
Presentation

# Agenda

---

- Introduction to DEQ
- 2021-23 Budget Summary
- DEQ Programs and Policy Option Packages
- Questions



# Oregon. There's a lot to protect.

---

DEQ's mission is to restore, maintain and enhance the quality of Oregon's air, land and water to protect our communities and our natural resources.

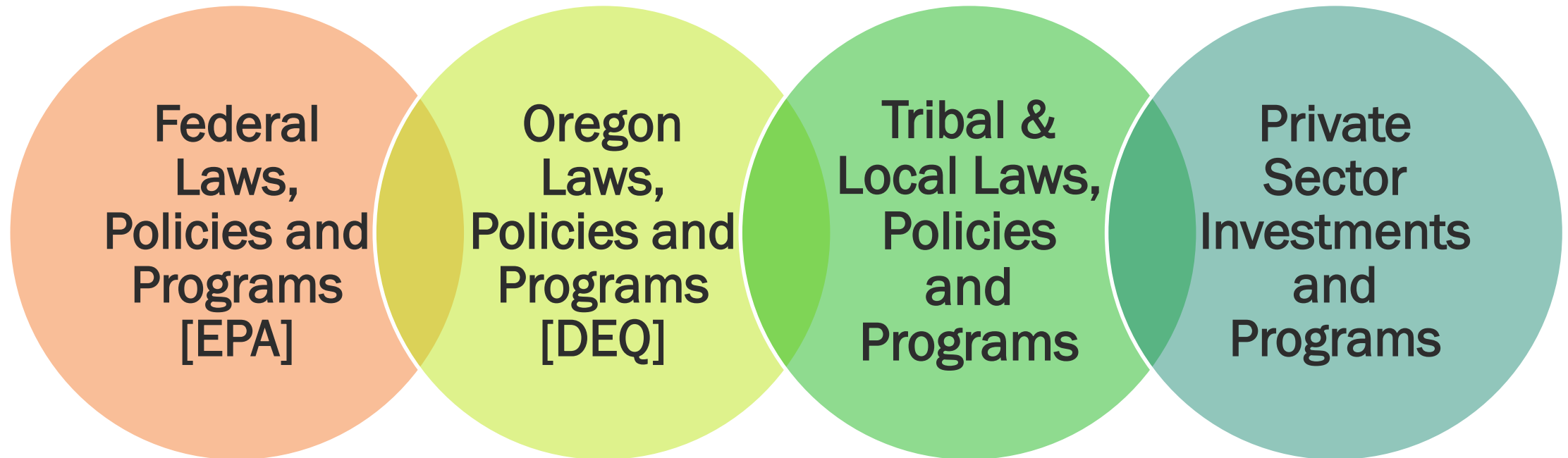
# Introduction to DEQ: What We Do

---



# DEQ Carries Out its Mission Working With Others

---



# Protecting Oregon's Environment: 2019-20



Worked with EPA to move Portland Harbor Superfund Site into Final Design – setting the foundation for a revitalized Lower Willamette

Worked with ODOT & EPA to prepare homesites for rebuilding following the September 2020 Wildfires

Reduced Greenhouse Gas Emissions from Vehicles by 1.3 Million Tons in 2019 and spurred significant investments in Oregon through the Clean Fuels Program

Protected Crater Lake & Waldo Lake by designating them as Outstanding Resource Waters

Reviewed and approved 17 new industrial sources through Cleaner Air Oregon Program

# Progress in Key Areas

## Core Work

- Air Quality Program reduced permit backlog by half
- Water Quality Program reduced permit backlog by 10 %
- Wildfire Response – Smoke monitoring and debris removal

## Air Toxics

- Cleaner Air Oregon Program lowering industrial air toxics
- Implementing multiple strategies to address diesel pollution

## Climate Protection

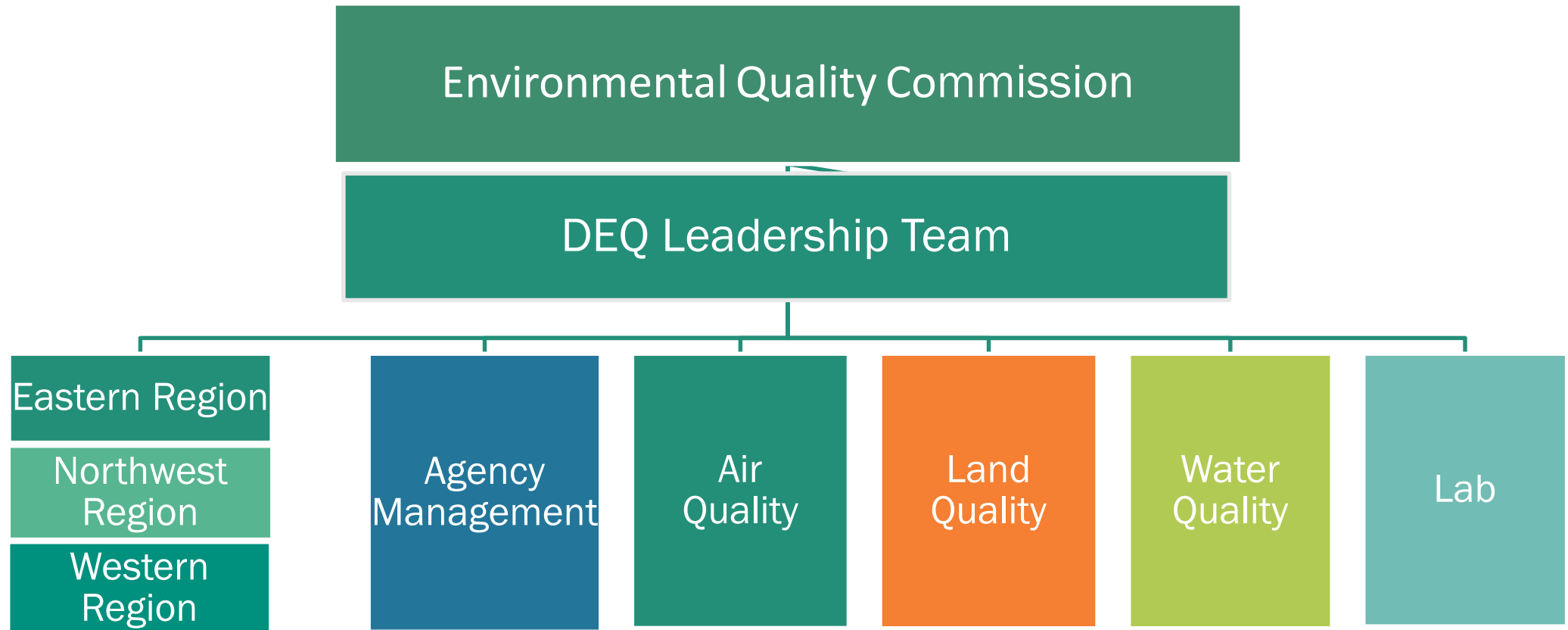
- Clean Fuels has reduced GHG emissions, created jobs, with little impact on prices
- Climate Protection Program begins in 2022

## Science & Information

- DEQ Lab helps manage risks from harmful algal blooms
- Your DEQ Online (EDMS) begins

# DEQ Structure

---



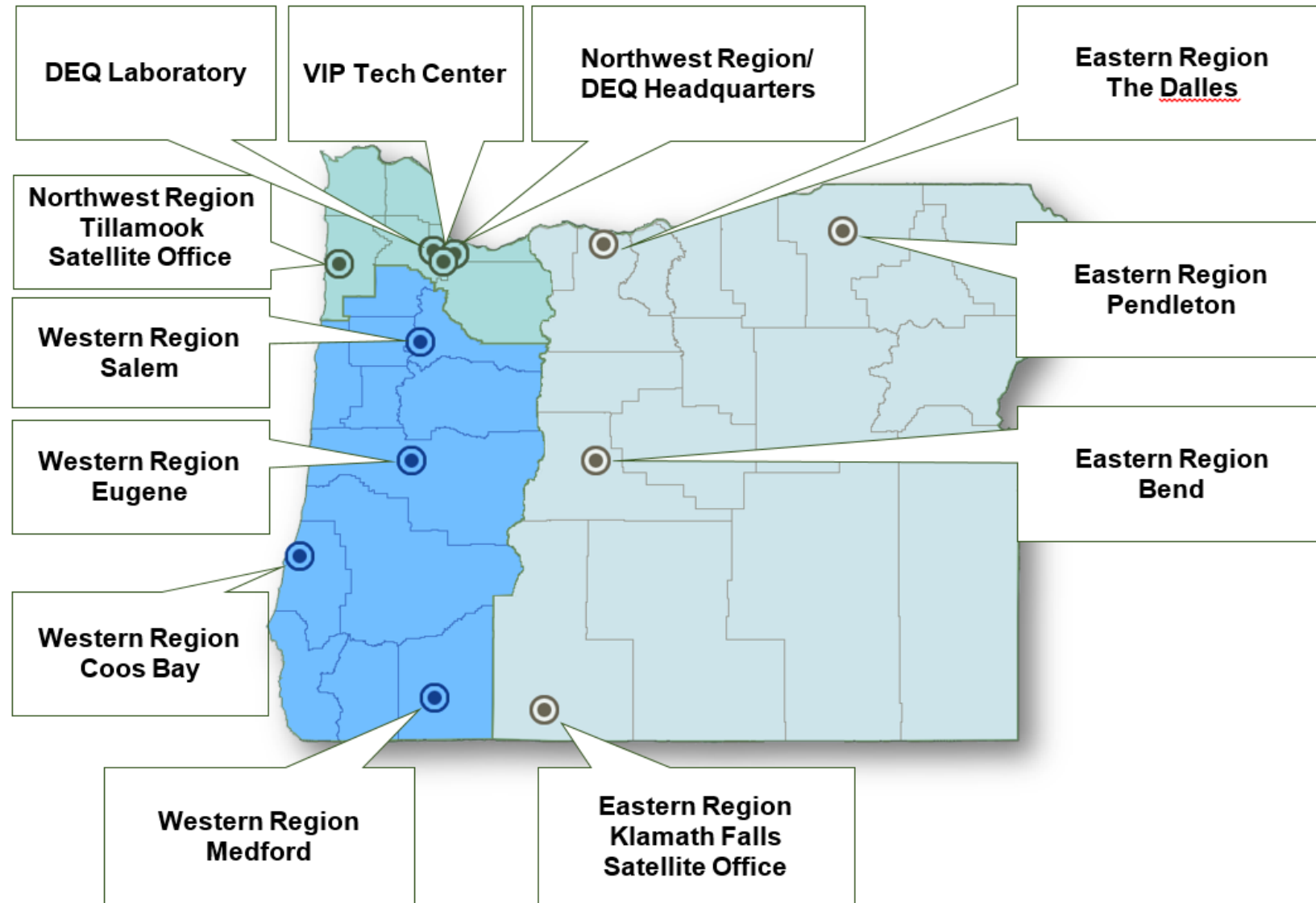


# Oregon's Environmental Quality Commission



- Chair Kathleen George
- Vice-Chair Sam Baraso
- Commissioner Molly Kile
- Commissioner Wade Mosby
- Vacant

# DEQ in Oregon's Communities



# DEQ Programs

---

## Water Quality

*Permitting, standards,  
groundwater protection*

## Air Quality

*Planning, permitting, vehicle  
inspection, GHG, air toxics*

## Land Quality

*Materials management,  
cleanup, emergency response*

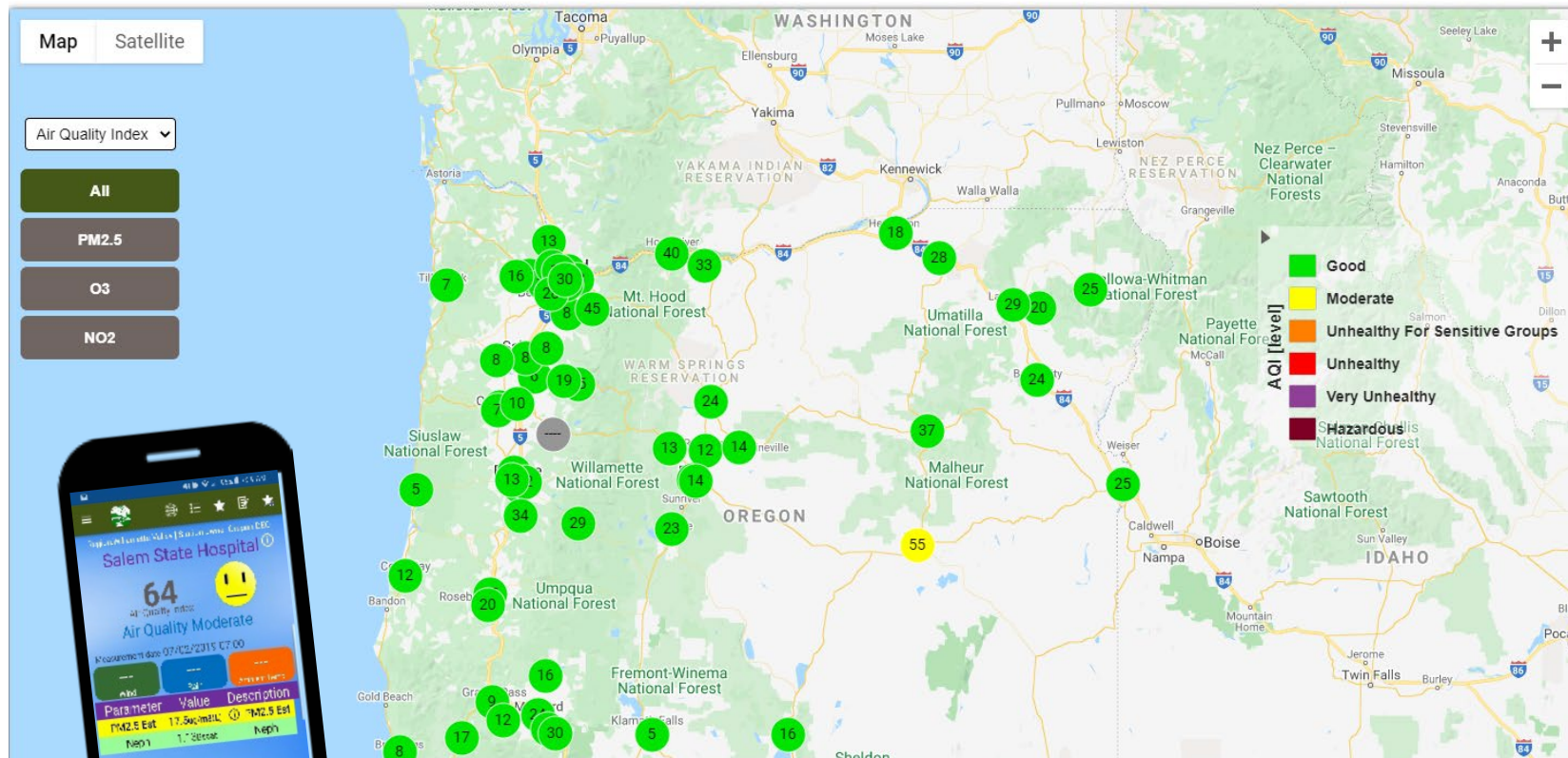
## Agency Management

*Director's Office, HR, IT,  
financial services, Compliance  
and Enforcement*

## Laboratory

*Monitoring, assessing and  
analysis of Oregon's  
environment*

# DEQ Lab - Environmental Monitoring and Science



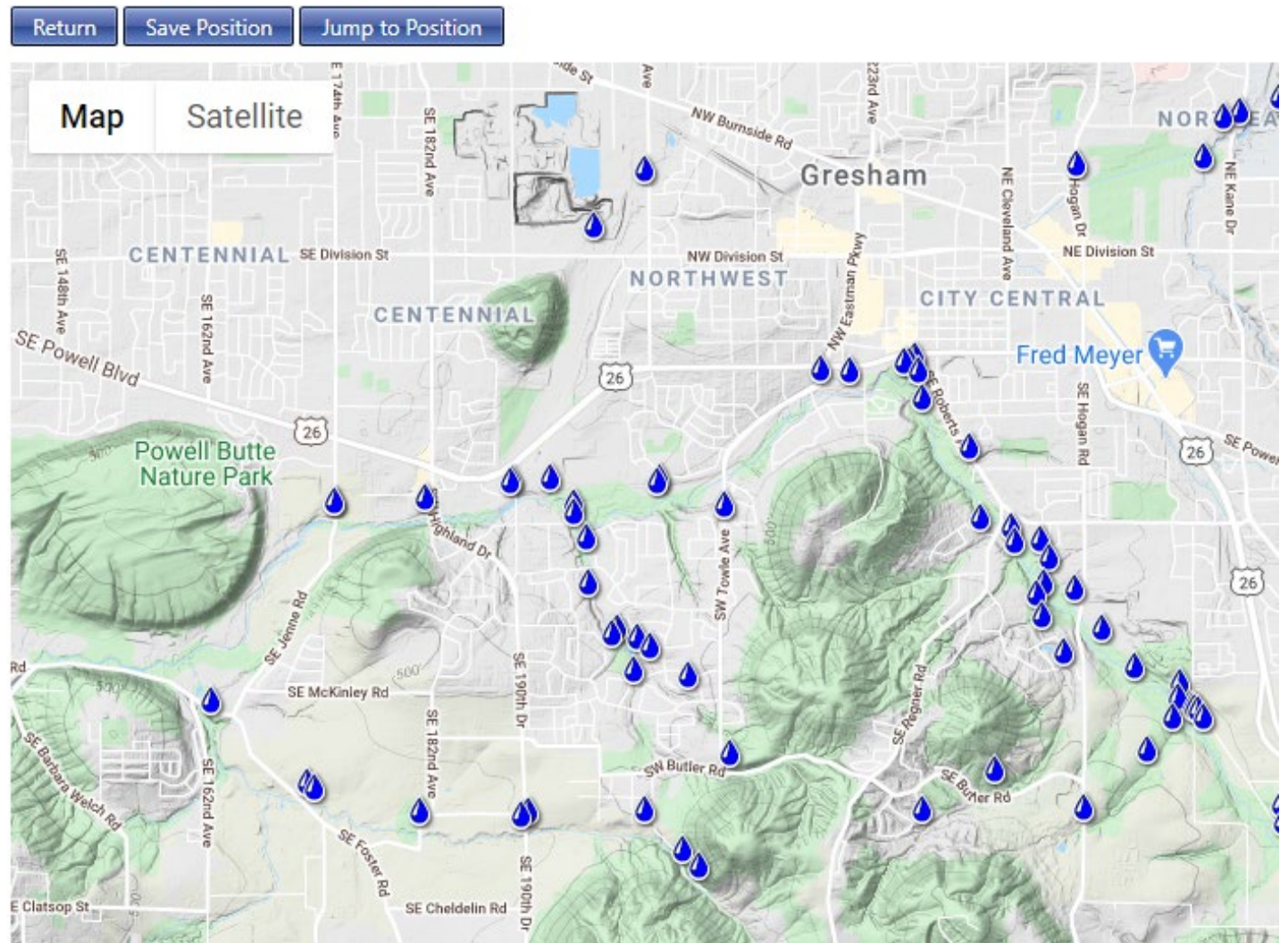
## Oregon Air Quality Index

- Upgraded AQI in 2018
- Updated hourly, statewide system
- Available using OregonAir mobile app
- Saw record traffic during 2018 wildfire season

# DEQ Lab - Environmental Monitoring and Science

## Ambient Water Quality Monitoring System

- Launched Summer 2017
- All DEQ data from 1940-present currently available
- Data from 120+ partner agencies available
- Over 16 million individual results



# Office of Environmental Justice – *Proposed* SB 286

---

## EJ Council & Staff

- 13 Members, confirmed by Senate
- Reports to Governor and Legislature
- 3 Staff positions (Manager, data analyst, community engagement specialist)

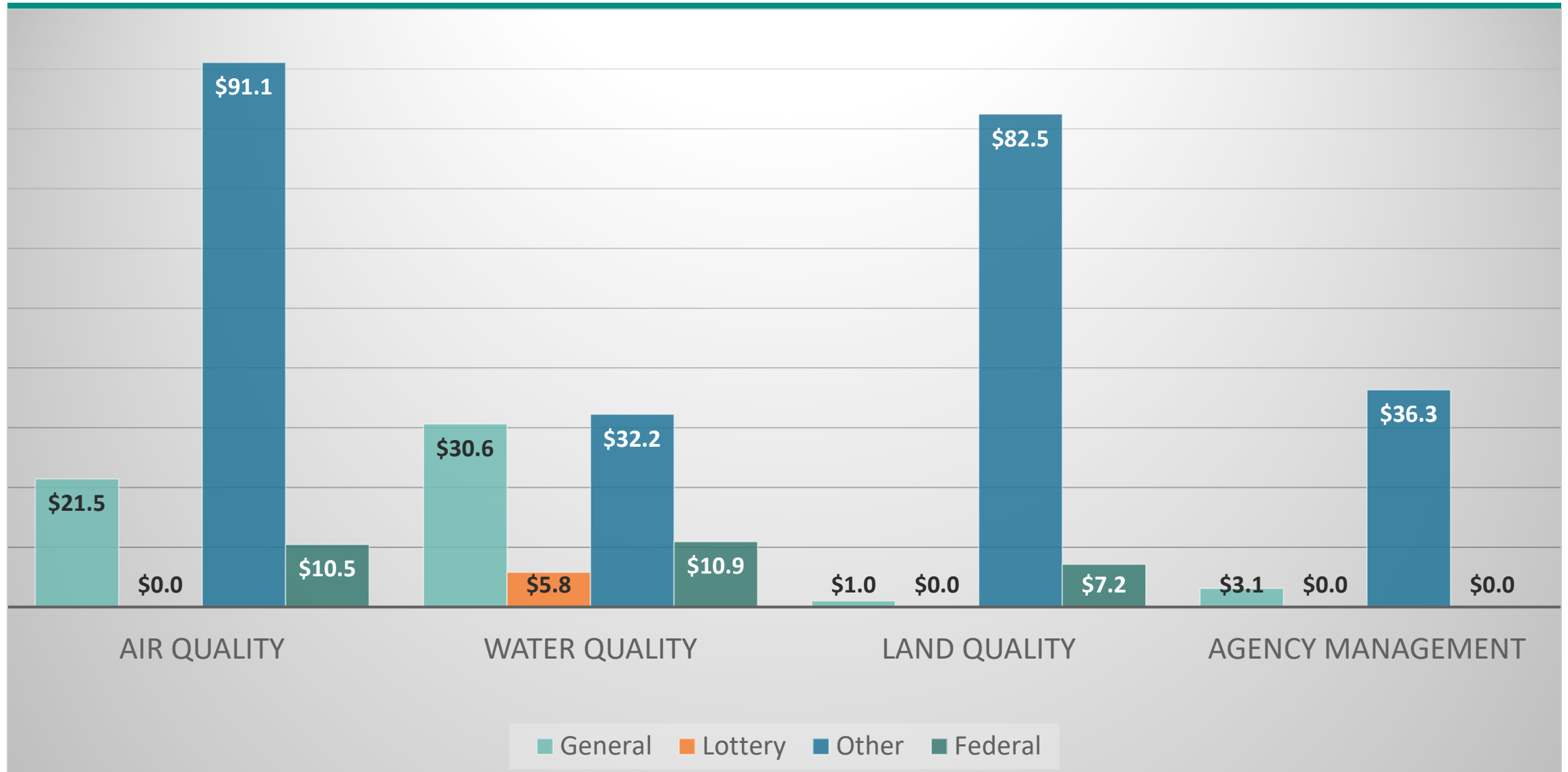
## Decision support tools

- Develop tools to identify environmental health burdens on communities
- Help agencies avoid adverse environmental health impacts to communities in policy development and program implementation

## Oregon's Environmental Justice Task Force awarded National Achievement in Environmental Justice Award

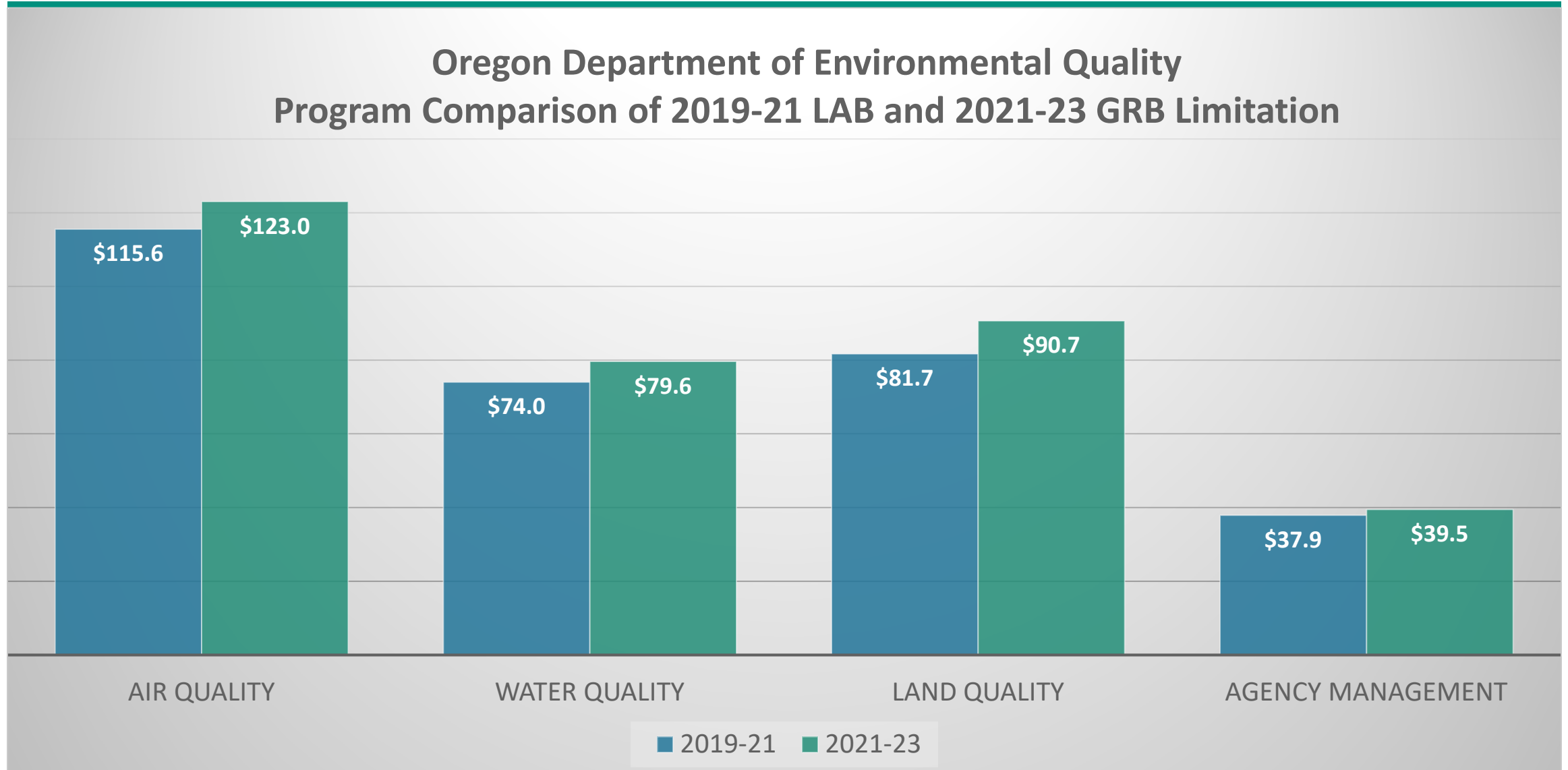
(Seattle – Dec 15, 2010) Today, EPA recognized five partnerships for their contributions to advancing environmental justice in communities. In Oregon, EPA is pleased to recognize the *Oregon Environmental Justice Task Force* for effective implementation of the State's environmental justice legislation and its ability to incorporate environmental justice considerations into State agencies' programs.

# DEQ Programs by Revenue Source (2021-23)



# Program Comparison (19-21) vs (21-23)

Oregon Department of Environmental Quality  
Program Comparison of 2019-21 LAB and 2021-23 GRB Limitation



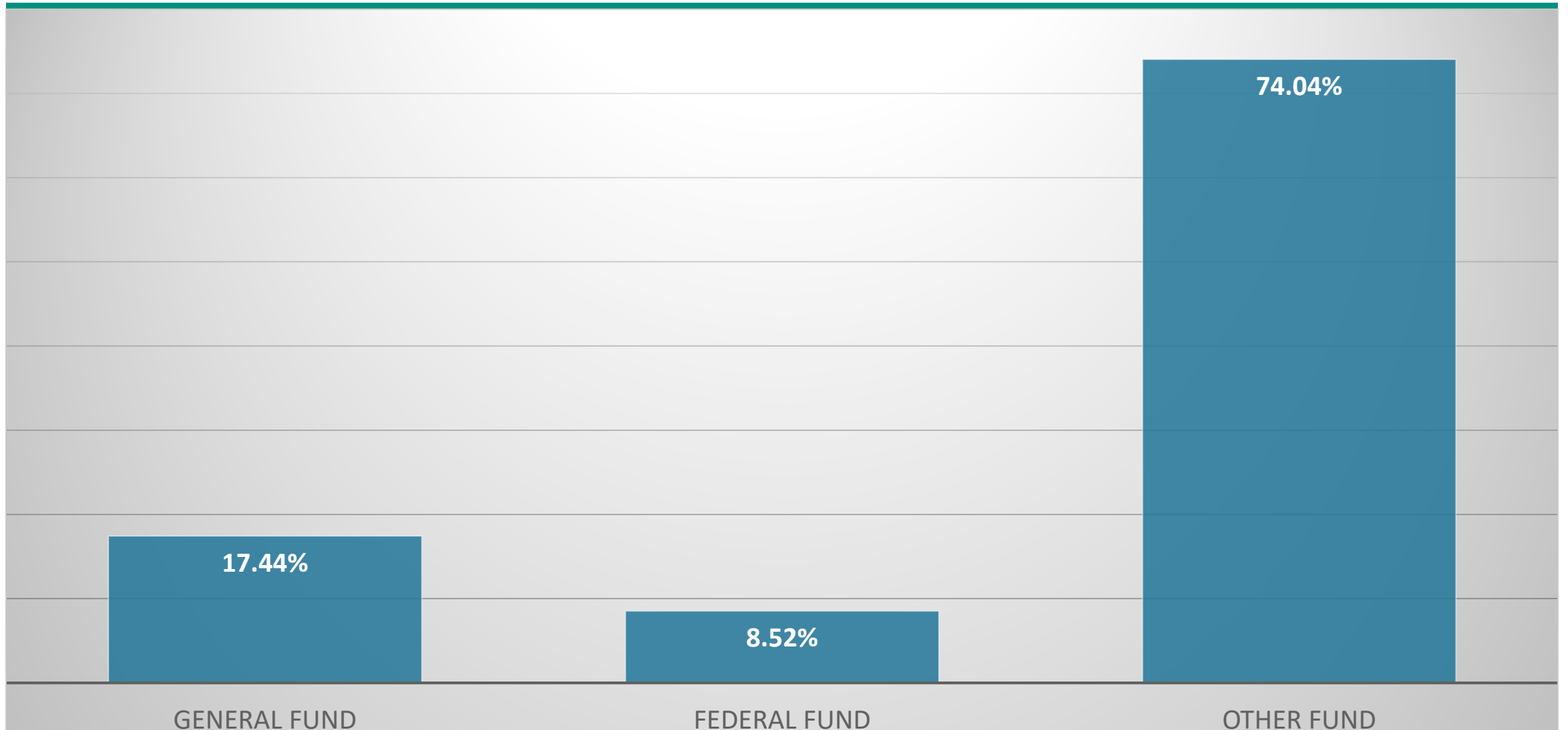




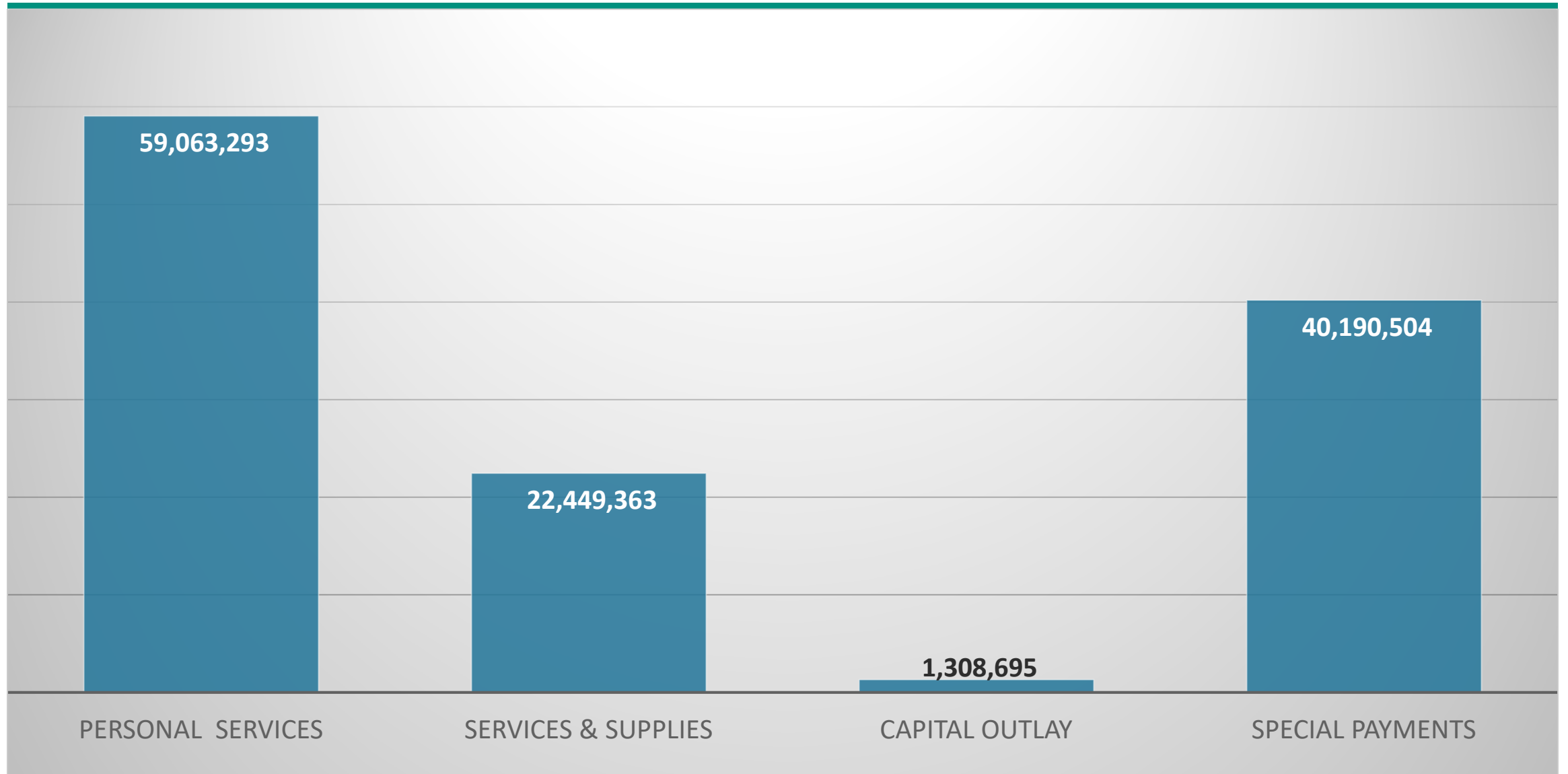
# Air Quality Division

- Policy and Planning
- Permitting & Inspections
- Monitoring/Data Analysis
- Vehicle Inspection
- Greenhouse Gas Programs

# Air Quality Budget Summary: \$123,011,855



# Air Quality 21-23 GRB Limitation by Category



# Air Quality Program - Policy Framework

- The primary focus of the program is on protecting public health
- The federal Clean Air Act is a primary driver, with national ambient standards and technology based standards
- Oregon focuses more recently on localized health impacts
- Wildfire smoke is a rapidly emerging threat

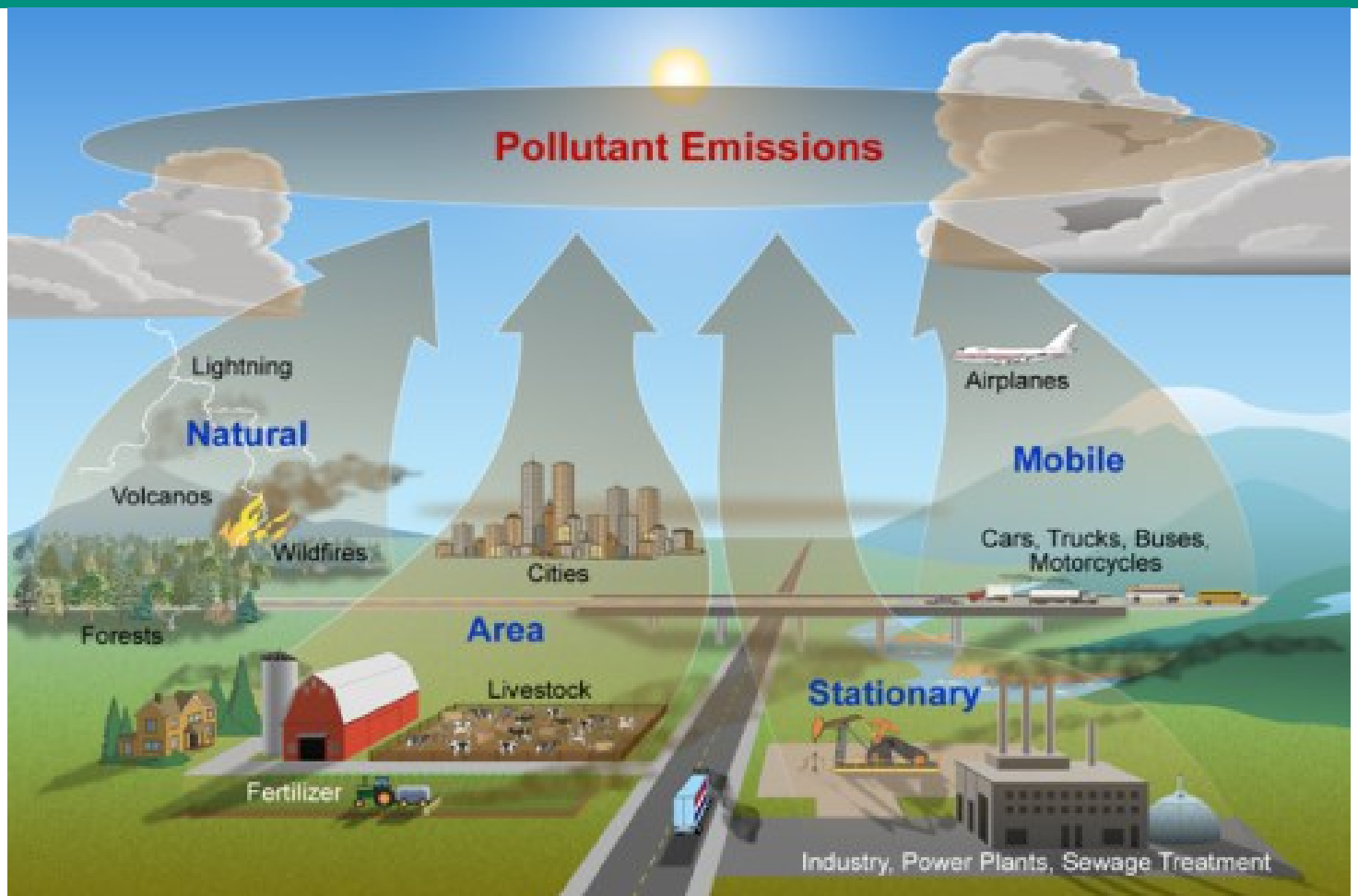
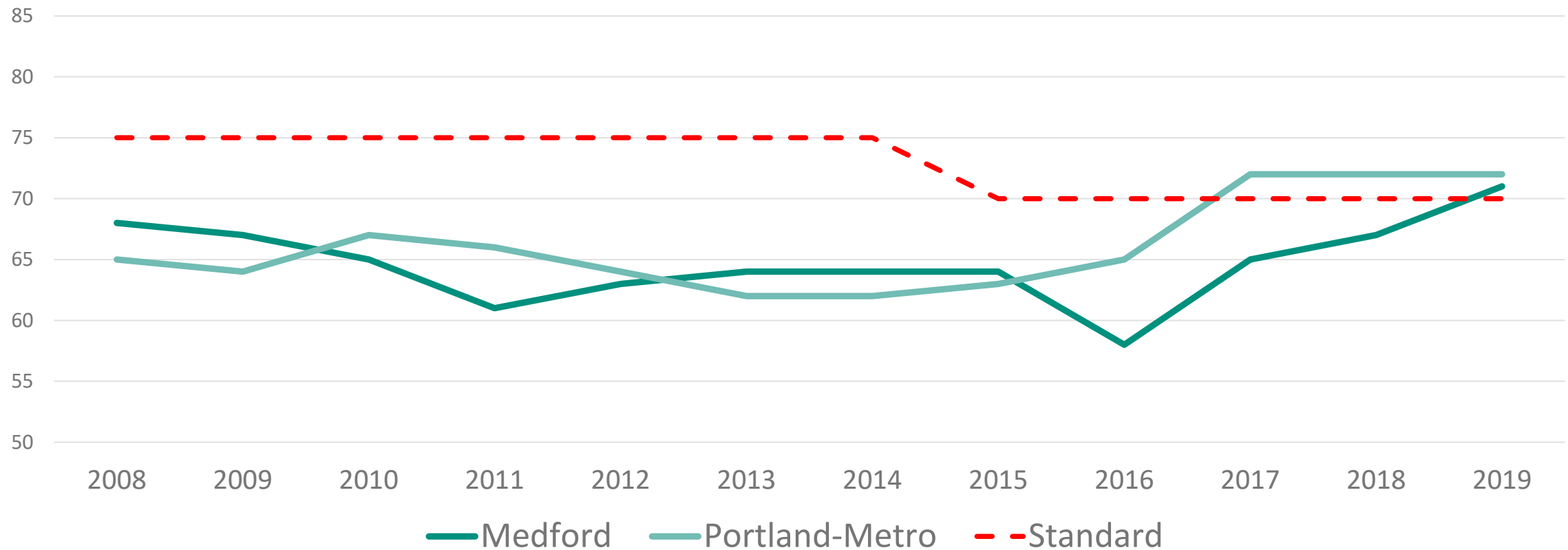


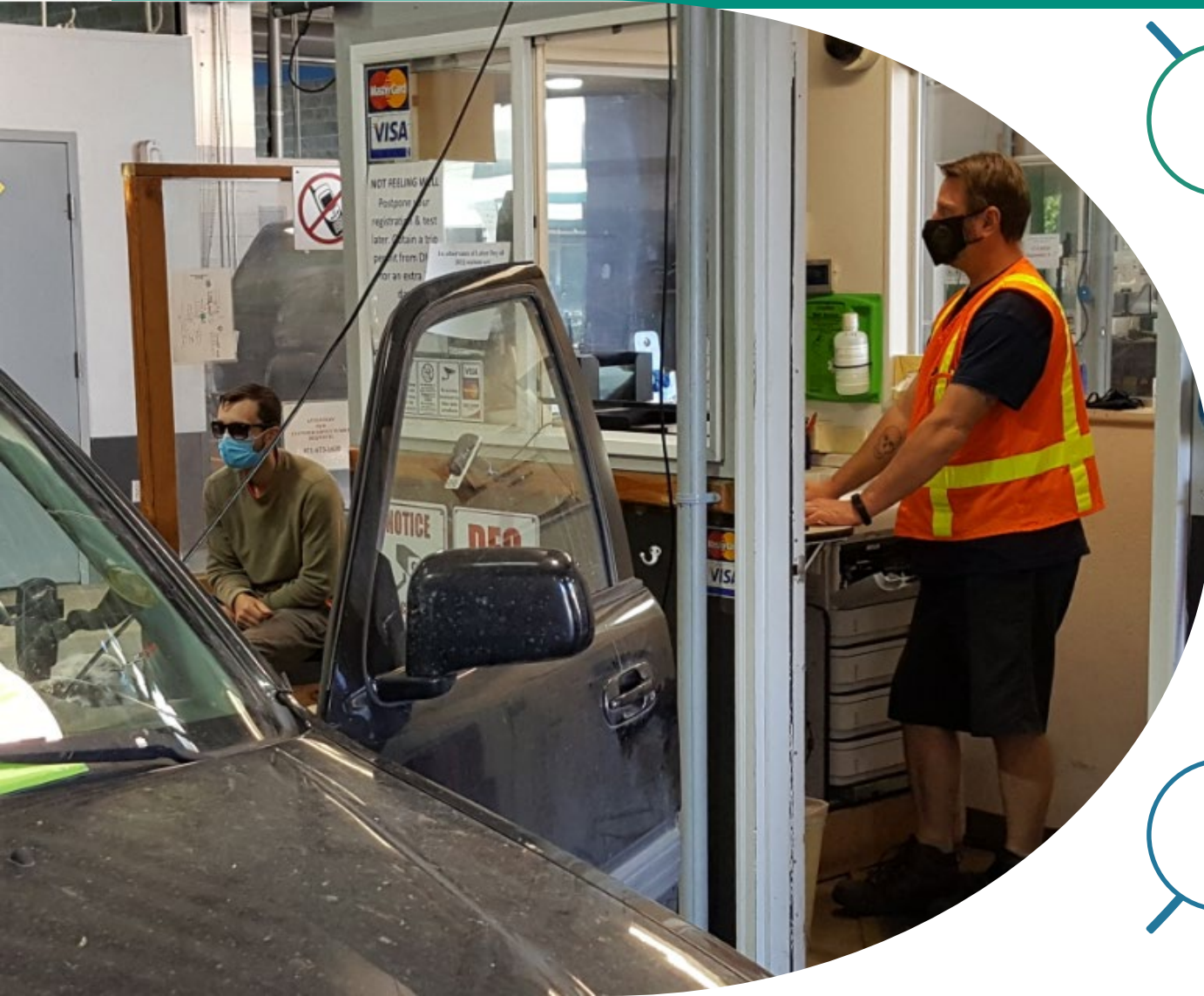
Image credit: National Park Service, 2017

# Transportation and Air Quality

## Ozone (Smog) Trends – Portland and Medford



# POP 110 – Vehicle Inspection Program



Reduces pollution from cars and trucks

Helps Oregon meet federal air quality standards

Requires **NO general fund** and is strongly supported by the public.

Reduces DMV workload

Restores 8 FTE

# VIP - Cost Effectiveness Evaluation

## Right model

- Centralized and public model means lower fees
- Leverages partnerships

## Lower Fees

- First increase in over 20 years
- Among the lowest fees in the nation
- Zero General Fund

## Better Services

- Unique menu of testing options
- Onsite DMV registration renewal
- Free retesting

# POP 113 – Funding for 2019 Clean Diesel Program



Implements heavy-duty diesel retrofit program

IT systems to ensure seamless registration and titling process for truck owners

Industry outreach and technical assistance

\$365,236 General Fund

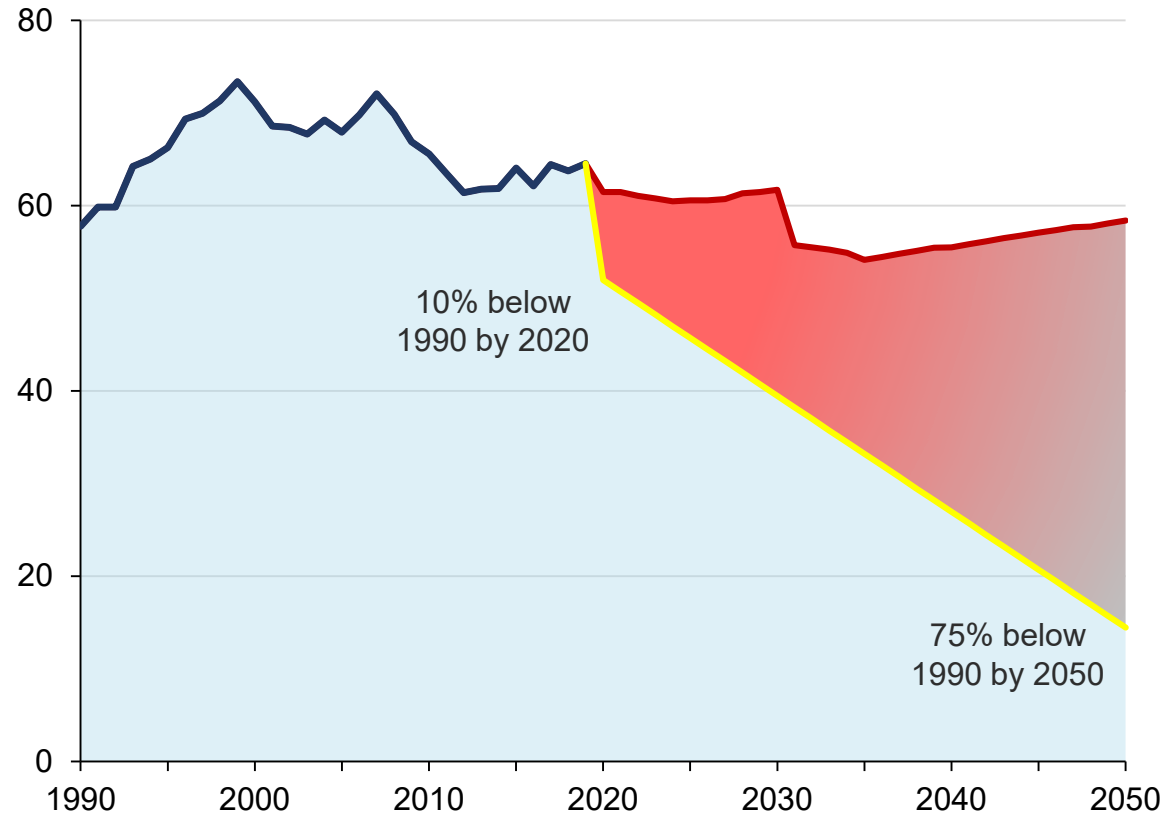
1 Position



# The Climate Crisis in Oregon

## Oregon Greenhouse Gas Emissions

Million Metric Tons of CO<sub>2</sub>e



### WILDFIRES

More frequent and intense



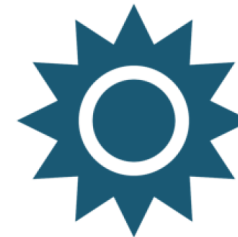
### SEA LEVEL RISE

Coastal flooding, impacting habitats and infrastructure



### DROUGHT AND HEAT

Stress the environment, human health, and wildlife



### REDUCED SNOWPACK

Water supply



# Climate Protection – How We Get to 2050

---

## Limit and then steadily lower emissions in 3 key sectors

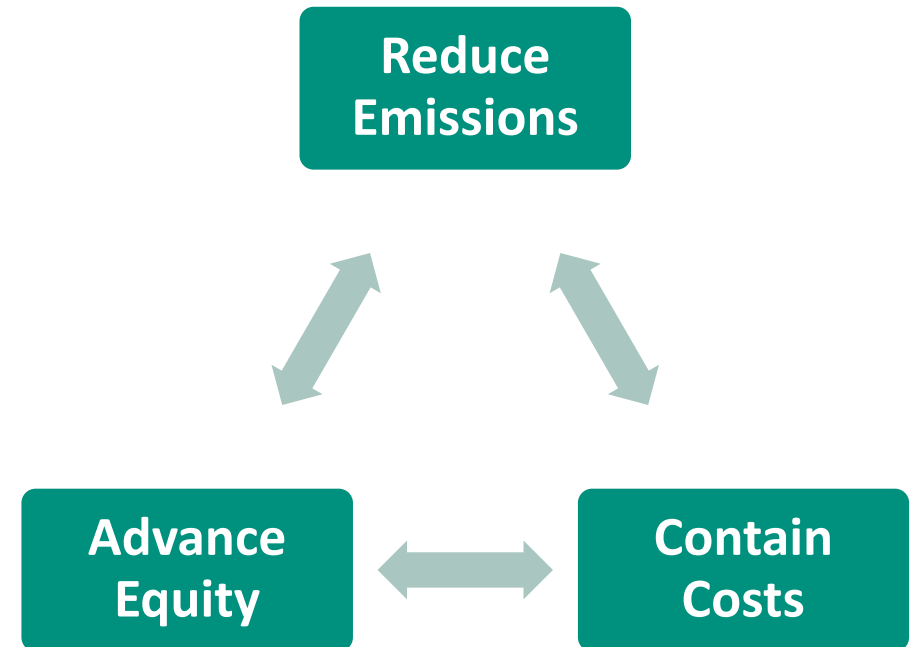
- Transportation fuels
- Natural gas and other fuels
- Large stationary sources

## Leverage existing efforts

- Vehicle standards and clean vehicle incentives
- Clean Fuels Program
- Renewable natural gas and clean technologies
- Reduce methane emissions (landfills)
- Clean electricity

## Transparent, inclusive policy-making

- Broad engagement from Oregonians across the state
- Outreach to and work with vulnerable communities
- Government to government consultation with Tribal Nations



# POP 111 – Climate Protection Program



POP will provide bridge funding for the Climate Protection Program

IT and program development costs

Ongoing community engagement

\$2 Million General Fund

# POP 114 – Asbestos Health Protection Program



POP will maintain current service levels

Impacted by wildfire recovery efforts

First fee increase in over 10 years

DEQ will work with stakeholders in rulemaking to determine specifics



# Land Quality Division

Environmental Clean Up

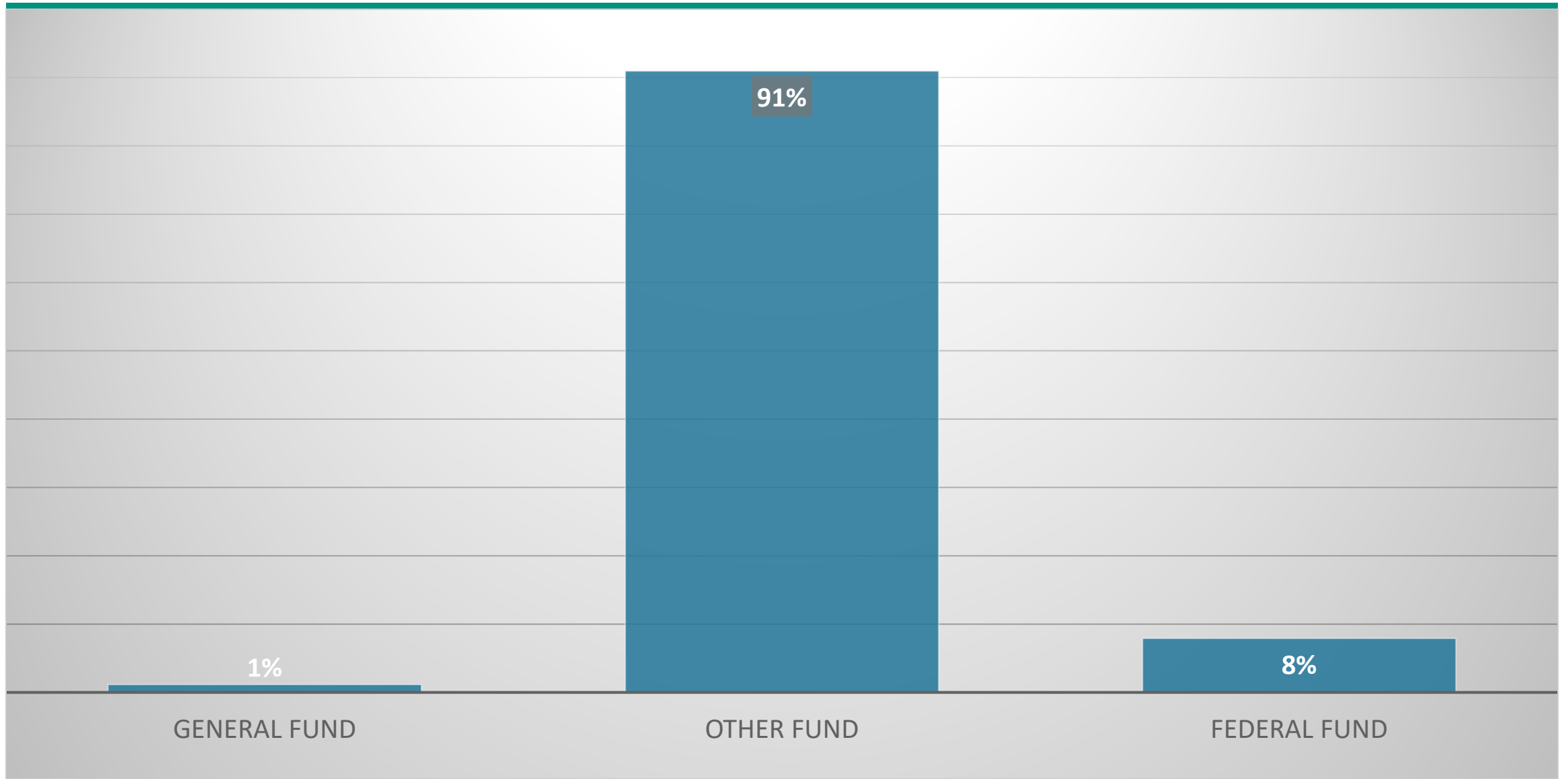
Hazardous Waste

Materials Management

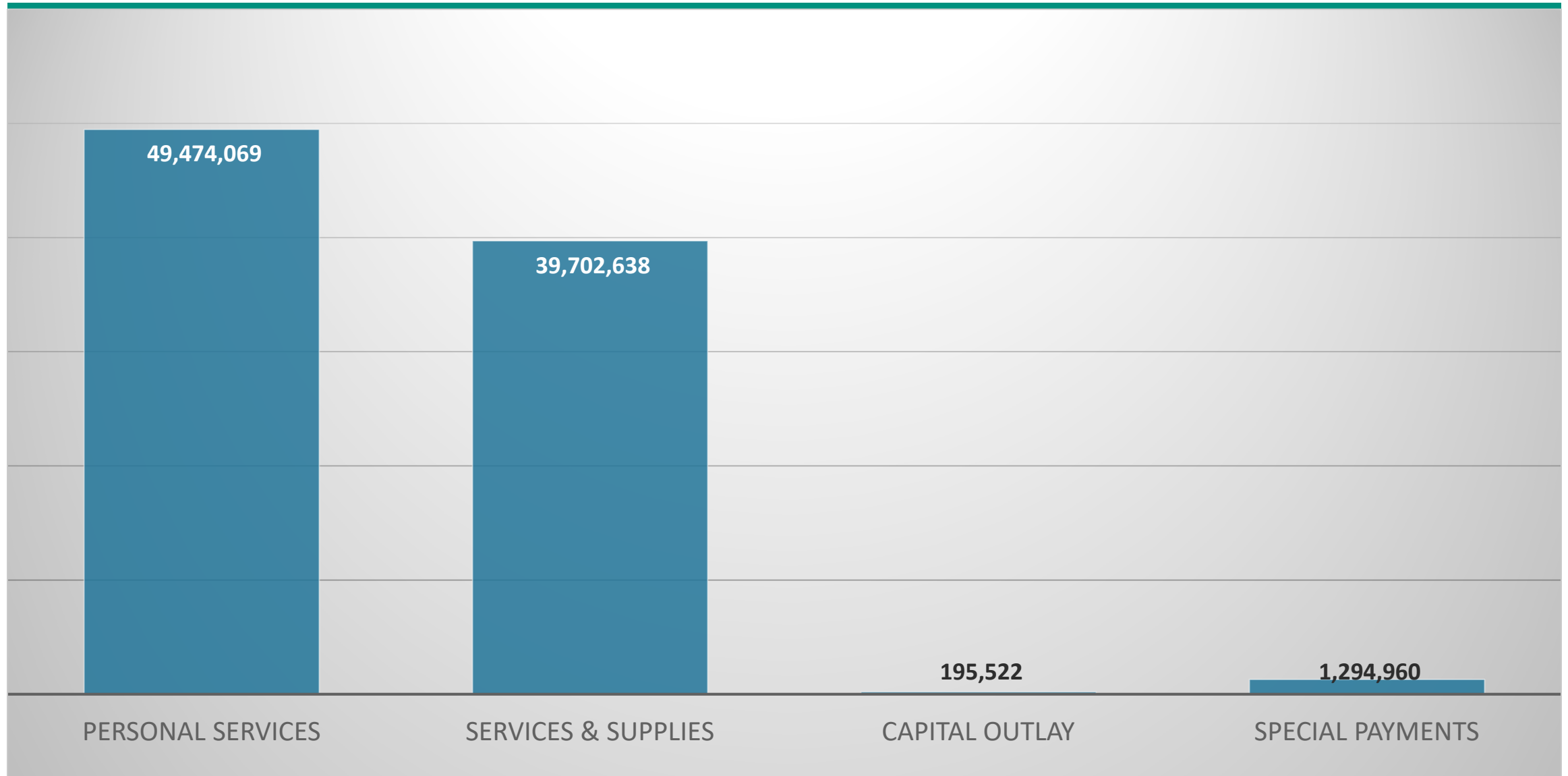
Emergency Response

Tanks

# Land Quality Budget Summary: \$90,667,189



# Land Quality 21-23 GRB Limitation by Category



# Environmental Cleanup Program - Portland Harbor



2000 EPA Lists Portland Harbor in the Superfund Program

2016 EPA Record of Decision

2016 Source Report/2020 Update

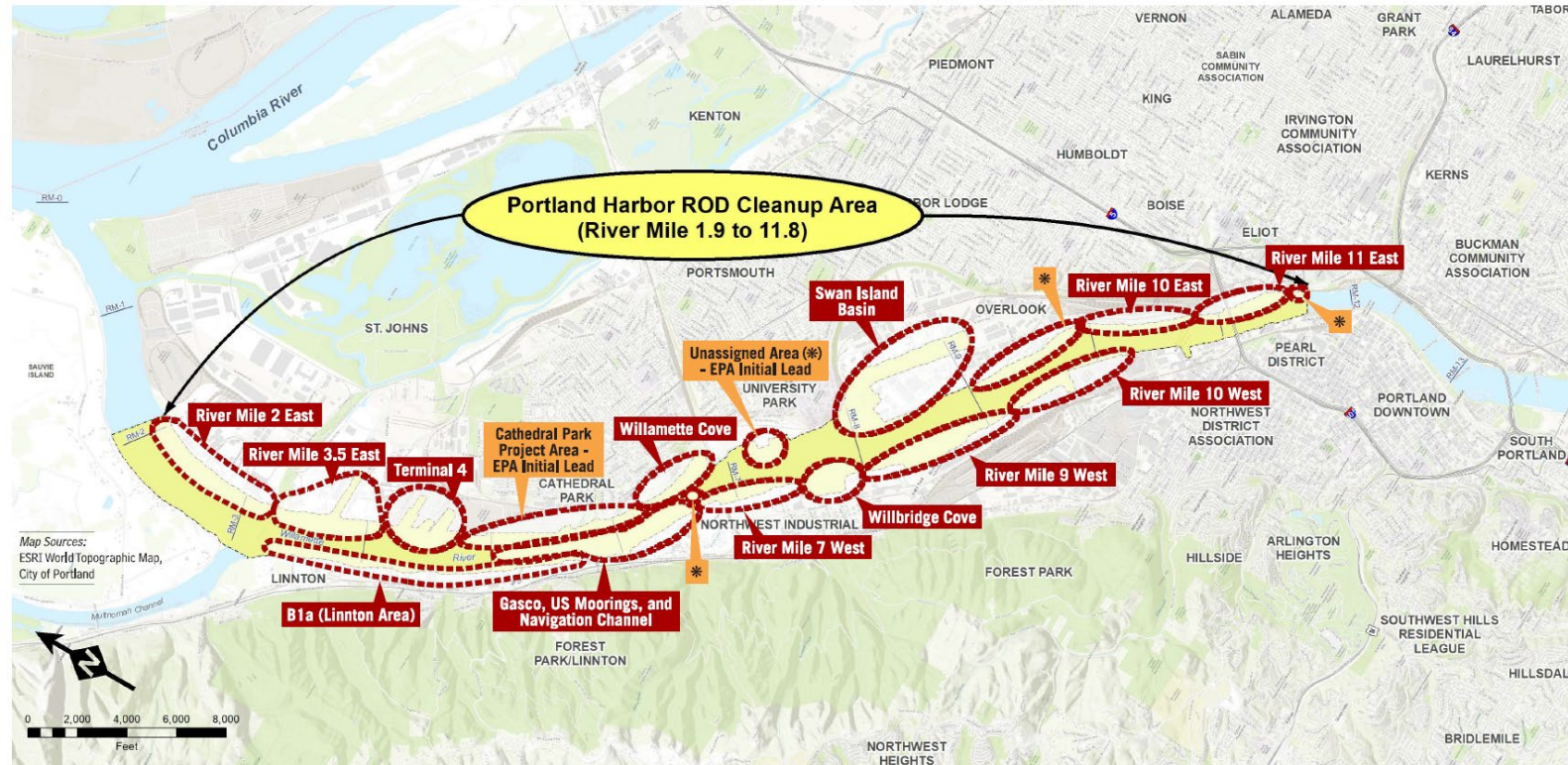
2021 Virtually All In-Water Sites in Final Design for Cleanup



# Portland Harbor: EPA and DEQ Coordination

## PORTLAND HARBOR SUPERFUND SITE UPDATES JANUARY 2021

**OVERVIEW** The in-river portion of the Portland Harbor Superfund Site spans about 10 miles of the Lower Willamette River in Portland, OR. EPA released a final cleanup plan (also called the Record of Decision or ROD) in January 2017 to address contamination in the sediment, surface water, and groundwater that poses an unacceptable risk to human health and the environment. All of the acres designated for active in-water remediation at the Site are now in remedial design. For project areas where EPA is listed as the initial lead, EPA continues to seek parties to sign up to perform remedial design of the remedy. This document provides a general project update.



Red outlines signify that working parties are conducting remedial design with EPA oversight. For unassigned areas and the Cathedral Park Project Area (labeled in orange), EPA is conducting the initial remedial design sampling. Please see reverse page for more information.

This shaded area indicates areas where only monitored natural recovery is planned to occur, per the Record of Decision.

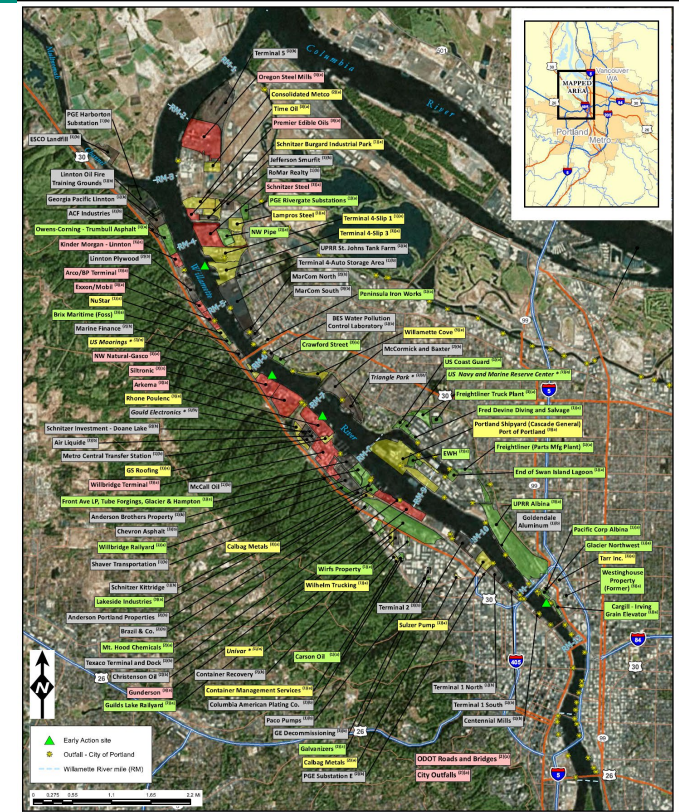
### QUESTIONS?

Please visit EPA's Portland Harbor website at [www.epa.gov/superfund/portland-harbor](http://www.epa.gov/superfund/portland-harbor)

Contact Laura Knudsen (EPA Community Involvement Coordinator) at [knudsen.laura@epa.gov](mailto:knudsen.laura@epa.gov) or 206-553-1838.

### WHAT ABOUT SOURCE CONTROL?

The term source control refers to controlling sources of contamination that are entering the Portland Harbor Superfund Site from upriver and lands along the river. The Oregon Department of Environmental Quality (DEQ) oversees source control and works closely with EPA. To date, DEQ has completed work on 104 of 175 sites identified as requiring source control within the study area and is currently actively working on 59 other sites. Visit DEQ's interactive source control map here: [www.oregon.gov/deq/FilterDocs/PortlandHarborMap.pdf](http://www.oregon.gov/deq/FilterDocs/PortlandHarborMap.pdf)



## PORTLAND HARBOR CLEANUP SITES

### Site source control priority

- High priority site
- Medium priority site
- Low priority site
- Source control efforts complete or not needed

### FOOTNOTES

- SOURCE CONTROL MEASURE STATUS**
- (1) - None
  - (2) - Source control measure in place
  - (3) - Interim source control measure in place
- SOURCE CONTROL EVALUATION STATUS**
- (a) - Source control evaluation in progress
  - (b) - Source control evaluation complete
- \* EPA-Led Site



Base imagery © 2019 from Esri, iStock, USDA, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
City of Portland outline from City of Portland Bureau of Environmental Services. Treated from Metro GIS.  
Map: O-SPS, Portland Harbor Remedial Action Plan (RAP) Overview Map, Jan 2021 v01



# POP 132/183 - Industrial Orphan Bond

Finance Industrial Orphan Site work for the next two biennia

\$10 million in General Obligation Pollution Control Bonds

\$300,000 bond issuance costs



# POP 134 – Solid Waste Orphan Sites

Authority to spend existing resources to make two limited duration positions permanent

Enables DEQ to better utilize existing funds to inventory, prioritize, and provide more cleanup oversight

\$531,768 Other Fund



# Hazardous Waste Program

Reducing hazardous waste generation, and ensuring its safe management



# POP 133 – Hazardous Waste Fees

Companion to SB 57A

Replacing tiered fees with a flat fee

Increases fee from \$2 to \$5 per ton

Allows the Environmental Quality Commission change fees



# Recycling Modernization

## Challenges

Breakdown of overseas markets

Increasing costs and less recycling

Inequities throughout the system

No assurance of responsible recycling

Producers lack a role



# Plastic Pollution and Recycling Modernization Act

## Solution

Balanced proposal

Shared responsibility – public & producers

Expand recycling access statewide

Reduce plastic pollution

Restore public confidence and participation



# POP 131 – Recycling Modernization

Companion to SB 582

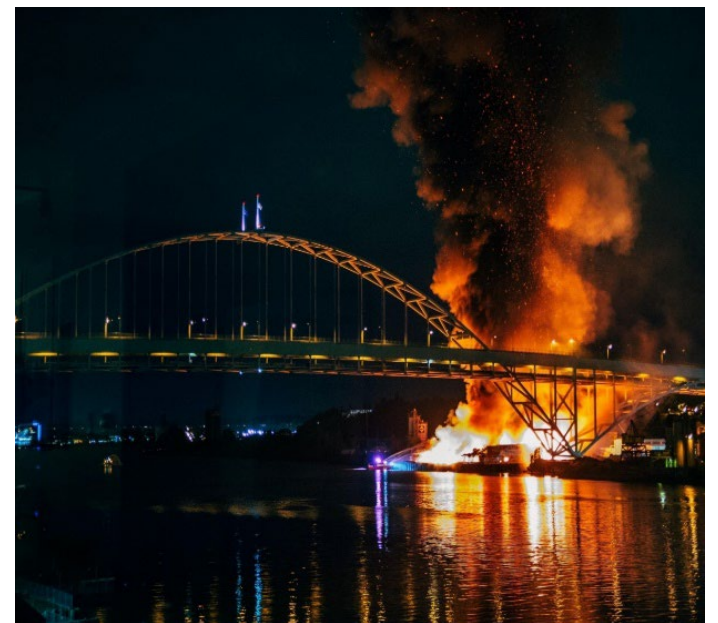
7 Positions

\$1.8 million Other Funds





# Emergency Response





# Water Quality Division

Standards (surface & groundwater)

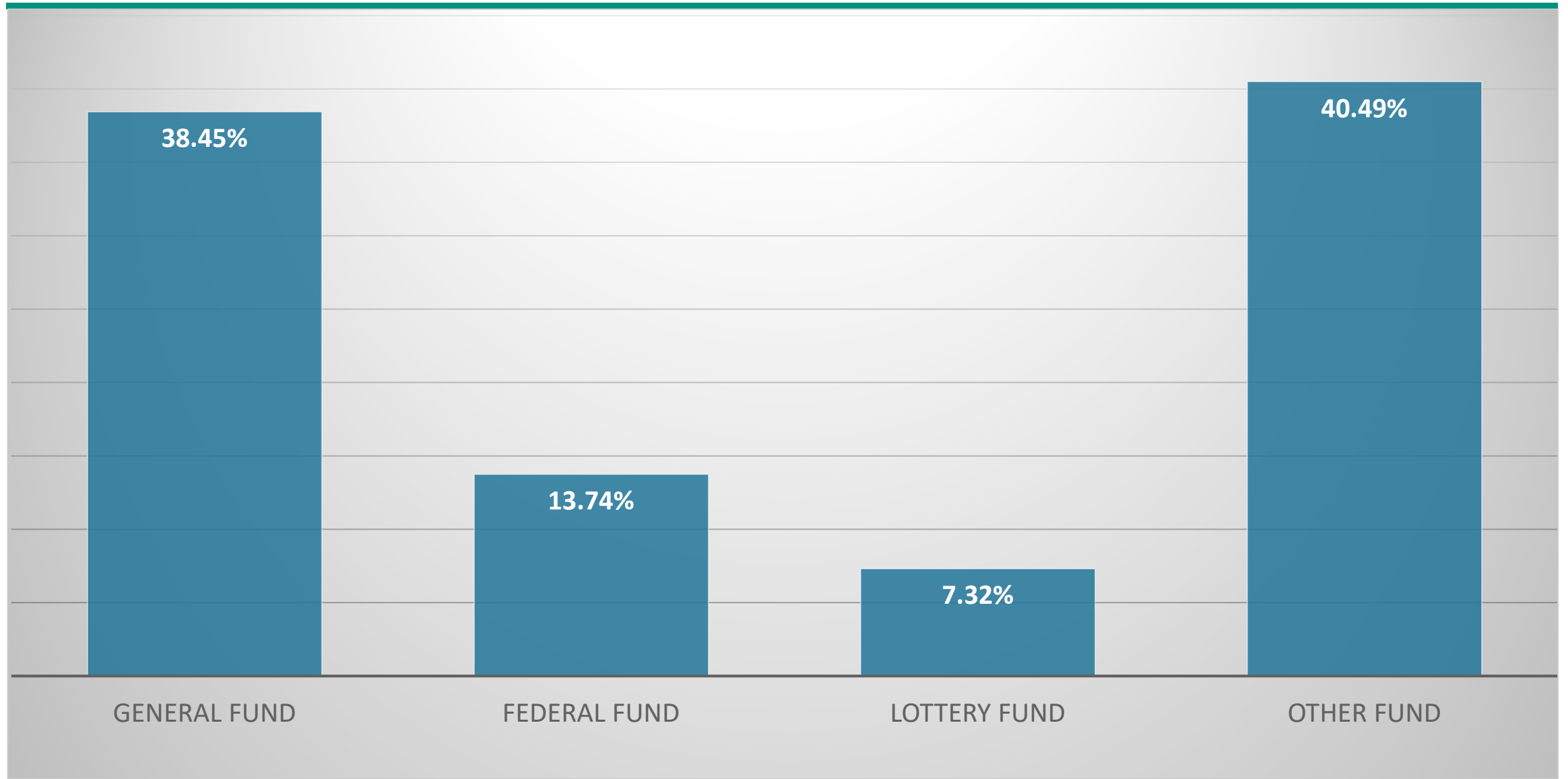
Monitoring/Assessment

Clean Water Plans/ TMDLs

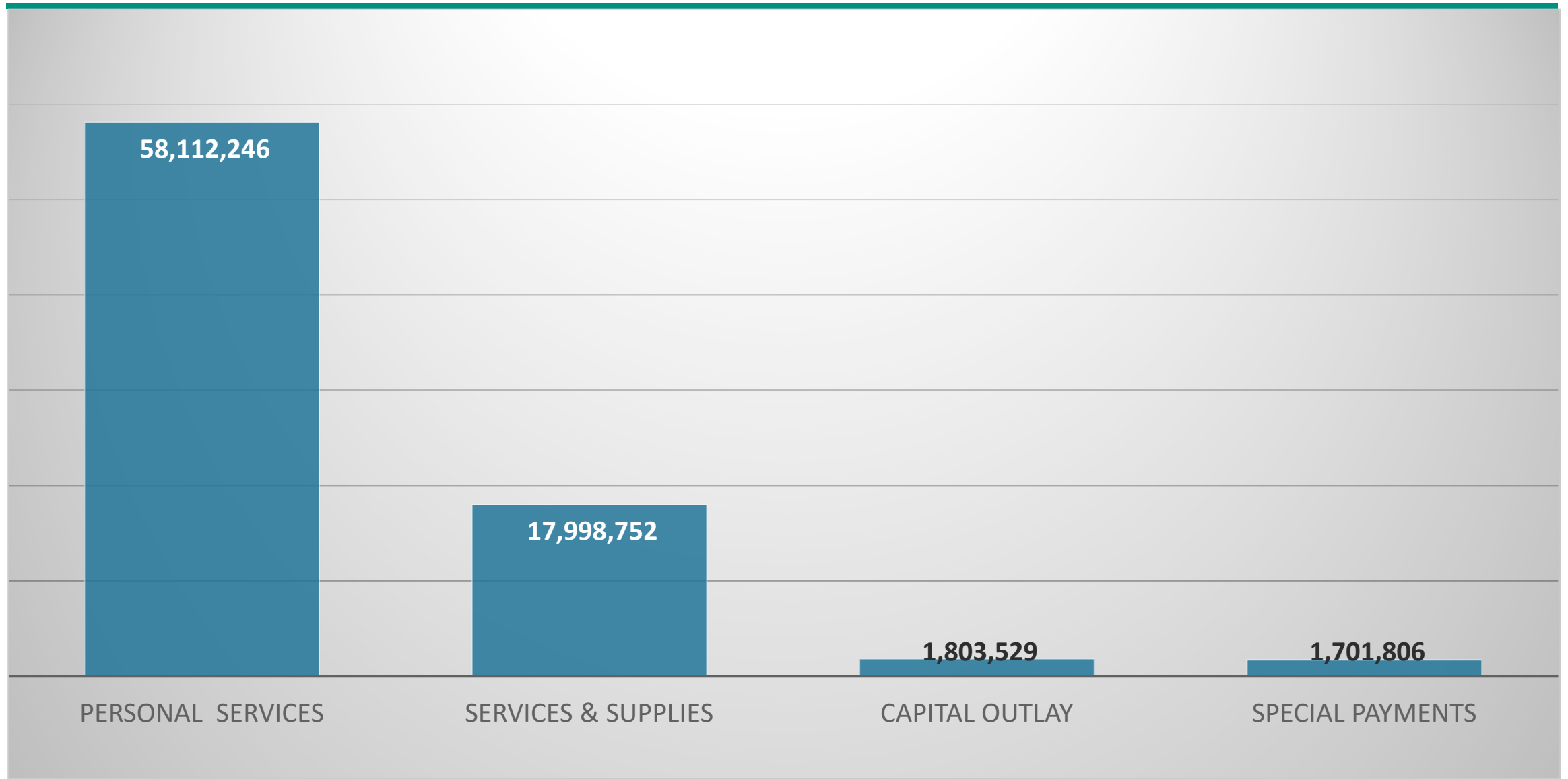
Permitting

Inspections/Compliance

# Water Quality Budget Summary: \$79,626,333



# Water Quality 21-23 GRB Limitation by Category



# Water Quality Programs

## Examples of DEQ's program work:

1. Stormwater construction
2. Integrated water resources planning
3. Nonpoint source
4. NPDES MS4 stormwater
5. NPDES industrial wastewater and stormwater
6. NPDES municipal wastewater
7. Underground injection control stormwater
8. TMDL – MOS: margin of safety; LA: load allocation; WLA: waste load allocation; NB: natural background
9. Recycled water
10. Biosolids
11. Industrial pretreatment wastewater treatment
12. 401 certification
13. Sewage and water conveyance
14. Beneficial uses
15. Water pollution control facilities
16. Onsite septic hauling
17. Onsite wastewater system permitting and regulation
18. Ambient monitoring



# DEQ/EPA Relationships



## Oversight

- NPDES permits
- WQ standards
- Impaired waters determinations
- TMDLs / Coastal NPS program

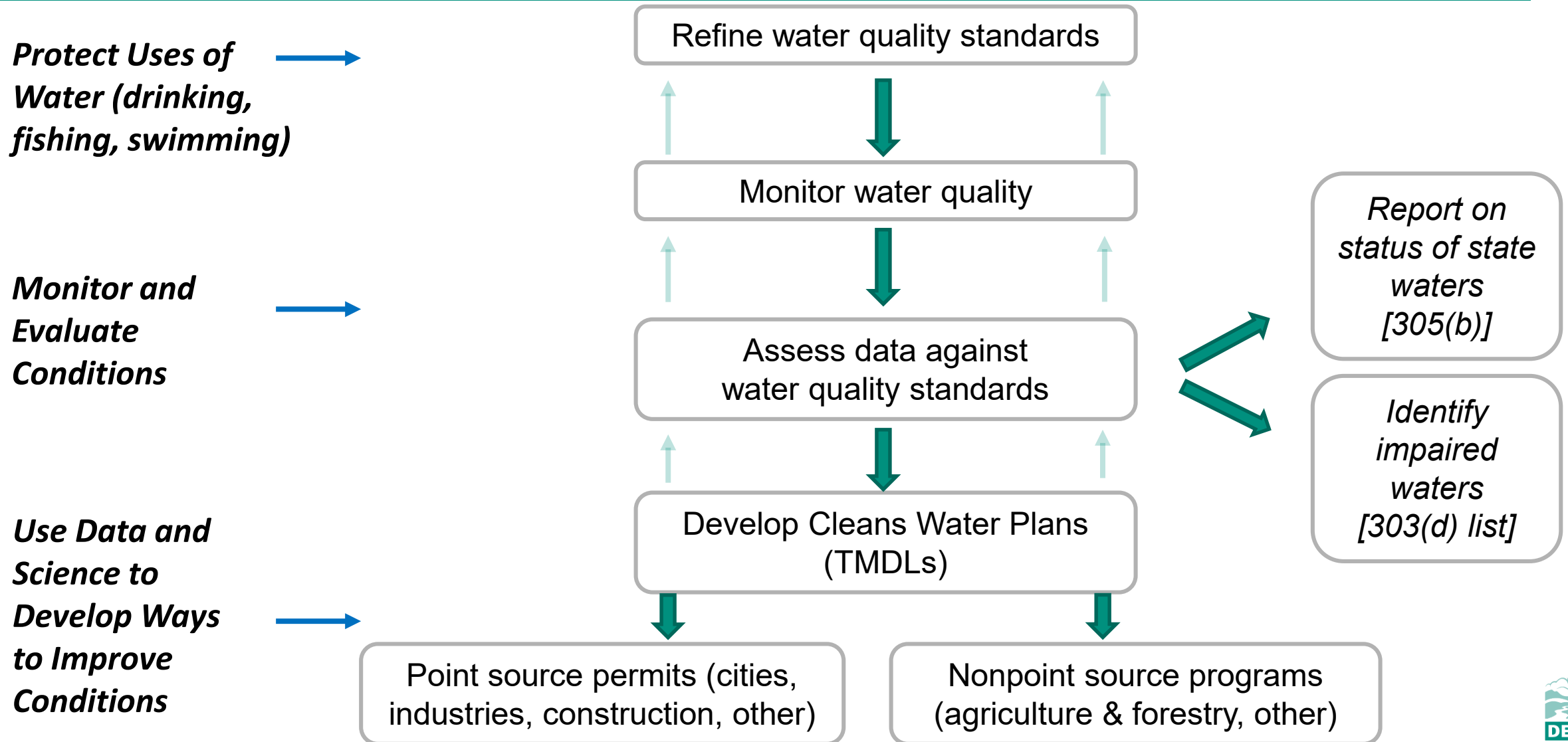
## Funding

- 106 Program grant
- 319 Nonpoint Source grant
- Clean Water State Revolving Loan Fund capitalization
- Contractor resources






## Support

- Technical assistance
- ESA consultations
- Compliance and enforcement collaboration

# Federal Clean Water Act Framework



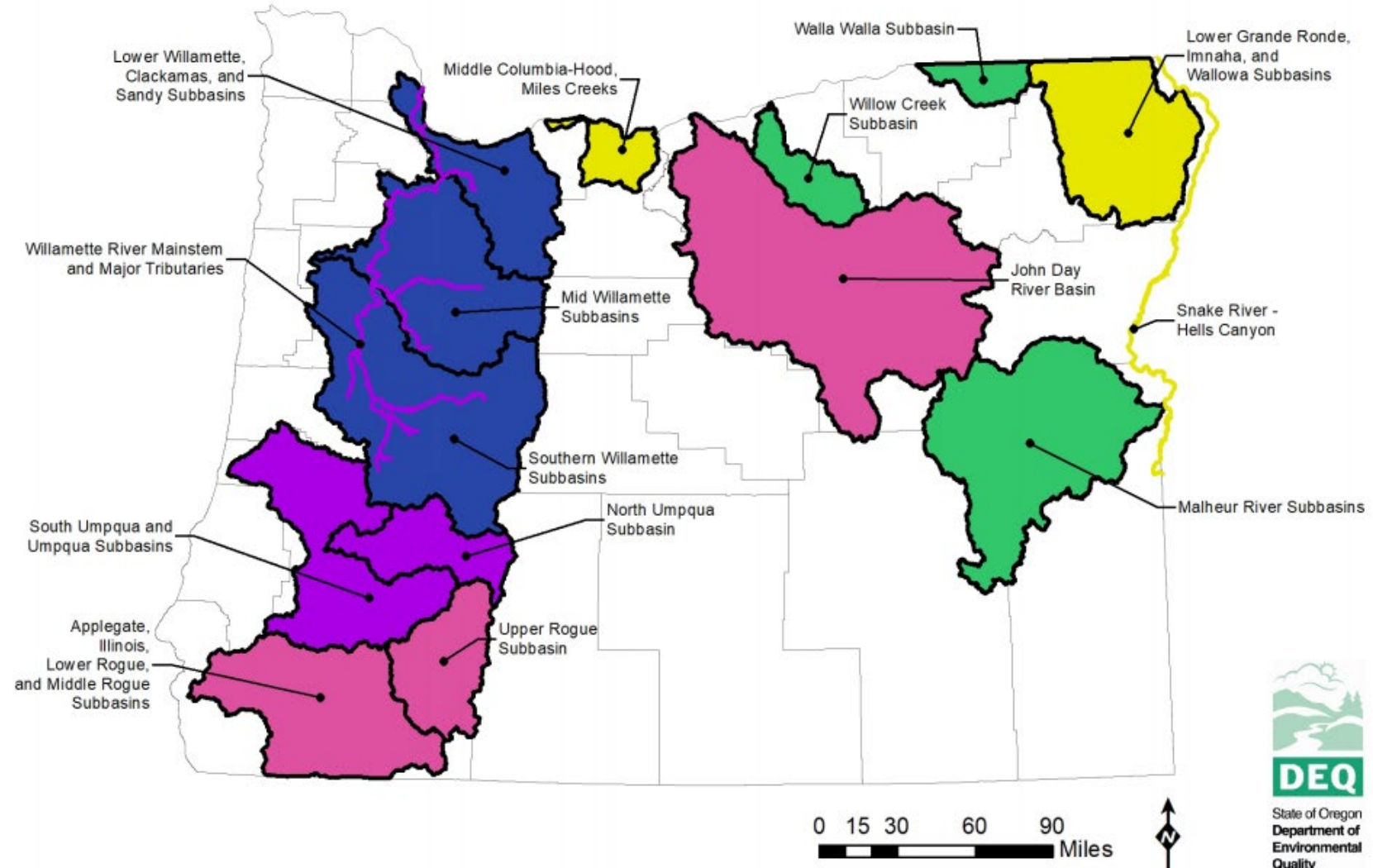
# Roles and Responsibilities for Clean Water

<b>Department of Environmental Quality</b> 	<b>Department of Agriculture</b> 	<b>Department of Forestry</b> 	<b>Watershed Enhancement Board</b> 	<b>Local Governments</b> 
<ul style="list-style-type: none"> <li>• Adopt standards to protect uses</li> <li>• Adopt plans to improve quality where standards are not met</li> <li>• Issue permits (muni, industrial, stormwater, onsite, land application, etc.) to meet technology-based standards, and (where water quality standards are not being met) to meet water quality based standards</li> <li>• Review and approve plans (forestry, agriculture, counties, districts) to reduce pollution and meet standards</li> </ul>	<ul style="list-style-type: none"> <li>• Implement Ag WQ Act (1010)</li> <li>• Implement TMDLs on farm lands</li> <li>• Regulate pesticide use</li> <li>• Regulate CAFOs (with DEQ)</li> <li>• Monitoring, evaluation, compliance and enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Implement Oregon’s Forest Practices Act</li> <li>• Implement TMDLs on forest lands</li> <li>• Monitoring, evaluation, compliance and enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Invest in watershed restoration and water quality improvement projects</li> <li>• Convene interagency monitoring efforts and invest in monitoring</li> <li>• Fund projects and initiatives that address legacy problems (“uplift”)</li> </ul>	<ul style="list-style-type: none"> <li>• Municipal wastewater and stormwater management to comply with DEQ-issued permits</li> <li>• Implement TMDLs on local roads and urban lands</li> <li>• Help fund watershed restoration projects and steward water resources through local programs and partnerships.</li> <li>• Local agents for DEQ</li> </ul>



# Clean Water Plans - Temperature

- Court order to complete 14 water quality management plans for temperature by 2027
- Work with ODA, ODF, OWEB and others to develop regulatory and non-regulatory means to lower temperatures to protect salmon



# POP 121 – Clean Water Plans (TMDLs)



Improve water quality in areas not meeting standards

Implement clean watershed plans known as TMDLs (Total Maximum Daily Loads).

\$531,072 General Fund

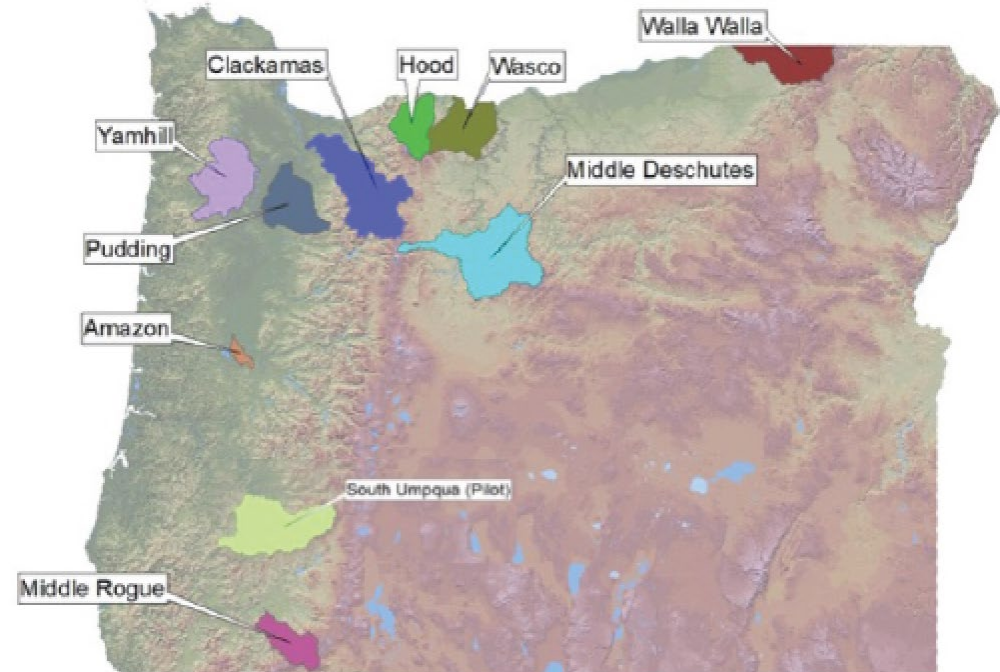
2 positions

# Partnerships and Interagency Coordination



## Examples:

- Harmful Algal Bloom Response
- Hydroelectric Program (WRD POP 105; HB 2143)
- Pesticide Stewardship Partnership



# POP 125 – Lottery Fund Restoration



Restore existing positions that were proposed for elimination due to earlier projections of lottery fund revenue shortfall

Positions provide critical support to non-point source pollution reduction efforts

\$1,543,776 Million Lottery Fund

5 Positions

# Clean Water State Revolving Loan Fund

- Supports low-cost community investments in wastewater treatment and other water quality improvement projects
- Financed over \$95 million in 2020



# POP 181/191 – Clean Water State Revolving Fund



Limitation increase to allow for receipt of federal capitalization grants and bond refinancing

\$30 million from federal capitalization grants

\$10 million in bond refinancing to provide 20% state match, a federal requirement

\$150,000 bond issuance costs

# POP 124 – Clean Water State Revolving Fund



One-time limitation to complete loan management software modernization

Procuring commercial off-the-shelf software

Funded from loan fund administrative fee revenue and administrative allowance from EPA loan capitalization grants

\$1,599,000 Other Fund



# Agency Management

Director's Office

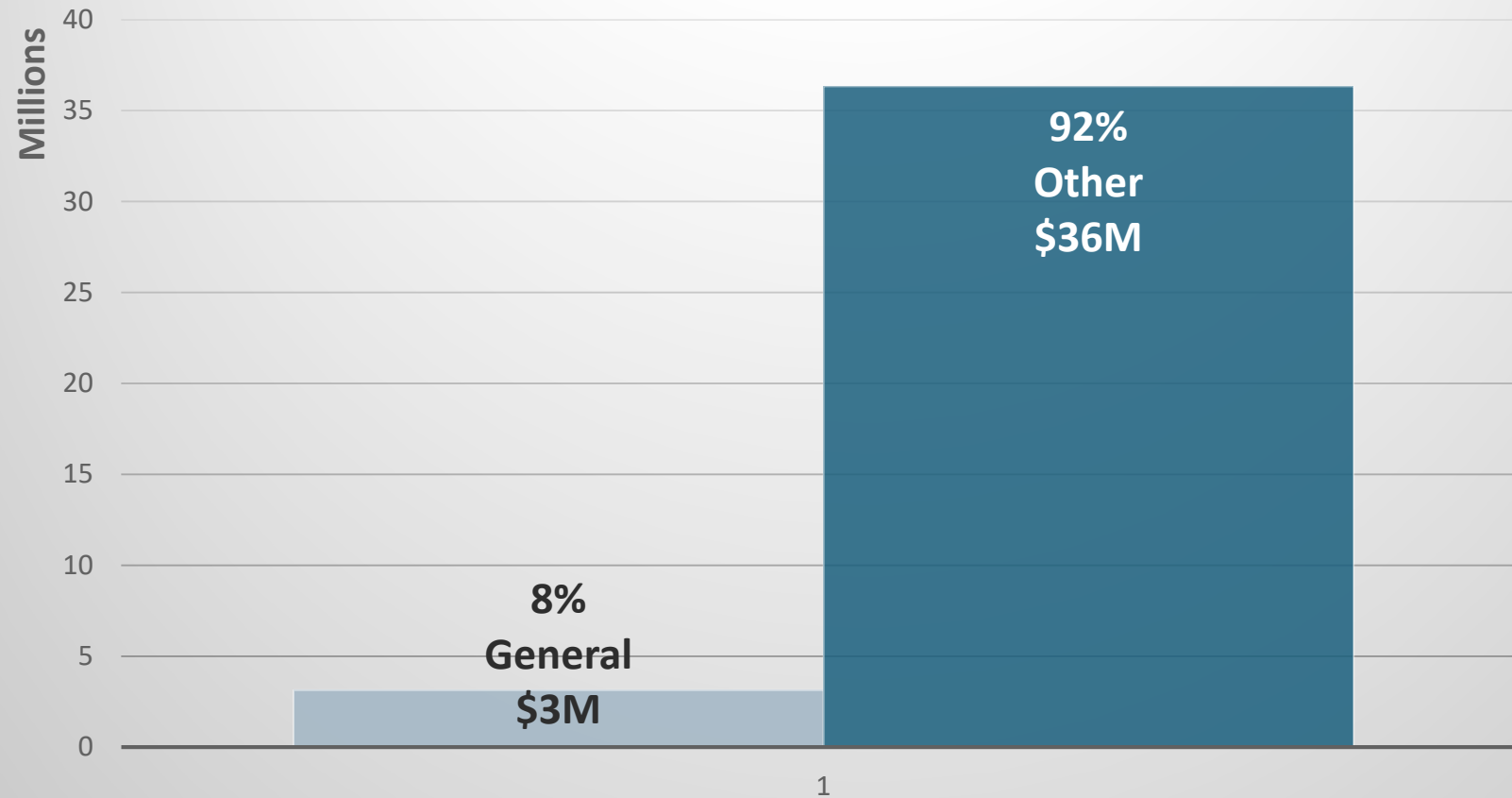
Information Technology

Budget & Financial Services

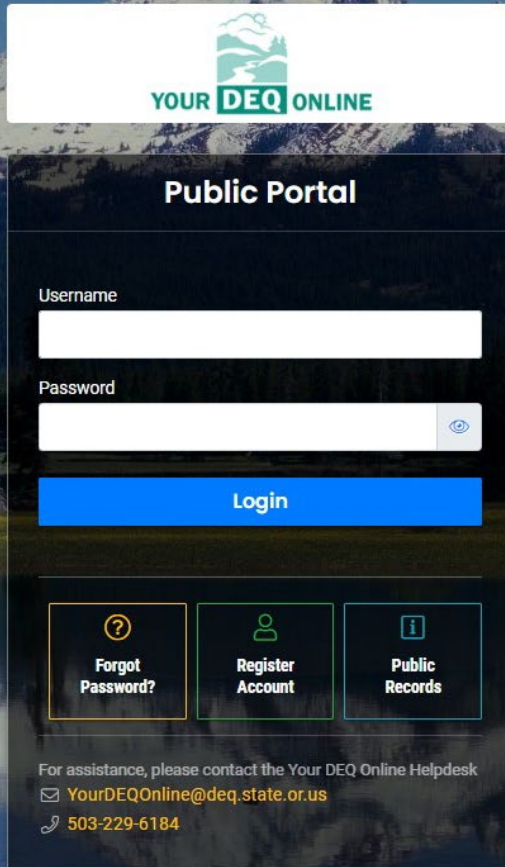
Human Resources



# Agency Management Budget Summary: \$39,470,133



# POP 141/SB 58- Environmental Data Management System



Enhance ability to manage data, reporting, and workflows

Increase agency efficiency

Business friendly/streamlined

System construction and testing underway

\$1.6 million Other Fund

# POP 143 – Agency Support Staffing



Investments in DEQ require additional support functions

IT, HR, Accounting

6 positions

Funded with agency indirect

# 2021 Proposed Legislation

Bill Number and Title	Fund Type/Cost
SB 57 – Hazardous Waste Fee Increase	Other Fund
SB 58 – Environmental Data Management System Surcharge	Other Fund
SB 582-1 – Plastic Pollution and Recycling System Modernization	Other Fund
SB 5517 – Fee ratification for Vehicle Inspection Program	Ratifies fee approved by EQC in May 2020

# Questions?

