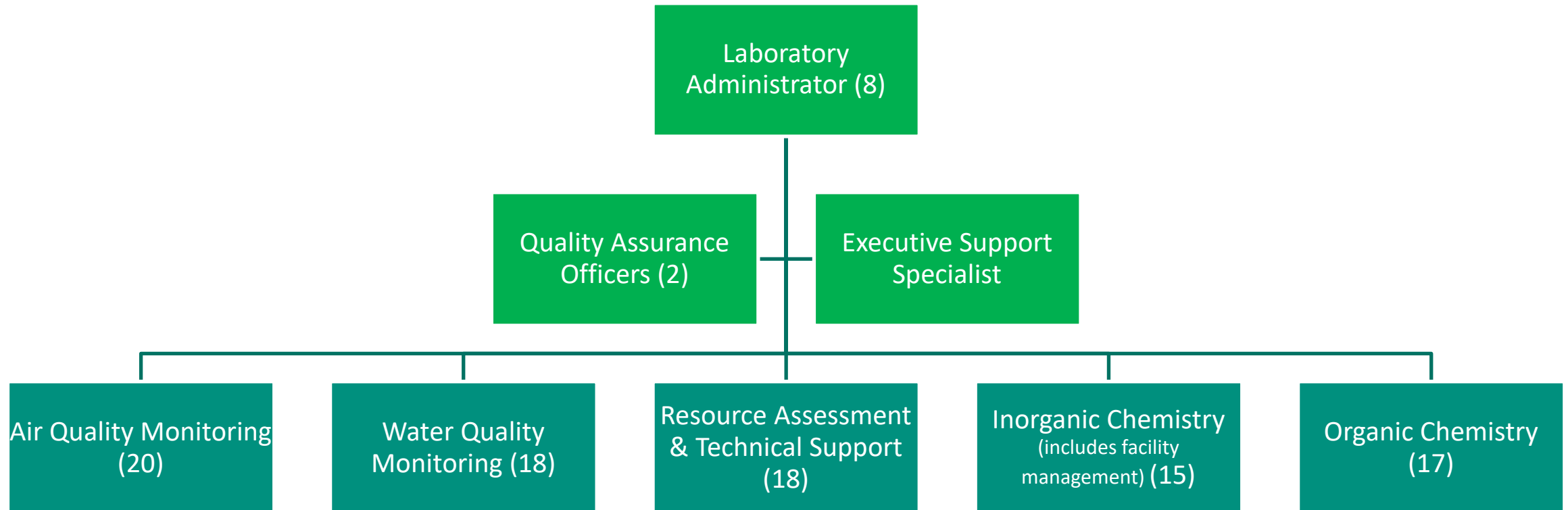


Laboratory Resources

DEQ Laboratory & Environmental Assessment Division

February 7, 2022
Joint Committee on Ways and Means
Natural Resources Sub-committee

Laboratory Organizational Chart



Collecting Data for Environmental Outcomes

Our Core Work – Monitoring the environment over time

Water Quality

- Status & Trends Monitoring
 - Ambient Rivers & Streams
 - Oregon Water Quality Index
 - WQ Toxics monitoring
 - Biomonitoring
 - TMDL development / implementation
- Human Health / Vulnerable Communities
 - Statewide Groundwater Monitoring
 - BEACH monitoring



Air Quality

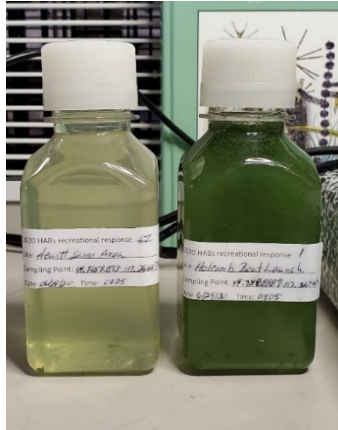
- Status & Trends Monitoring
 - National Air Toxics Trends Sites (NATTS)
 - AQ KPM
 - PM2.5 / Criteria pollutant sites
 - AQI
- Human Health / Vulnerable Communities
 - Air Toxics Assessments
 - SensOR

Collecting Data for Environmental Outcomes

Responding to Changing Conditions



Lake Billy Chinook, July 2020
Source: Oregon Health Authority



Sample from Brownlee Reservoir, OR
6/29/2020, DEQ



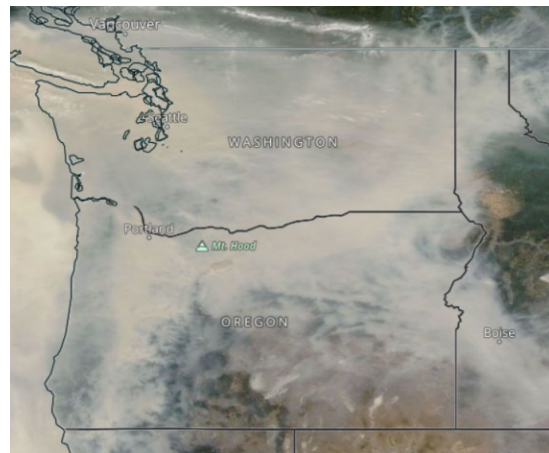
PFAS extraction, DEQ

Water Quality

- Increased HABS monitoring
- Wildfire Response Monitoring
- Developing PFAS capabilities

Air Quality

- Expansion of SensOR network
- Community science focus
- Forecast & prediction



September 12, 2020

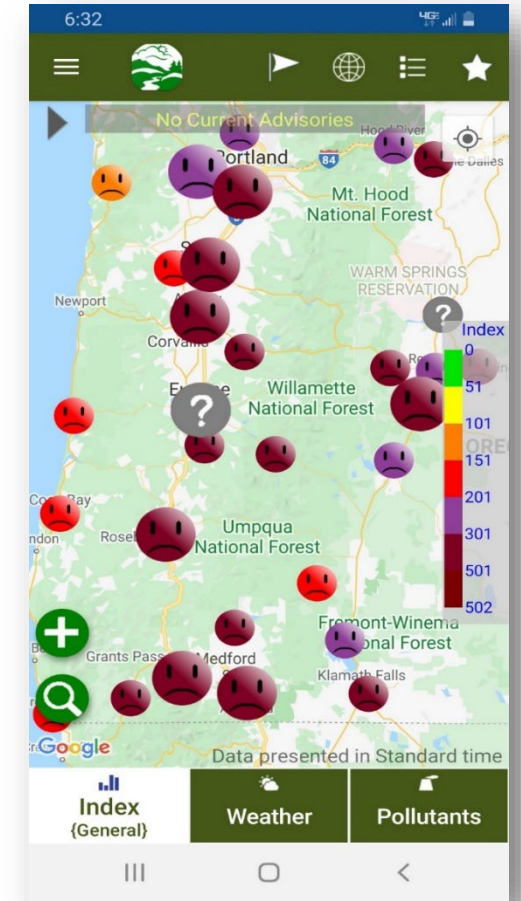
August 13, 2020	
AQI Category	Value
Good	37

September 12, 2020	
Category	Value
Hazardous	438

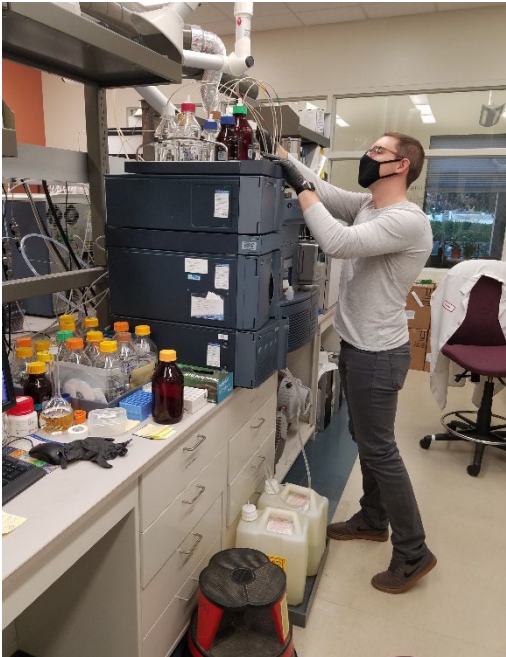
Site: Eugene Hwy 99
Source: DEQ

Additional Activities

- QA and final technical review for data
 - 12,000 samples in 2021
- Facilities Management
 - 40,000 square foot facility
 - Large systems, building wide issues (coordination with OHA)
- Contract management
 - Large purchasing & IT contracts managed by staff & managers
 - Interagency agreements for services
 - Federal grants
- Data management and public data systems
 - AWQMS
 - AQI
 - Volunteer, 3rd party and continuous data processed & managed



Current Needs



- **Laboratory Facility & Operations Manager – Permanent - \$217,000**
 - Manage facilities / IT / Admin / purchasing / building issues
- **Additional Capital / S&S Funding - \$300,000**
 - Replace aging instrumentation
 - Maintain existing functionality in areas such as toxics (AQ & WQ), groundwater, etc
 - Redundancy / Reliability
 - Add redundancy to critical analytical services
 - Facilities Improvements / Sustainability
 - Newer systems = reduced impact
 - Improvements / repairs to sample storage, hood systems
 - Information Technology
 - High demand on systems = move to the Cloud
 - Increased yearly costs
 - Inflation / increased costs in supplies
 - Affects on supply / cost increases for common lab supplies