

Water Quality Assessment Program

Ensuring High Quality Data for Oregon's Integrated Report

December 6, 2017

Oregon DEQ HQ

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email deqinfo@deq.state.or.us.

Slide Title

Information about this topic

Basic rules for presentations:

Style guide, graphic standards, plain language are applicable here. Stick to Arial (large enough to project clearly on a screen) for your font.

Also, contrast tends to disappear in a projector: make sure that your text and other elements are clearly dark on light or light on dark.

DEQ IR Data Quality Requirements

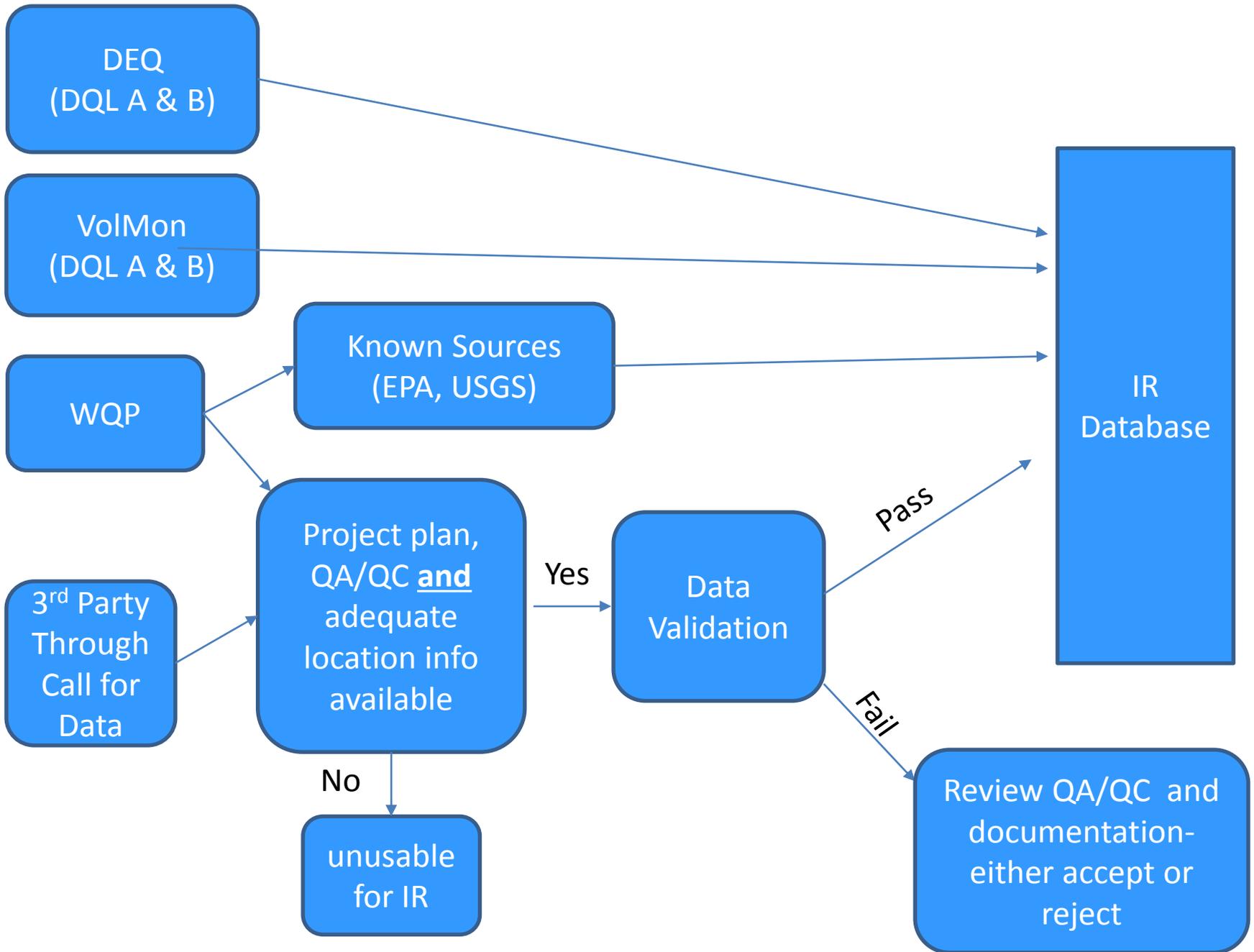
- **Must have a Project Plan** - A document that includes a purpose statement, the number of samples collected and quality assurance and quality control protocols for collecting and analyzing samples.
- **Use widely Approved Methods** - Sampling and laboratory analysis must follow widely accepted scientific methods and protocols. These may include ODEQ-MOMs, USEPA, USGS and Standard Methods for the Examination of Water and Wastewater. **All acceptable methods must include applicable precision and accuracy checks (QA/QC).**
- Organizations submitting data to DEQ must sign a verification form confirming that these requirements are fulfilled.

Data Submission Requirements

- Must be collected within Oregon's borders
- Collected within the specified sampling window
 - 10 year window for the 2018 IR (2007 to 2017)
 - sample date must be included for each result
- Must be related to a specific location
 - Include site location metadata
 - Location of each monitoring station in latitude and longitude - ideally with the associated reference datum (example – NAD83)
 - Description of the monitoring location that includes the waterbody name

Data Sources for the IR

- Data analyzed and reviewed by the DEQ laboratory with a data quality level of A or B
- Data submitted to DEQ through the Volunteer Monitoring Program with a data quality level of A or B
- Publically accessible data
 - Data pull from the Water Quality Portal (EPA, USGS, Tribes, USDA)
- Data submitted through the call for data
 - Numeric data must be submitted in electronic format using DEQ provided templates
 - Non-numeric data must be related to a specific location



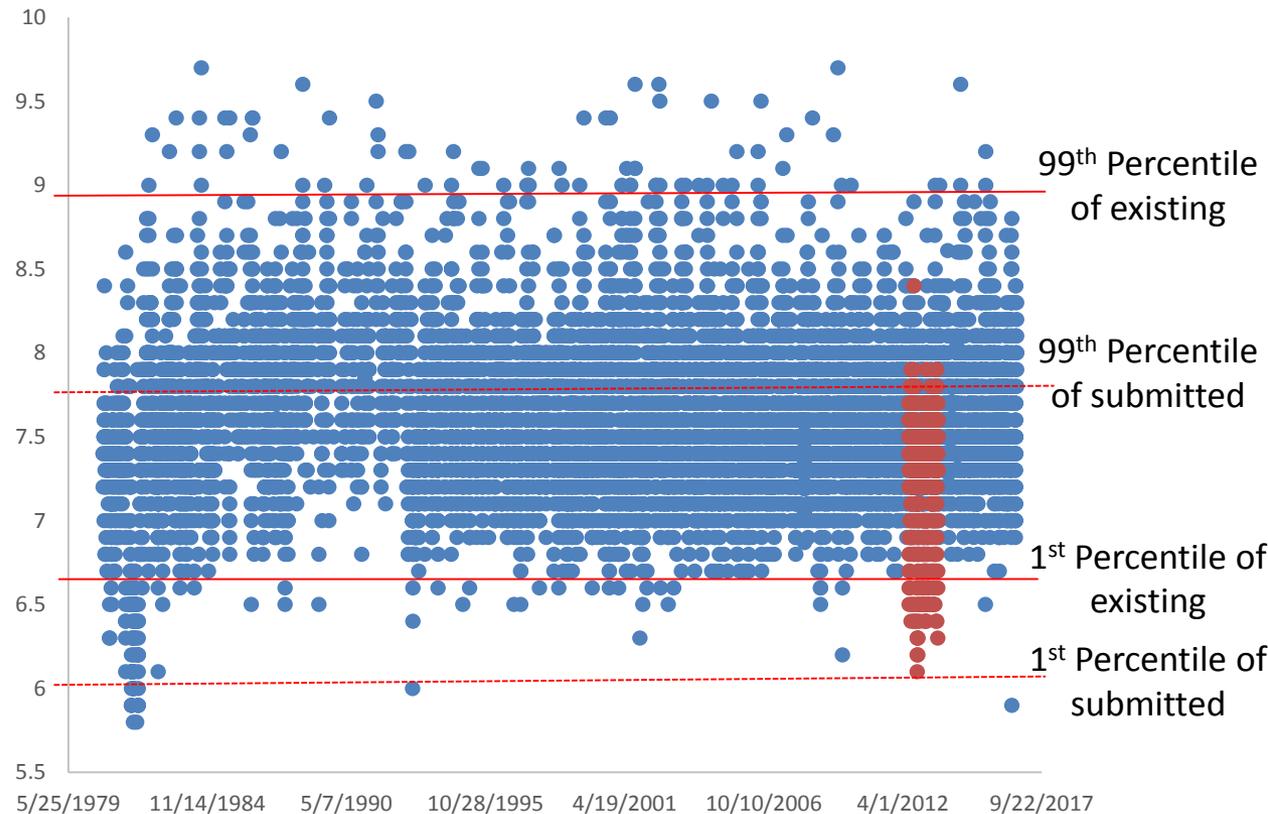
Third Party Data Validation

Example for pH data

Data Screen

comparing 3rd party data to existing data from the region

- Review data above the 99th or below 1st percentile of existing data
- Review data above the 99th or below 1st percentile of the submitted data set



Review Assessment Conclusions and Underlying Data

- Step 1 – Detailed review of all impaired waters designation
 - Double check data that led to an impairment
 - Review representativeness of the data
 - Review Watershed Assessment Units
 - Use a predetermined consistent approach to assess if split is warranted
 - Human influences
 - Environmental factors
- Step 2 – Internal review by regional DEQ staff
- Step 3 – Public Comment Period
 - Data used in the IR will be made public along with the draft IR