



Red Flags

General Lab Criteria (GLC)



- Why?
- How?
- What?



General Lab Criteria

Why is accurate data important?

- **Water Quality Based Effluent Limits**
- **Facility demonstrate compliance with effluent limits**
- **Design decisions**

General Lab Criteria

Why needed?

- **Inspection history.**
- **Ensure data are defensible.**
- **Ensure requirements are known.**
- **Identify red flags.**

General Lab Criteria

How were the GLC developed?

- **Benchmarking**
- **40 CFR 136**
- **“Standard Methods for the Examination of Water and Wastewater” (AKA: Standard Methods)**

General Lab Criteria

How were the GLC developed?

- Chose common analyses
- Associated Equipment

- Sample Collection / Handling

- Balance

- Drying Oven

- pH Meter

- Dissolved Oxygen Meter

- Incubator

- Refrigerator

- Chlorine Meter

- Ammonia Meter

- Desiccator

- Bench Sheets

- Hot Water Bath

General Lab Criteria

What is the **GLC** focus?

- **Documentation**
- **Std. Methods Requirements**
- **Common Equipment / Procedures**
- **Encourage correction of problems.**

General Lab Criteria

What do the criteria look like?

➤ pH Meter

- Calibration
- Buffers
- Equipment Logbook
- Instrument Manual
- Stirrer (teflon coated?)

General Lab Criteria

What are common “Red Flags”?

- **Written Standard Operating Procedures**
- **Equipment Logbooks**
- **Calibrations**
- **Chains of Custody**
- **Documentation, Documentation!**

General Lab Criteria

What if problems are not corrected?

- **Data Validity in Question**
- **Operator Responsibilities**
- **Responsible Officials**

General Lab Criteria Summary

- NPDES program relies upon defensible data.
- **Documentation is key!**
- GLC is intended to be a tool for the inspector and the facility.

Questions?

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