



DIWG MEETING - CMC BACTERIA MONITORING

March 18, 2024

Photo by Chesapeake Bay Program

BACTERIA MONITORING

IDEXX systems have been used by labs for a long time - they are reasonably priced, easy to set up, provide quick turnaround times for data, and produce replicable data.

Tier 1

- Coliscan Easygel
- R-card

Tier 2 (Lab Analysis)

- IDEXX
Colilert/Enterolert
- Membrane Filtration

CMC TIER REQUIREMENTS

Tier 1

- Monitoring Program - Methods Manual

Tier 2

- Monitoring Program – program manual or approved QAPP
- Lab – State or EPA approved QAPP

Tidal Tier 3 (TN, TP, Chl a)

- Monitoring Program – CBP/EPA approved QAPP and CBP DIWG Field Audit
- Lab – Certified (VELAP/NELAP) or CBP Approved*

*CBP approved labs participate in the split sample, blind audit, and USGS reference sample through the DIWG.

NON-TIDAL TIER 3

Data User - State Integrated Reports

- Parameters used varies by state - [Data Uses](#)
- Conductivity, dissolved oxygen, water temperature, pH and bacteria seem most viable.

Monitoring Program Requirements:

- Approved QAPP - CBP/EPA or **State**
- Field Audit (field and lab parameters) - **Varies by state**

Lab Requirements:

- VELAP/NELAP Certification or **State approval**

BACTERIA TIER 3 DATA USES BY MONITORING GROUPS

1. Data credibility when engaging and educating the public about water quality issues and recreational decisions.
2. Lawsuits and identifying permit issues/violations.
3. Helps secure funding opportunities.
4. Regulatory decision making - listing and delisting waterways.

CMC TIER REQUIREMENTS

Tier 1

- Monitoring Program - Methods Manual

Tier 2

- Monitoring Program – program manual or approved QAPP
- Lab – State or EPA approved QAPP

Tier 3

- Monitoring Program – CBP/EPA approved QAPP and **Field Audit**
- Lab – **Certified (VELAP/NELAP) or CBP Approved***

STATE REQUIREMENTS

Virginia

DEQ approved QAPP
DEQ conducts a field and
lab audit

Level 3 – VA Integrated
Report

District of Columbia

DOEE approved QAPP
DOEE conducts a lab
audit

Public education and
outreach
DC Integrated Report –
unclear use

Maryland

CBP approved QAPP
MDE conducts a field
and lab audit

Tier 3 – MD Integrated
Report