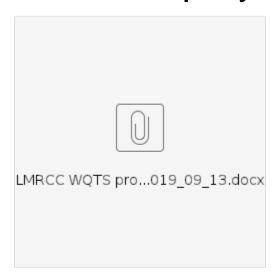
# LMRCC water quality monitoring data report



Currently Due July 30, 2020

Reach Data

LMRCC Water Quality Assessment report

#### Want to show:

- MAP: All sites on the main stem starting at St. Louis, plus first site on tributaries if possible.
- MAP: Long term sites only
- CHART: Frequency of measurements (dot plot) for each long term site+parameter
- CHART: with each site and its overall date range
- TABLE: For each parameter, the number of sites with long term data
- TABLE: all parameters and the number of measurements of each
- Break up into Physical; Nutrient; Sediment; Biological; Major metals; Major non-metals data if possible.

#### Workflow outline

- 1. Get list of sites on main stem
  - a. Downloaded from WQP HUC 08; STORET, ATTAINS, NWIS; all dates
    - i. Need to add reach starting at St. Louis going south that is outside of HUC 08
  - b. Clipped to Main Stem
  - c. Identify Parameters at each site (done)
    - i. Date range of each parameter
      - Length of time series
    - ii. Date distribution / frequency of samples of each parameter
      - 1. Floating bar chart
    - iii. Map sites by organization
- 2. Reach out to organizations to ask to verify that most of their data is there and if they have additional sites that are not on the list.
  - a. Once list of sites is complete, filter to get summary of all the organizations "OrganizationFormalName"
  - b. get unique site names for each organization
  - c. plot sites on the map with some information on dates what was collected at the site.

### Stats so far:

75 sites in water quality portal in HUC-08 on main stem, side channels,.

## Report Outline

**Executive Summary** 

Introduction

Brief Discussion of Assessments

Discussion of Parameters used for ecological health

Summary of data by agency, organized by state

Discussion of potential new monitoring activities / schemes

Discussion of gaps in data

Discussion of Water Quality Portal importance