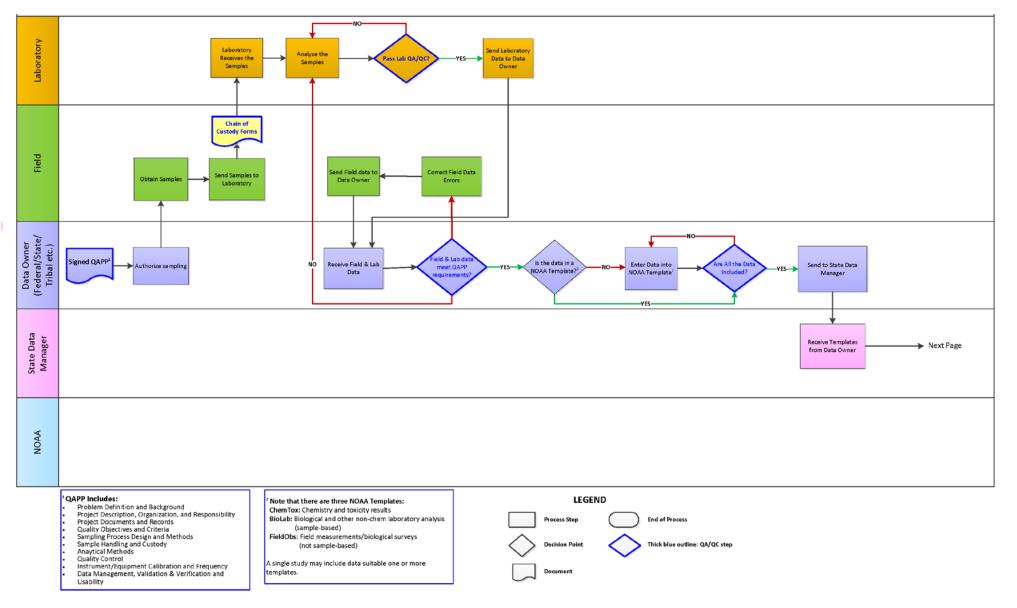
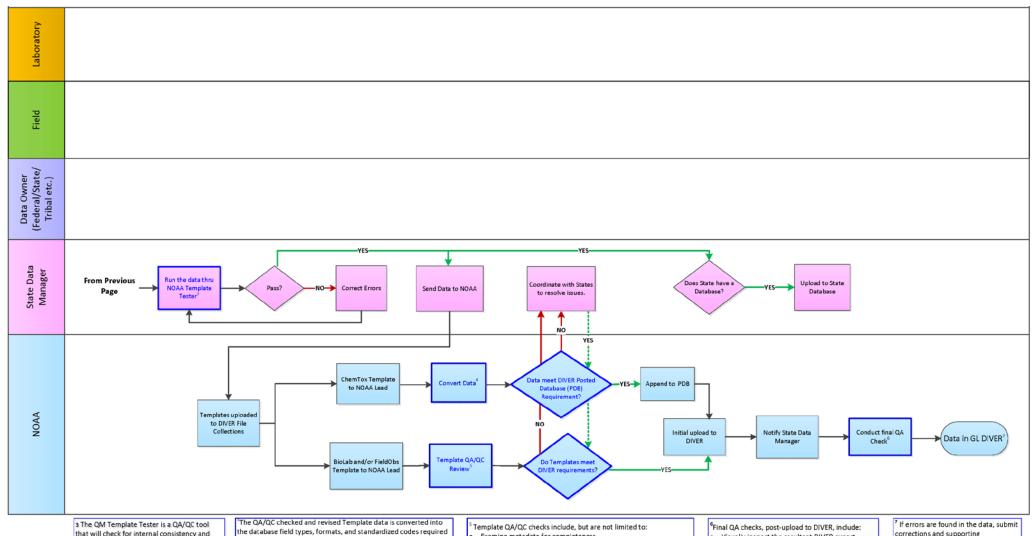
Great Lakes DIVER Data Flow and QA/QC Process Map for St. Louis River AOC



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a The QM Template Tester is a QA/QC tool that will check for internal consistency and identify issues that are relatively straightforward for the user to identify and repair. Refer to NOAA guidance documents for information on the use of the Template Tester and the List of Checks conducted.

The QA/QC checked and revised Template data is converted into the database field types, formats, and standardized codes required for the NOAA posted database (PDB) format and DIVER. Additional QAQC checks are conducted to:

- Check for outliers
- Ensure data integrity through the translation process
 Ensure calculations to standardize results (e.g., unit conversions) were conducted accurately
- Ensure all fields for which valid values apply are represented in the associated dictionary files
- Examine metadata for completeness
- Compare study name to master list, to determine if data are paired with contaminant chemistry
- Ensure each record is unique
- Conduct checks on specific fields to ensure adherence to valid and
- suggested values, including date and spatial coordinates

 Compare raw data with template file to ensure integrity in
- Compare raw data with template file to ensure integrity in transformation process
- Visually inspect the resultant DIVER export
- Check that the reported coordinates map as expected
- Ensure records counts are correct
- Query and export the data to ensure data are viewable by correct audience and maintain integrity on export.
- NOAA and States conduct final review & QA/QC.

7 If errors are found in the data, submit corrections and supporting documentation to orr.diver@noaa.gov. Data updates will be published on the DIVER website in "What's New" link, currently in development.