Introducing ETP-CAD

ETP-CAD

The software has developed by using the MATLAB and C programming Languages.

Simple Diagram of an ETP

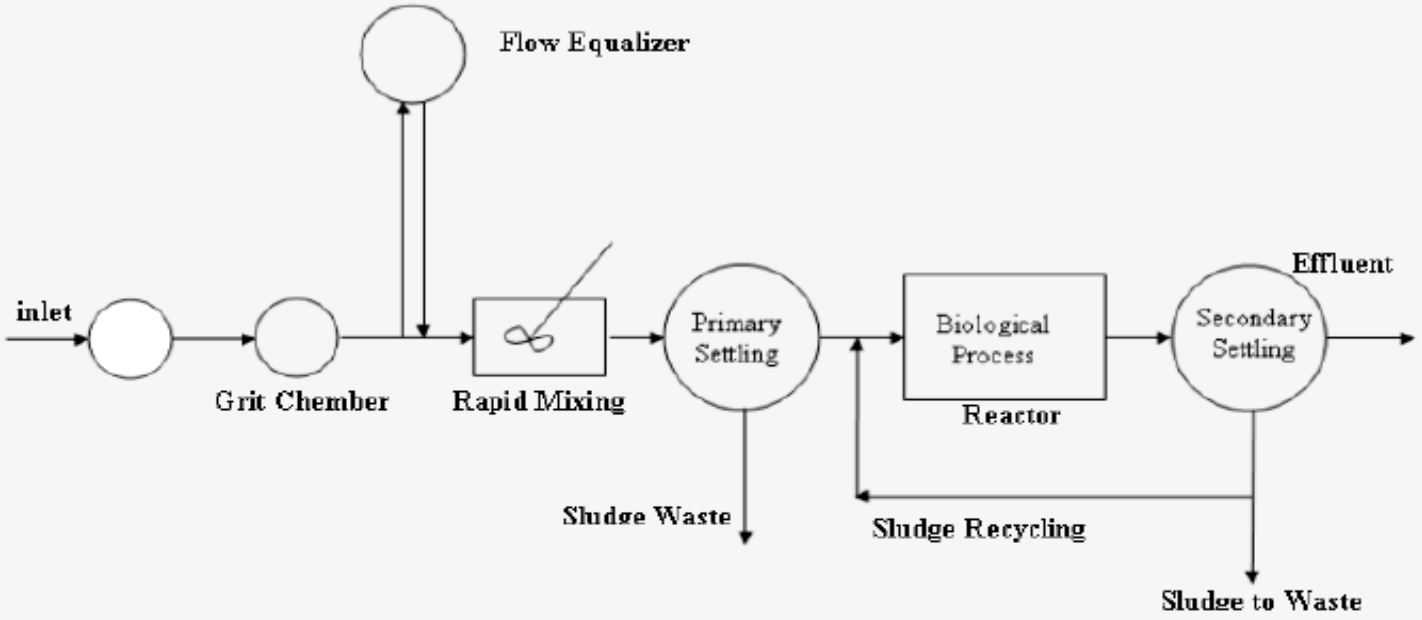


Fig-o1: Flow Diagram of Conventional Activated Sludge process

Basic Steps to Design an ETP

- Step1 → **Designing Primary Settling Tank**
- Step2 → **Designing Reactor Tank**
- Step3 → **Designing Secondary Clarifier**

Step - 1

Designing of Primary Settling Tank

- **Required Experiment:**
  - Jar Test
  - Column Test

Data Acquisition

Jar Test Data
Column Test Data

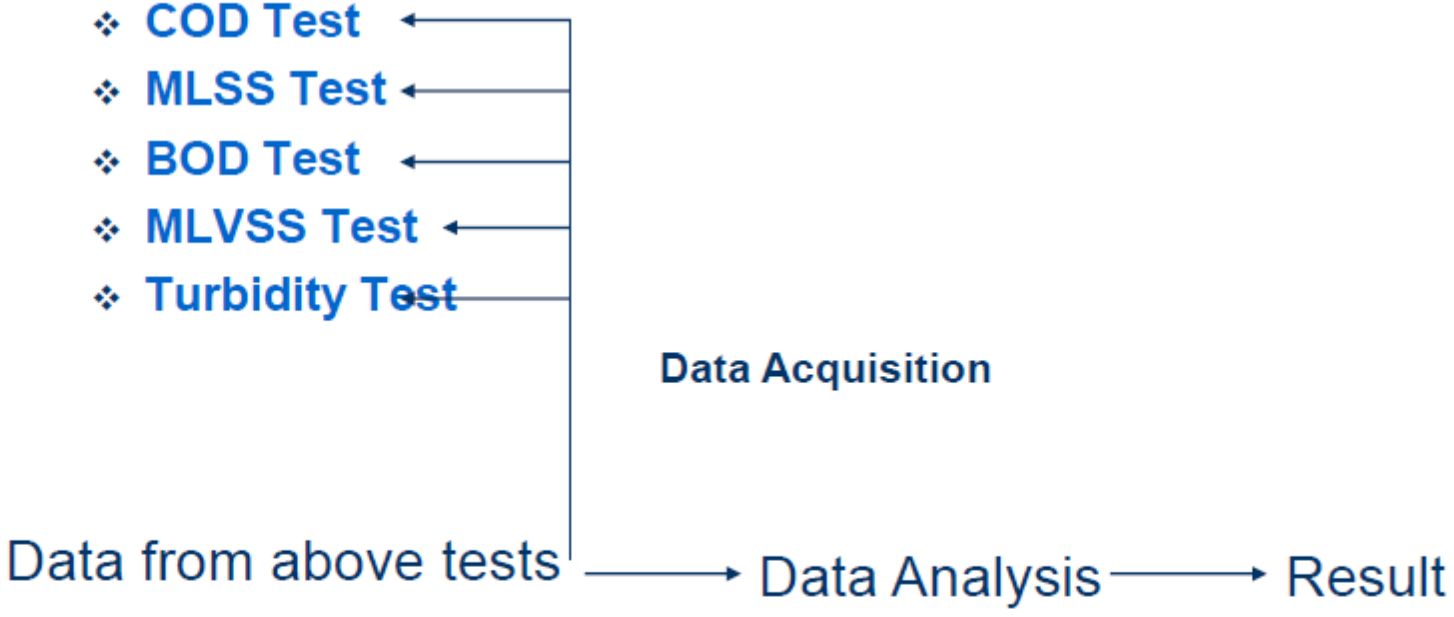
Data Analysis

Result

Step - 2

Reactor Design

- Required Test
  - COD Test
  - MLSS Test
  - BOD Test
  - MLVSS Test
  - Turbidity Test



Step - 3

Designing Secondary Clarifier

- Required Experiment
  - → Zone Settling Test

Data Acquisition

Data from

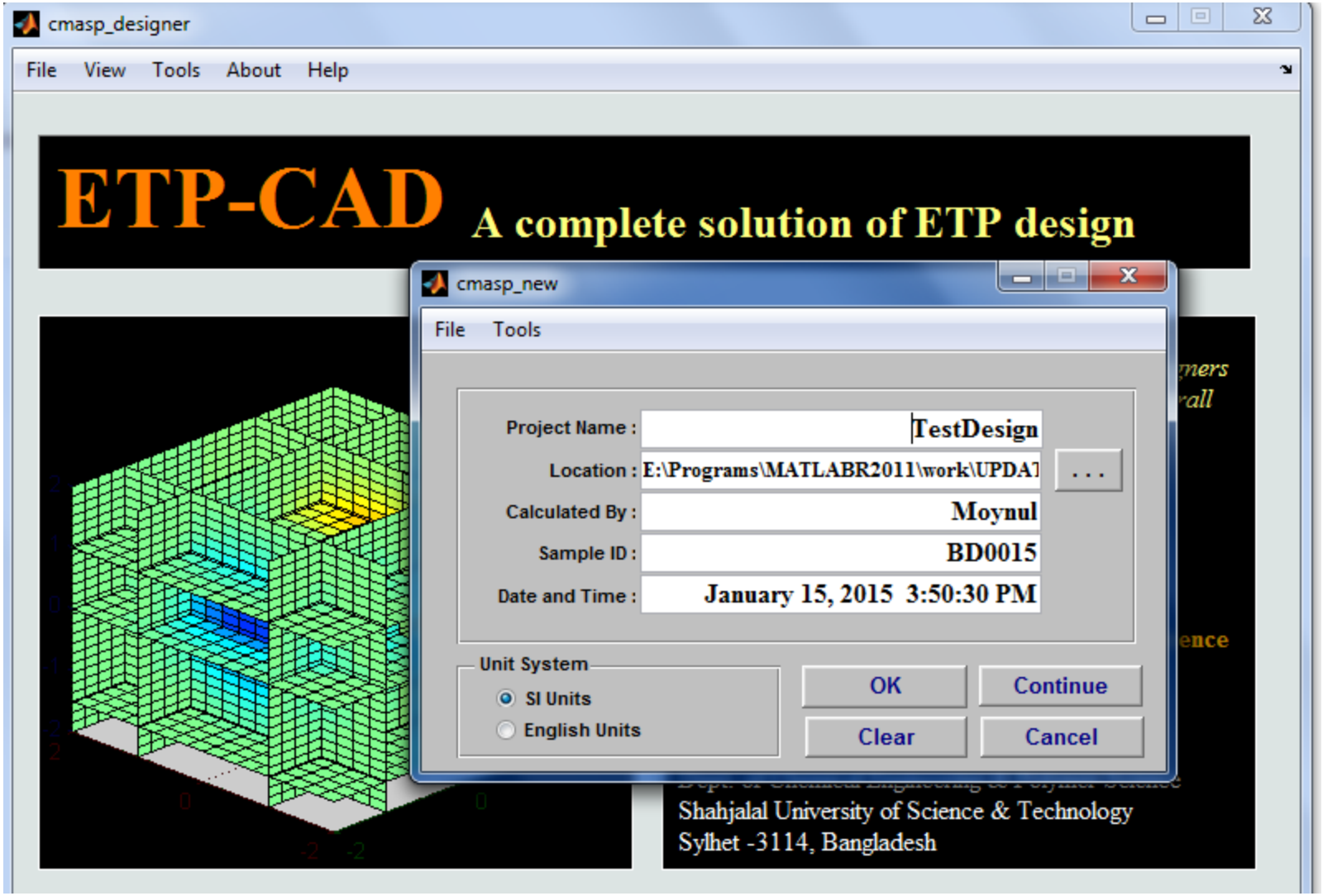
→ Data Analysis → Result

Purposes to Design the Software

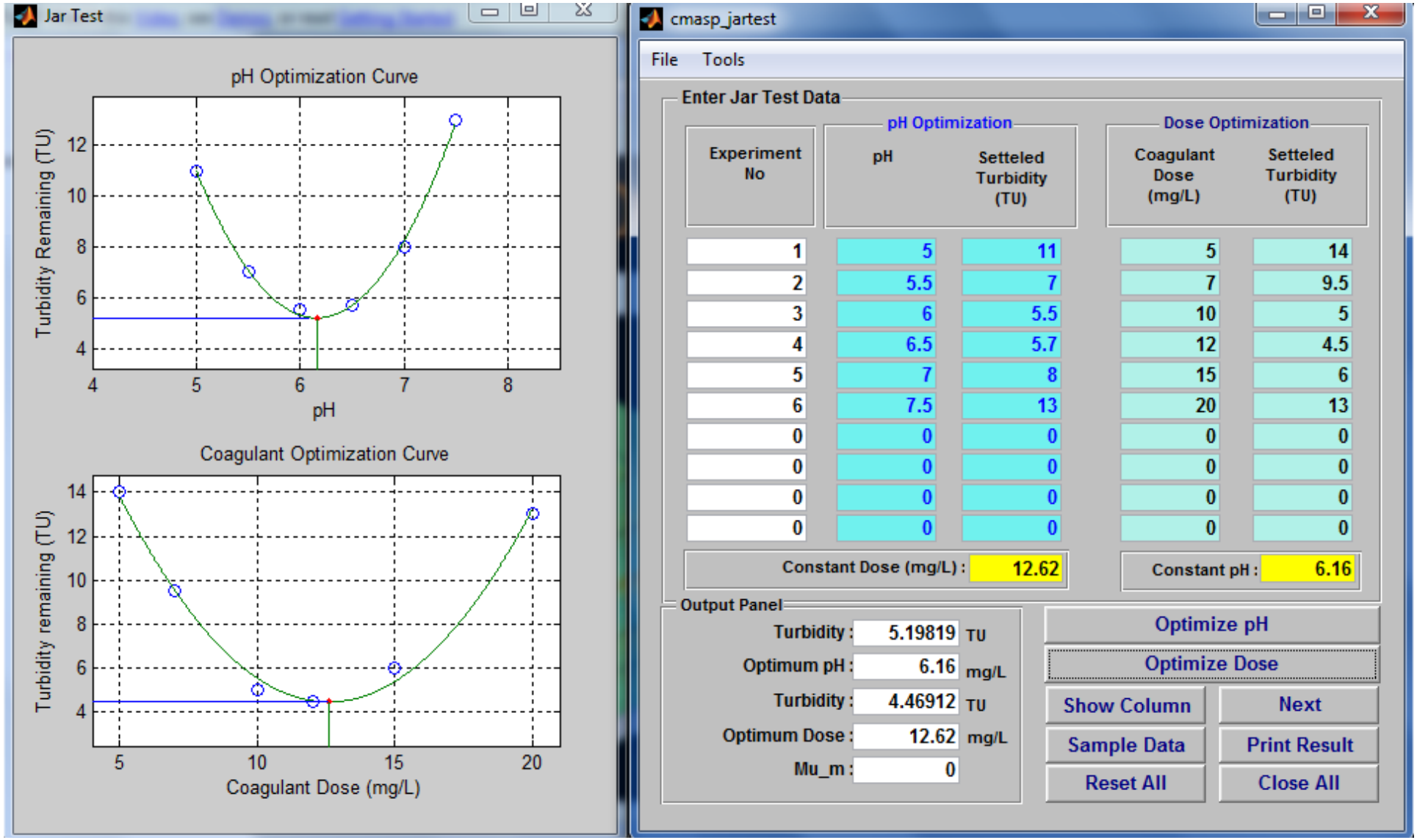
- To enhance the followings
  - Design
  - Optimization
  - Performance Analysis
  - Visualization
  - Taking Decision
- To increase efficiency and accuracy
- Language Used: MATLAB, C++

Software Demonstration

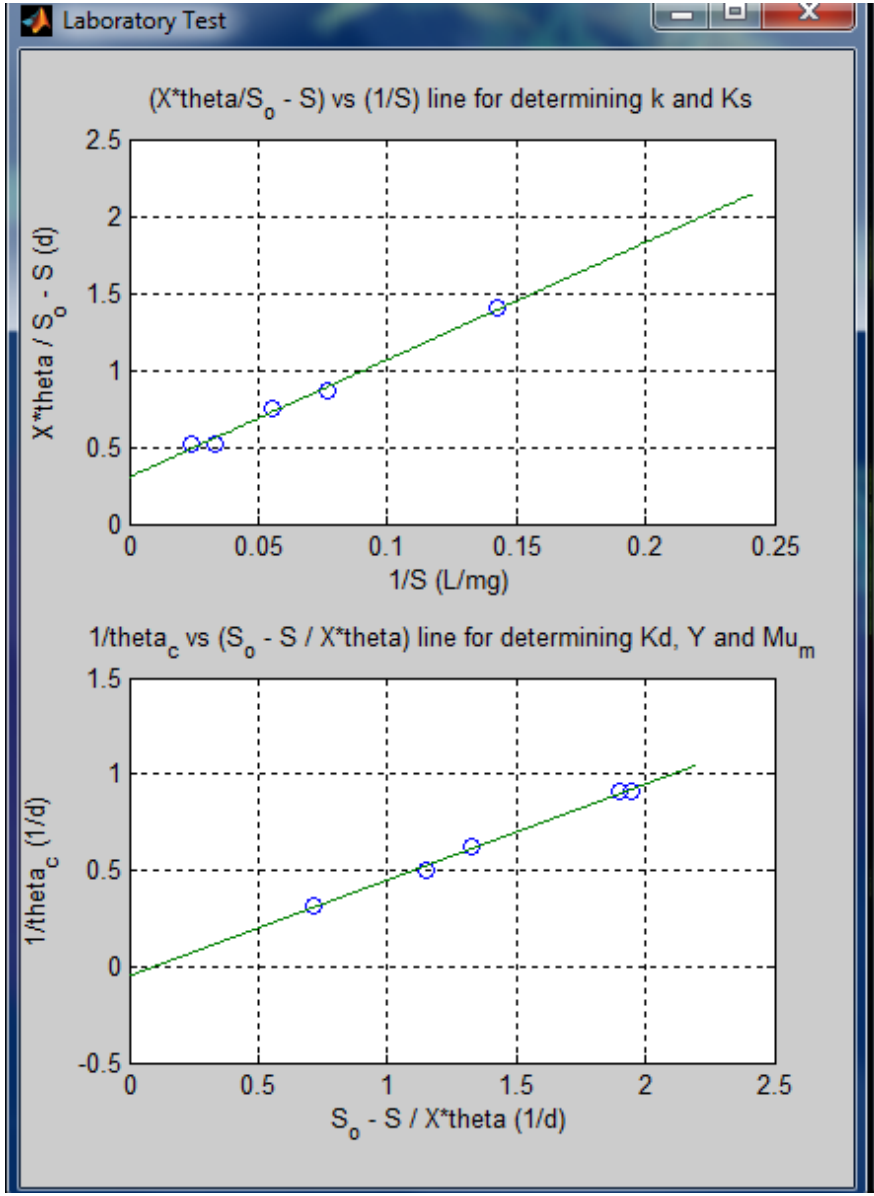
- Let us go to the software demonstration section.....

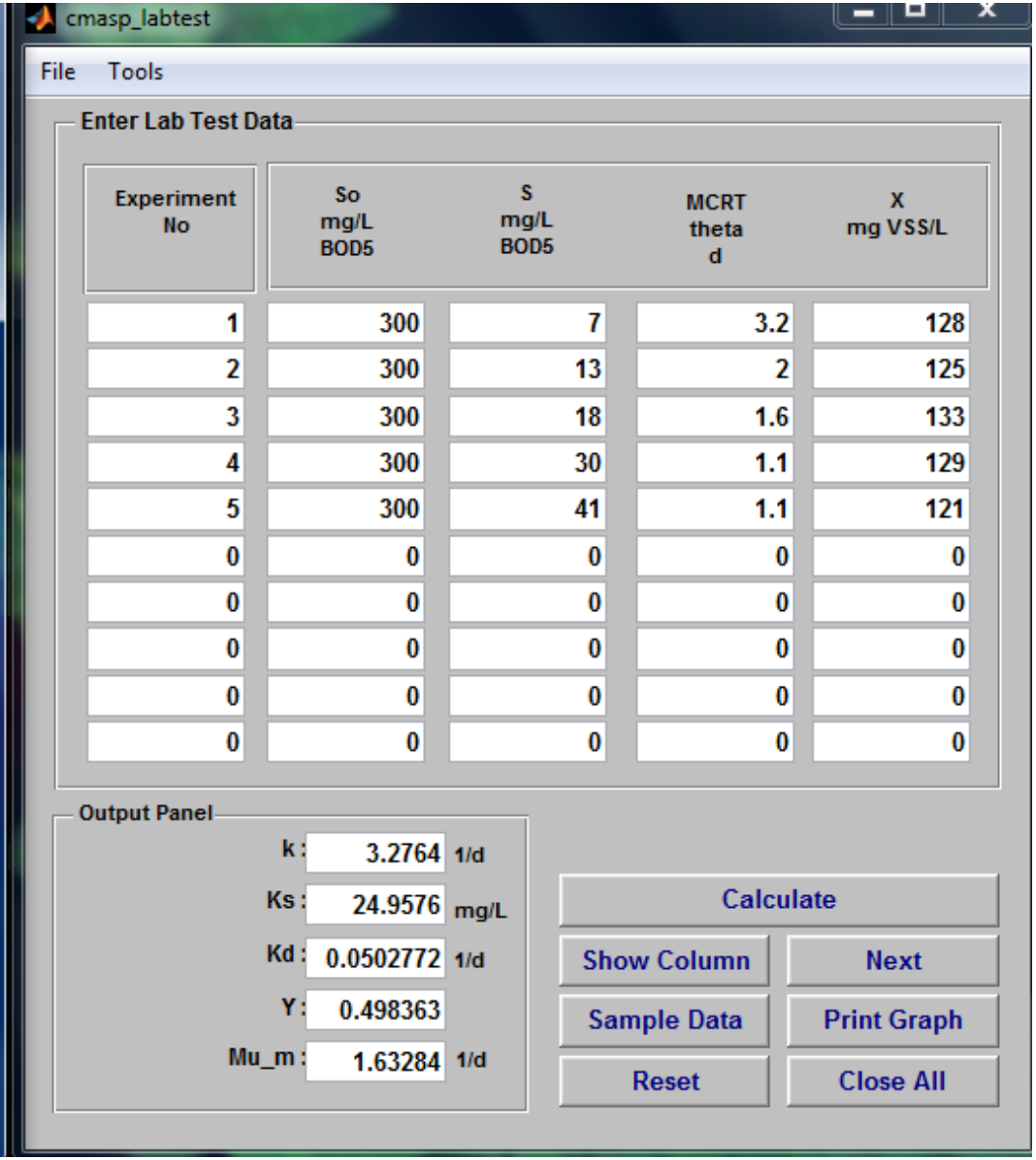


Opening a New Project

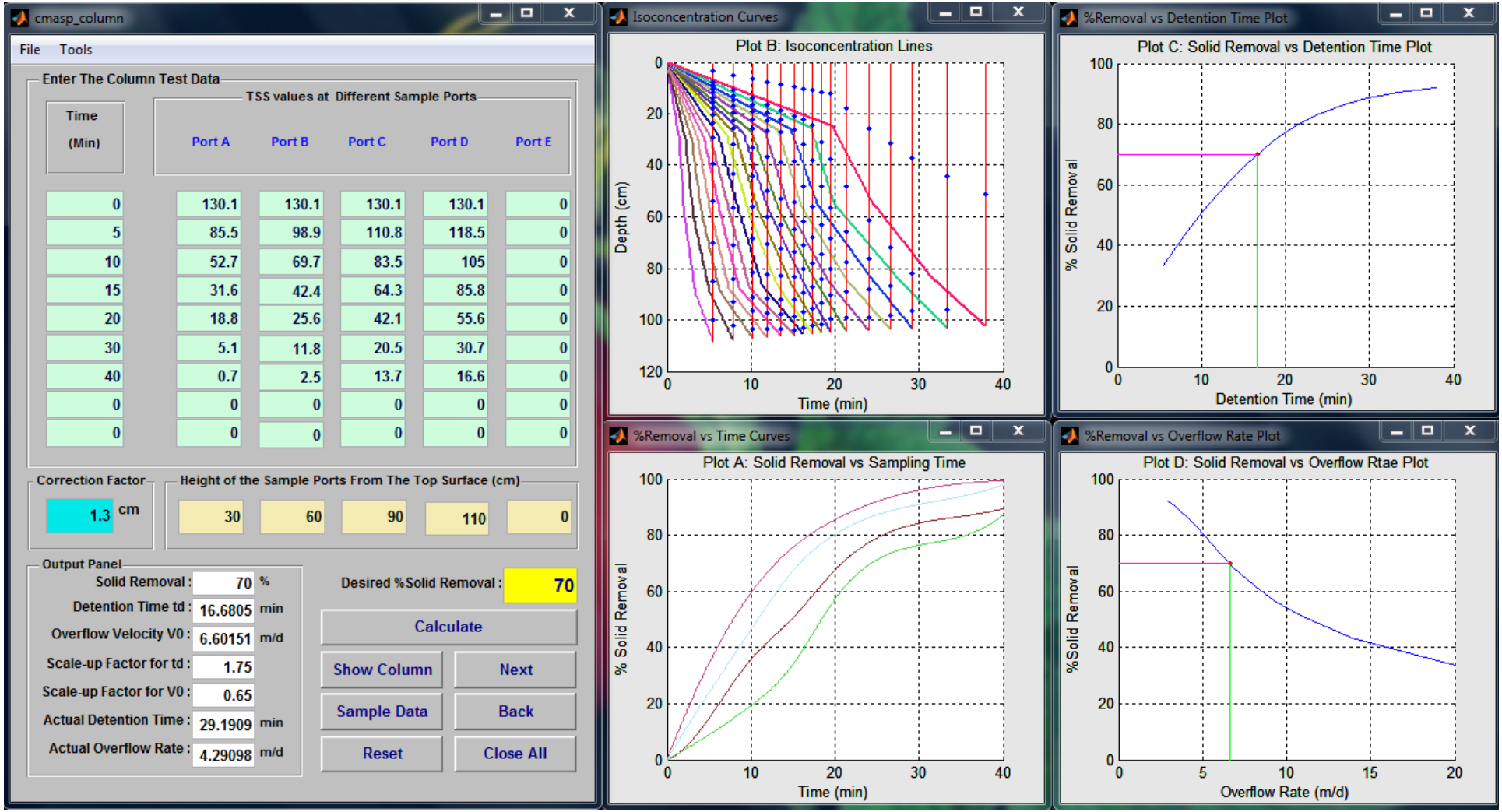


Jar Test Data Analysis

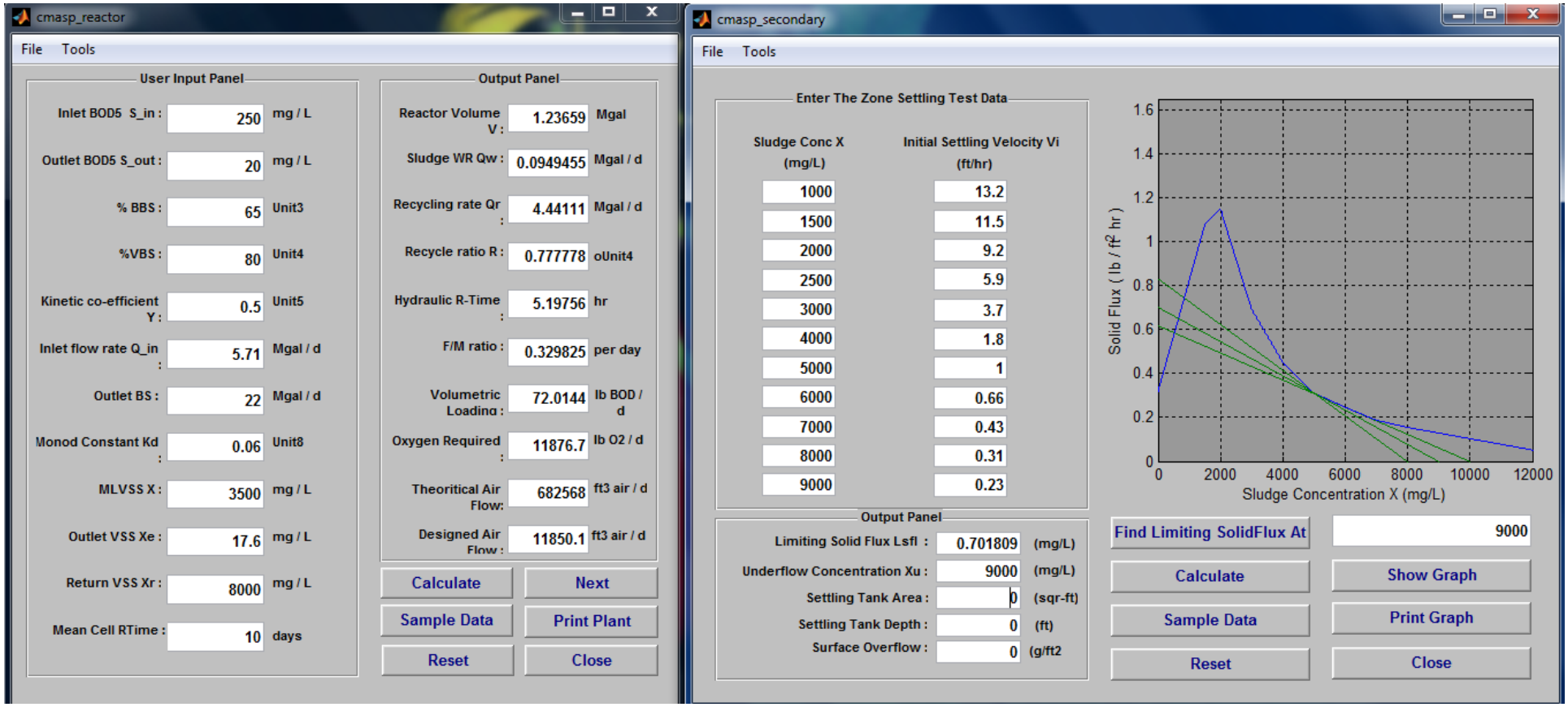




Lab Test Data Processing



Column Test Data Processing to Design Primary Clarifier



Data Processing for Reactor and Secondary Clarifier Sizing