**Lab 3- Oxygen Depleted Nonlinear Curve Fitting**



2nd order model

k=

**Figure 1.** Measured dissolved oxygen levels with respect for time from the first trial. Circles represent data points and the line represents the fitted model. 2nd order model corresponds to the reaction order used to generate the fitted model and k corresponds to the reaction rate coefficient.



Zero order model

k=

**Figure 2.** Measured dissolved oxygen levels with respect for time from the second trial. Circles represent data points and the line represents the fitted model. Zero order model corresponds to the reaction order used to generate the fitted model and k corresponds to the reaction rate coefficient.



1st order model

k=

**Figure 3.** Measured dissolved oxygen levels with respect for time from the third trial. Circles represent data points and the line represents the fitted model. 1st order model corresponds to the reaction order used to generate the fitted model and k corresponds to the reaction rate coefficient.