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Lab 3 Part 1

CENG 340 Enviro

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**Figure 1. Second order reaction for dissolved oxygen concentration as a function of time using data from Trial 1.**

**Figure 2. Zero order reaction for dissolved oxygen concentration as a function of time using data from Trial 2.**



**Figure 3. First order reaction of dissolved oxygen concentration as a function of time using data from Trial 3.**

**Table 1. Reaction order and reaction rate coefficients from Trial 1, 2, and 3.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Trial 1** | **Trial 2** | **Trial 3** |
| **Reaction order, n** | Second | Zero | First |
| **Reaction Rate Coefficient, k** | 0.14 L/mg-min | 0.30 mg/L-min | 0.11/min |