

Department of Civil Engineering
2010 Summer Semester
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Aquatic Environmental Science

Outline #04 (10 May 2010)

1. Report outline
 2. Acidity of water
 - pH calculation
 - Polyprotic acid
 - pH buffering
 3. Oxidation and reduction
 - Definition of oxidation and reduction
 - Valence
 - Oxidant and reductant
 - O₂ concentration
 - Redox potential (ORP, E_h)
 - Definition of pE
 - pE-pH diagram
 4. Exercise
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