



Department of Civil Engineering 2014 Summer Semester Yoshimura Chihiro

Aquatic Environmental Science

Outline #05: Acidity (pH)

- 1. Basic Analytical Chemistry
 - Quantification of analytical errors
 - Calibration and validation
 - General procedure for determining solute concentrations
- 2. Acidity of Water
 - Definition of pH
 - Equilibrium constant
 - pH in living systems
 - pH in natural waters
 - Calculation of pH
 - Polyprotic acids
- 3. pH and Dissolution
 - Solubility curve
 - Solubility product
 - Solubility and pH
 - Solubility of metals
 - The rate of dissolution
- 4. Exercise