Standard Operating Procedure

pH Meter

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| **Department:** | Earth and Environmental Sciences |
| **Date SOP was written:** | 2/27/2015 |
| **Date SOP was approved by PI/lab supervisor:** | 2/27/2015 |
| **Principal Investigator:** | John Ayers |
| **Internal Lab Safety Coordinator/Lab Manager:** | Richard Bradshaw |
| **Lab Phone:** |  |
| **Office Phone:** |  J. Ayers (615) 322-2158 (campus phone: 2-2158)Bradshaw (615) 343-0839 (campus phone: 3-0839 |
| **Emergency Contact:** |  J. Ayers (615) 973-1879R. Bradshaw (208) 260-2792 |
| *(Name and Phone Number)* |
| **Location(s) covered by this SOP:** | *SC5708* |
| *(Building/Room Number)* |

**Type of SOP:** ☒ Process ☐Hazardous Chemical ☐ Hazardous Class

**Personal Protective Equipment (PPE)**

**None**

# **Medical Emergency Dial (615) 322-2222 for Vanderbilt Police**

**Life Threatening Emergency, After Hours, Weekends And Holidays** – Dial **(615) 322-2222 for Vanderbilt Police** or go to the nearest emergency room. *Note: All serious injuries must be reported to EH&S within 8 hours.*

**Non-Life Threatening Emergency** – Go to the Occupational Health Facility (OHF). After hours go to the nearest emergency room. *Note: All serious injuries must be reported to EH&S within 8 hours.*

**Protocol/Procedure**

1) Press Standby

2) Remove probe from storage solution and rinse it with deionized water and dry with Kim wipe.

3) Put probe in solution in which you wish to measure pH.

4) Wait until the pH readout stabilizes on the screen and it says “stable” to record measurement.

-Note that it can fluctuate even after it says “stable”. Just wait until the fluctuations stop.

5) When finished, rinse probe with deionized water and repeat for next sample, or press standby if finished and put the probe back in storage solution.

6) **calibration:**

- Using same methods as above, put pH meter in a pH calibration solution.

- Once the pH readout stops fluctuating, continuously press the “std” button until the pH readout equals that of the calibration solution.

**NOTE**

Any deviation from this SOP requires approval from PI/Lab Manager.

Further information can be found in the manual located where the pH meter is.

 **Documentation of Training** (signature of all users is required)

* Prior to conducting any work with the pH Meter, PI or LM must provide training to his/her laboratory personnel specific to the hazards involved in working with this equipment, work area, and emergency procedures.
* The Principal Investigator must provide his/her laboratory personnel with a copy of this SOP.
* The Principal Investigator must ensure that their laboratory personnel have attended appropriate laboratory safety training and are current with any refresher training required.

**I have read and understand the content of this SOP:**

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| **Name** | **Signature** | **Date** |
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