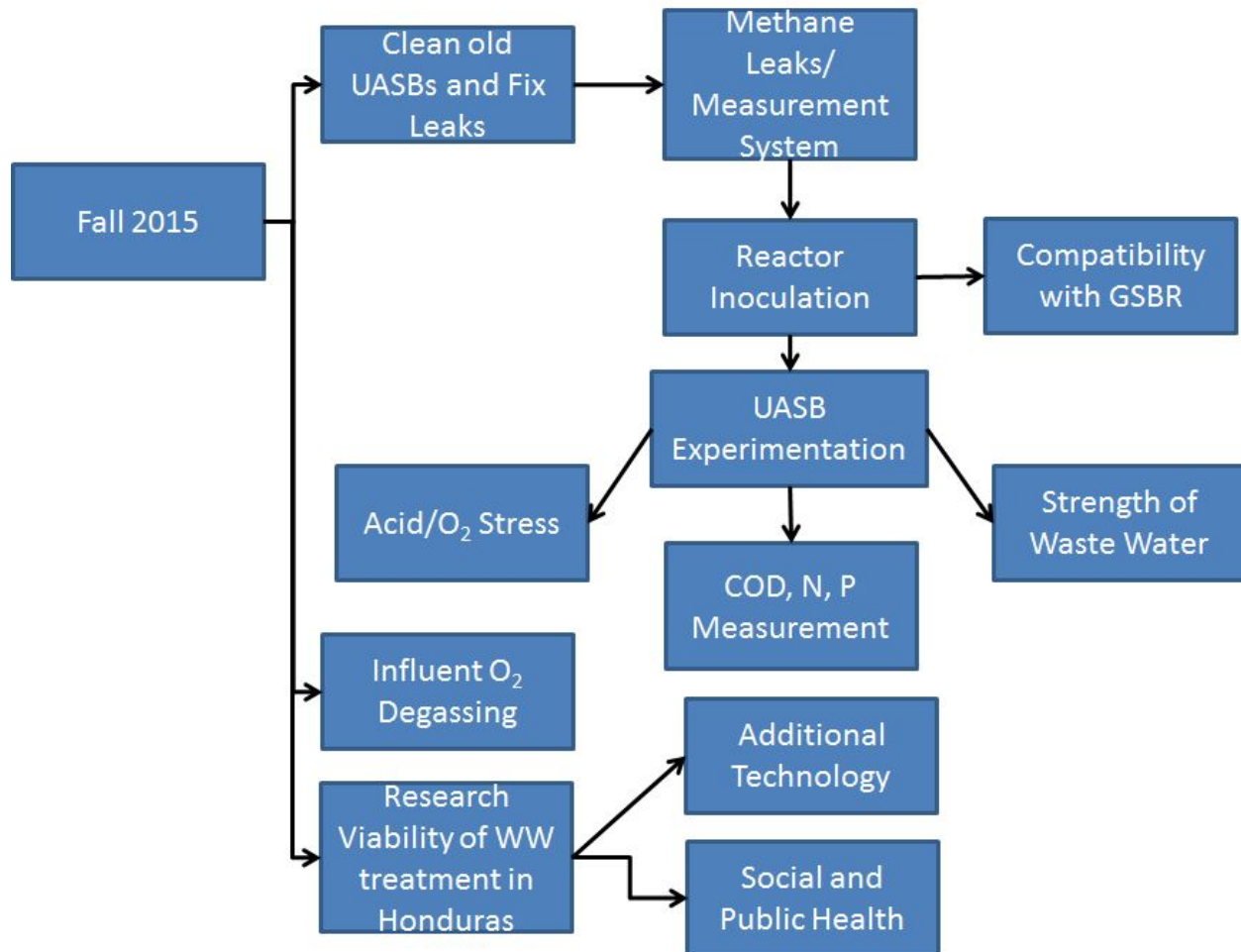


UASB Fall 2015 - Task Details

Mason Minot, Evan Greenberg, Yi Guo, Zoe Maisel

Task Map



Detailed Task List

- I. **Literature Review** – Complete by 9/9/15
 - a. Status: Incomplete
- II. **Clean old UASBs and Fix Leaks** – Status: Incomplete (Zoe). 9/14 and 9/21
 - a. Clean out biomass in existing reactors
 - b. Measure airflow with bubble counter
 - c. Identify/repair source of leaks
 - i. Immerse in water
 - ii. Bubble counter

- III. **Create final UASB to run further experiments on** – Status: Incomplete **9/21 and 9/28**
- IV. **Methane Leaks/Measurement System** – Status: Incomplete (**Yi**) **9/28-10/5**
 - a. Bag test
 - b. GC/MS
 - i. Partial pressure methane measurements
 - c. Inoculation
- V. **UASB - GSBP coupling** - Status: Incomplete (**Evan**) **10/5-10/13**
- VI. **Experiments** – Status: Incomplete (**Mason**) **TBD**
 - a. pH probe setup and calibration
 - b. COD,N,P Measurement
 - c. O₂ Stress or Vary Wastewater Strength
- VII. **Influent O₂ Degassing** – Status: Incomplete (low priority) **TBD**
- VIII. **Research Social, Political, and Health Impacts** – Status: Incomplete (if time permits)
 - a. Alternative technologies to UASB/GSBR for WW treatment
- IX. **Draft Final Report** – Status: Incomplete **TBD**

Trainings:

1. Process controller / ProCoDA (9/14/15) - **Week 2**
2. Media preparation (9/16/15) - **Week 2**
3. COD analysis (9/21/15) - **Week 3**
4. Nitrogen and Phosphorous Assays (9/23/15) - **Week 3**
5. GC (9/28/15) - **Week 4**

Team Member Roles

Zoe Maisel – Technical Writing Coordinator

Mason Minot – Team Coordinator

Evan Greenberg – Materials and Data Coordinator