

### Isotope Sediment Analysis – Sample Prep Procedure

Line up all bags from a core and take a photo before beginning the baking process

#### **Prepping Samples for Drying**

1. Homogenize bag of wet sediment for roughly 1 minute.
  - Fully scrape out entire bag!!!
2. Label each tin and weigh each tin (empty) then record.
3. Load with sediment, record the wet sediment weight + tin weight (tare so just wet sediment)
  - Load enough sediment to fill a petri dish.
4. Dry the sediment in a 60deg C oven overnight.
5. Record the dry sediment + tin weight.
6. Determine the net change in sediment weight.

#### **Prepping Samples for Detector**

7. Label and weigh empty petri dish
8. Crush the Sediment in mortar and pestle
9. Load petri dish with dry sediment and compact with pestle
10. Measure 4 sides of petri dish to make sure roughly uniform height
11. Weigh dry sediment in petri dish
12. Tape petri dish shut, don't tip it over because can spill!

#### **\*\*\*Note:**

- 1) If enough sample to fill petri dish with sediment leftover, then leave some sediment in sample bags.
- 2) If you need entire sample to fill petri dish, then dry everything. Before running samples save some of the dried and crushed sample in a fresh tiny Ziploc bag and label then set to the side.
  - Current File Path for Samples that have run:
    - o Local Disk → GENIE2K → OSU Migration → AK\_HB\_22
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