

Diary of an Odor Sample

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St. Croix Sensory A Sensory Testing & Training Company

. . . specializing in odor testing of air samples, commercial products, & materials.



Odor Sampling Checklists

- Schedule
- Safety
- Equipment and Supplies
- Site Coordination
- Methods and Standard Practices
- Chain of Custody and Shipping

Laboratory Odor Testing Standards

ASTM E679-04

*Standard Practice for Determination of
Odor & Taste Thresholds...*

EN13725:2003

*Air Quality – Determination of Odour
Concentration by Dynamic Olfactometry*

Assessor at Olfactometer

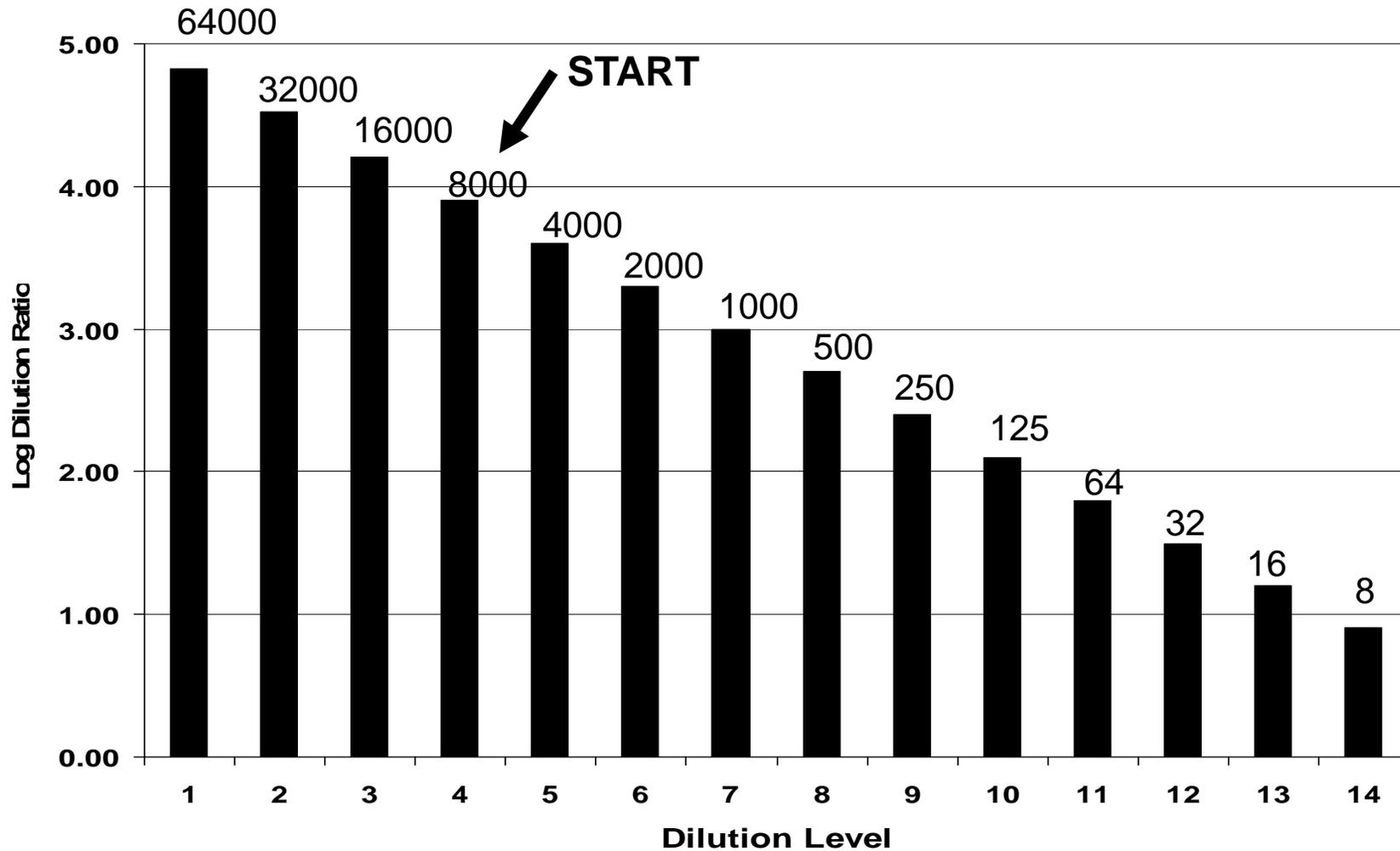


Odor Laboratory Olfactometer

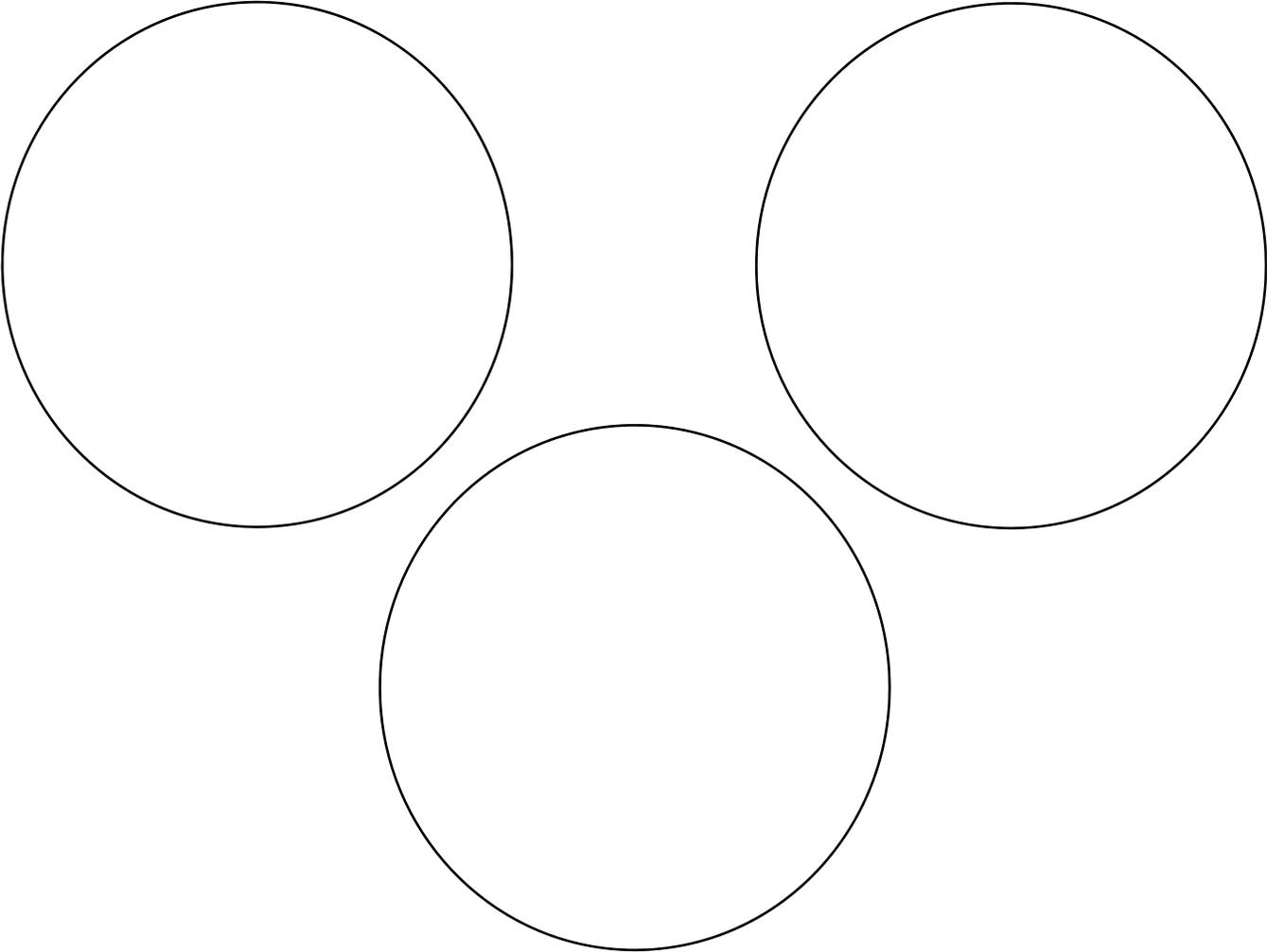


Assessor sniffing diluted odor sample

Olfactometer Dilution Ratios

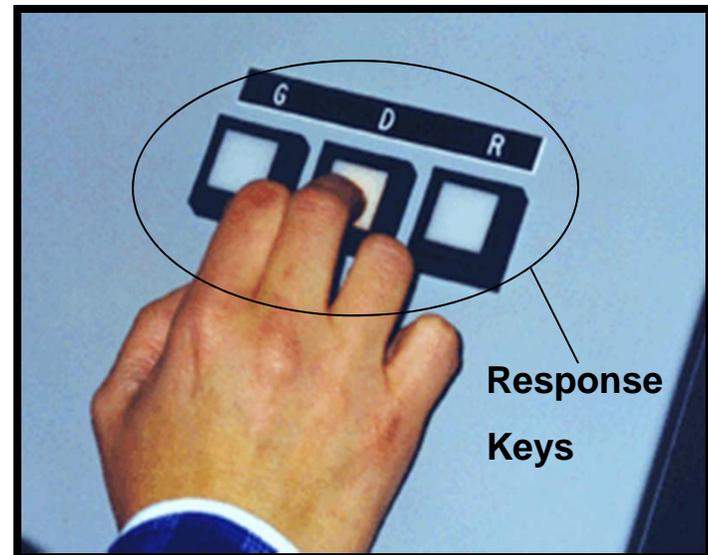
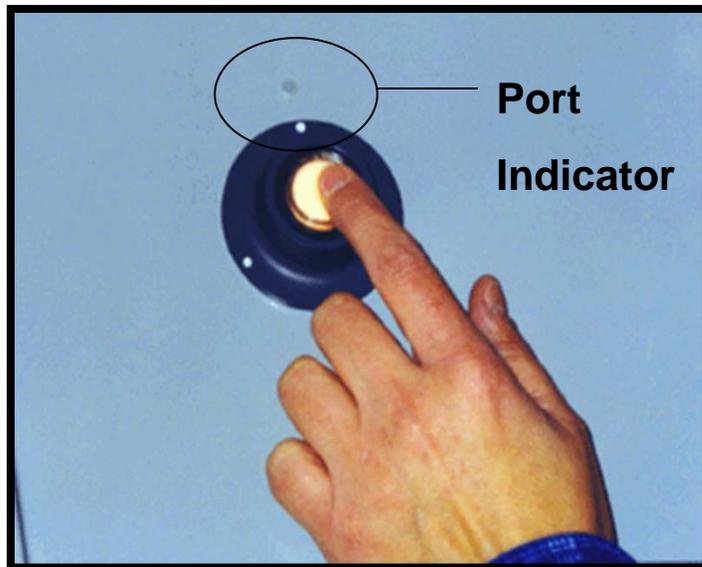


Dilution Level 8,000

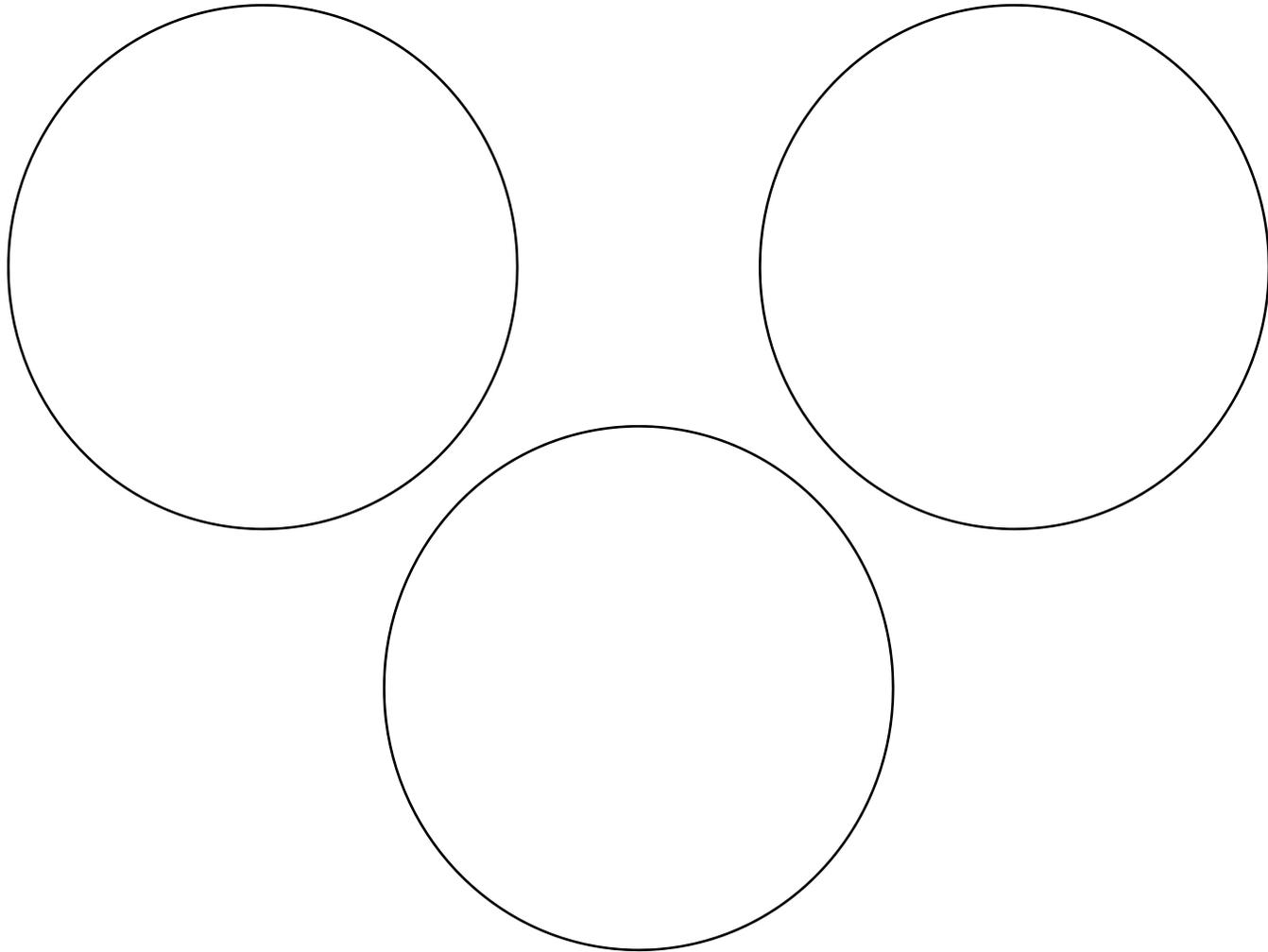


Guess

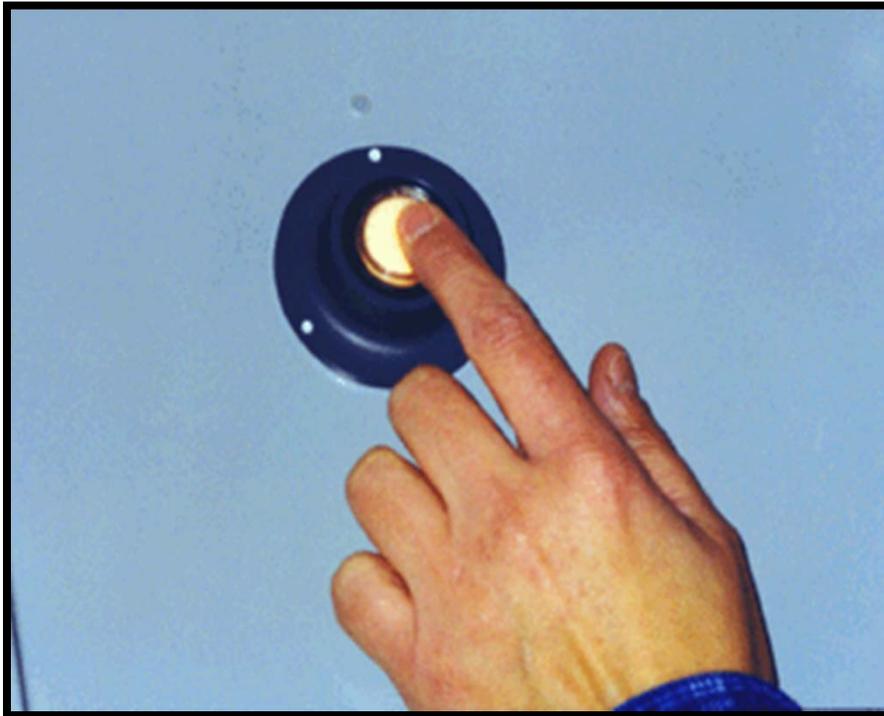
“I selected the port by guessing.”



Dilution Level 4,000



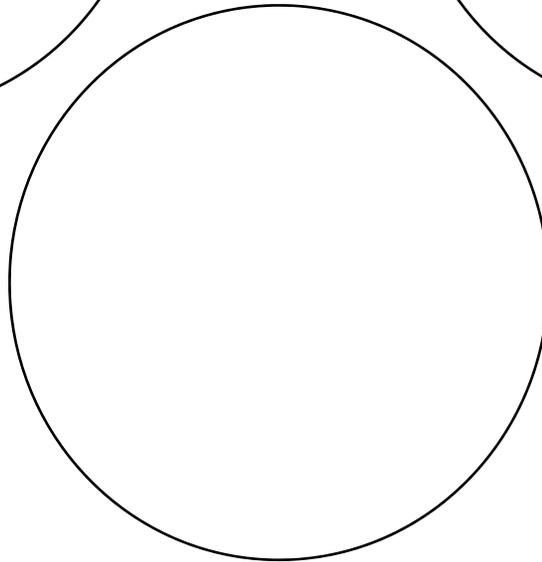
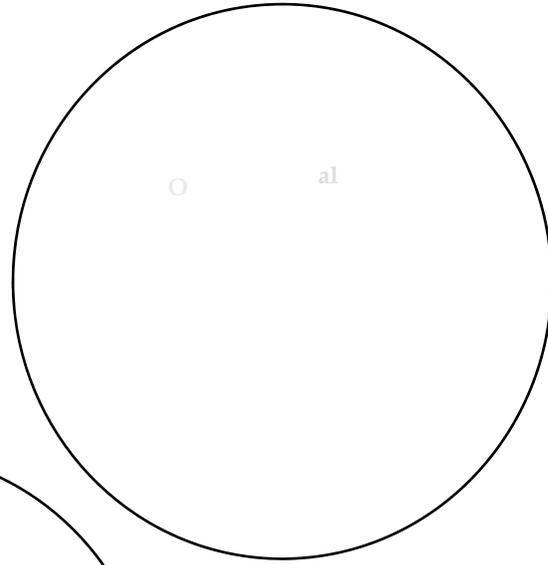
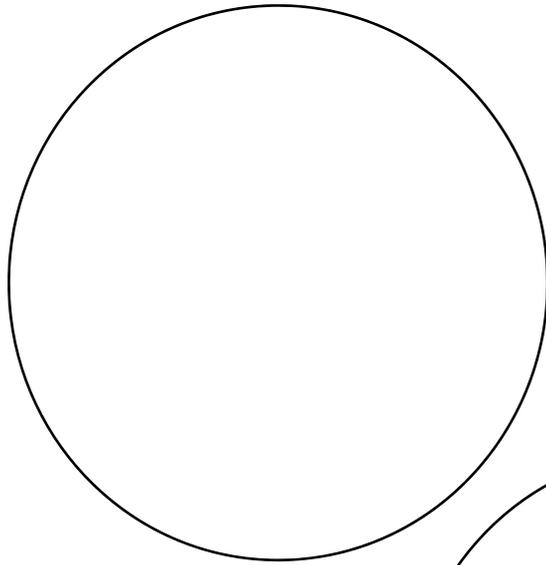
Guess



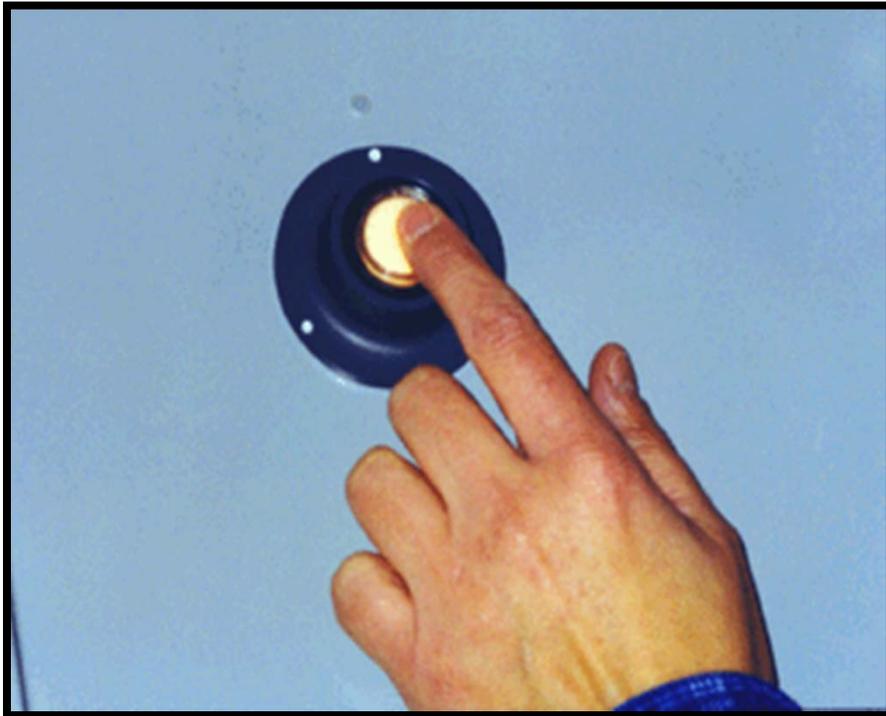
“I selected the port by guessing.

I cannot yet perceive a difference between the blank and the odor presentation.”

Dilution Level 2,000



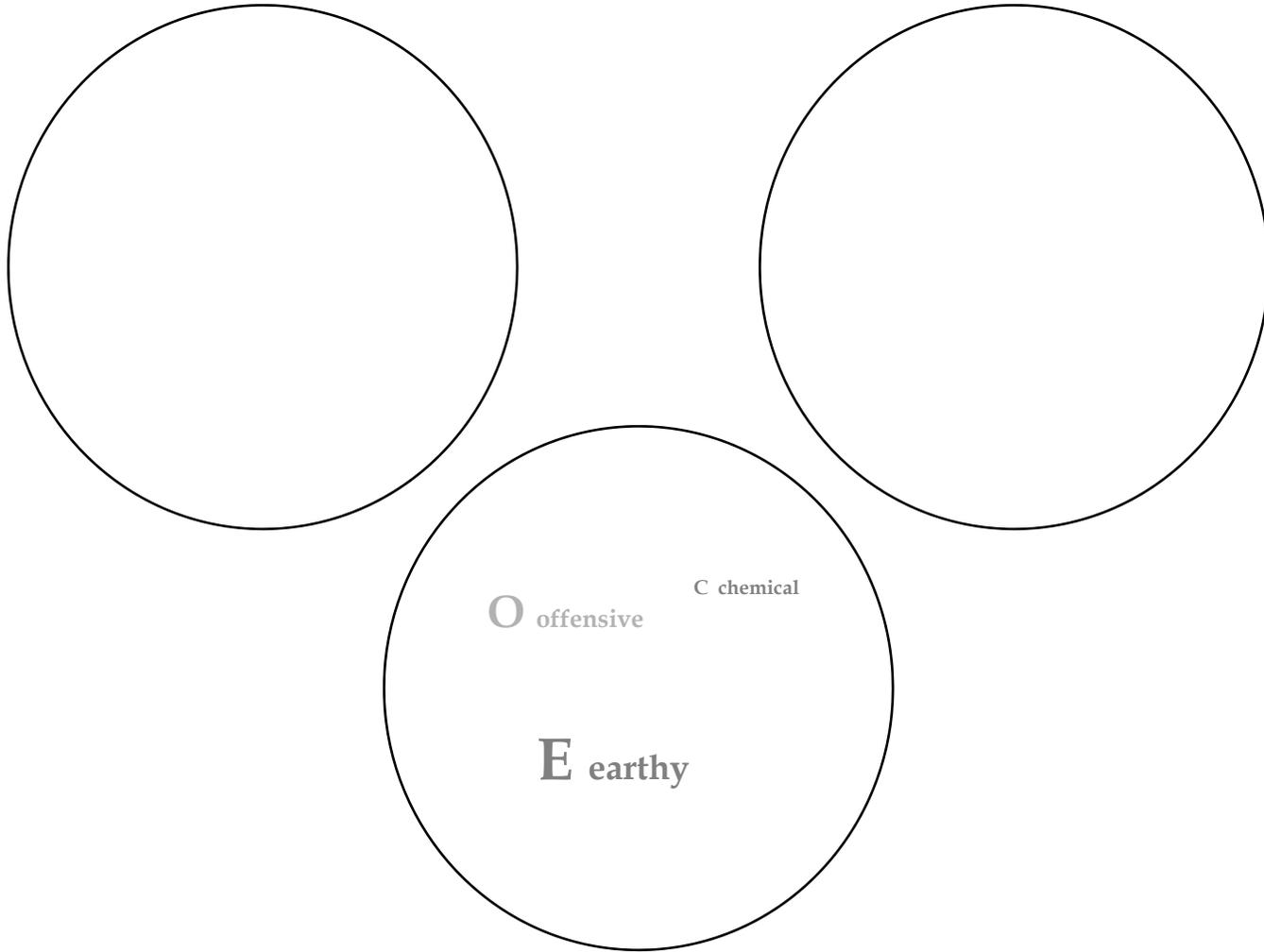
Detect



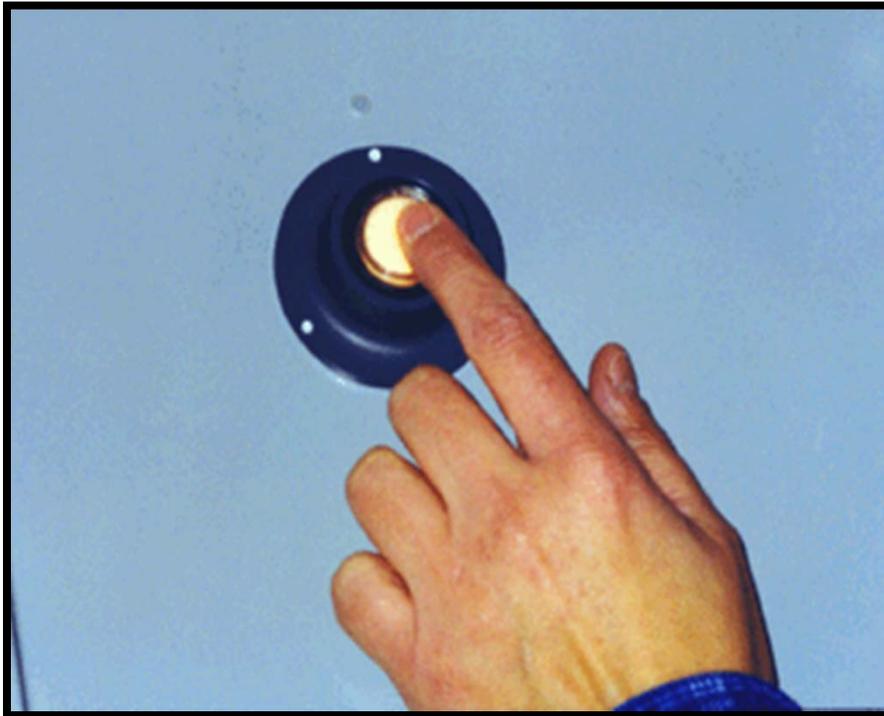
*“I selected the port
by detecting.”*

*I am certain one
presentation is
different from the two
blanks.”*

Dilution Level 1,000



Recognize



“I selected the port by recognizing.”

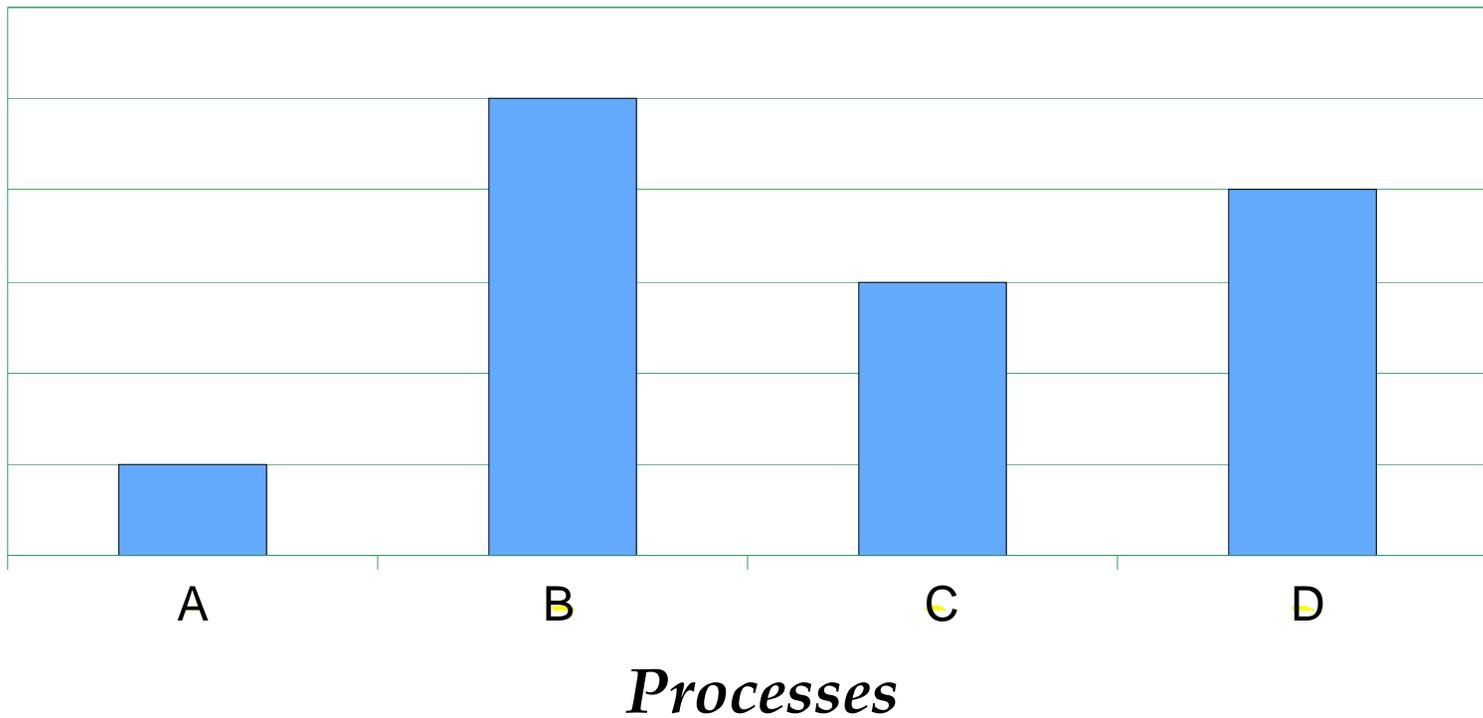
The odor from the ‘port’ I selected smells like something.”

Math happens next ...

- ❖ Five assessors observe the sample twice
- ❖ All ten results are averaged
- ❖ Report is prepared

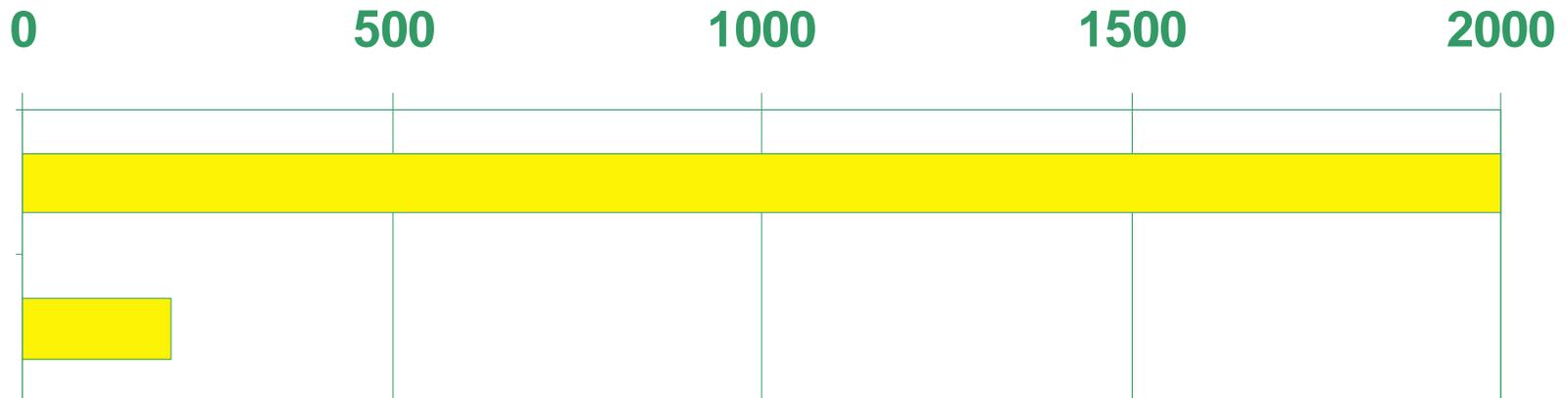
Odor Testing of Processes

Detection Thresholds - "Odor Units"



Verify Odor Control Performance Guarantee

Inlet & Outlet of Control Device - "Odor Units"



90 % odor removal

Questions/Comments?