



OSAC Research Needs Assessment Form

Title of research need: Evaluation of dissipation of odorant

Keywords: Dissipation, odor, canine

Submitting subcommittee(s): Dogs and Sensors **Date Approved:**

(If SAC review identifies additional subcommittees, add them to the box above.)

Background information:

1. Description of research need:

Research is needed to understand the dissipation/permeation rates of various odors that originate from canine training aids. Currently odorants dissipate from canine training aids at unknown rates, this results in canines being exposed to aids without knowing if the aid is in fact releasing sufficient odor before, during or after use under various environmental conditions.

2. Key bibliographic references relating to this research need:

None found

3a. In what ways would the research results improve current laboratory capabilities?

Research would inform the practices used by law enforcement to perform active searches of clandestine materials in the field.

3b. In what ways would the research results improve understanding of the scientific basis for the subcommittee(s)?

The research would improve understanding of the subcommittee to create superior best practice standard documents used by the canine community.

3c. In what ways would the research results improve services to the criminal justice system?

The improved best practice standards will result in superior canine performance, resulting in a law enforcement tool that is more accurate and reliable.

4. Status assessment (I, II, III, or IV): I

	Major gap in current knowledge	Minor gap in current knowledge
No or limited current research is being conducted	I	III
Existing current research is being conducted	II	IV

This research need has been identified by one or more subcommittees of OSAC and is being provided as an informational resource to the community.

Subcommittee

Approval date:

(Approval is by majority vote of subcommittee. Once approved, forward to SAC.)

SAC

1. Does the SAC agree with the research need? Yes No

2. Does the SAC agree with the status assessment? Yes No

If no, what is the status assessment of the SAC:

Approval date:

(Approval is by majority vote of SAC. Once approved, forward to NIST for posting.)