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7 8 9	UNITED STATES DISTRICT COURT CENTRAL DISTRICT OF CALIFORNIA				
10	UNITED STATES OF AI	MERICA,)	Case No.	CR 14-642-0	ЗW
1	Plaintiff	Ş	SUPPLEN	MENT TO D	EFENDANT'S
2	v. (UNDER DAUBERT V. MERRELL		
3	ORGE SOLORIO-MENDOZA	DOZA {) WARREN JAMES WOODFORD,) PH D		
4	Defendant.) Date: November 10, 2015		
15 16		}	Time: 9:00 Place: Cou Geo	0 a.m. urtroom of th orge Wu	e Hon.
7 8	Attached herewith	is the declarat	ion of Warren J	ames Woodf	ford, Ph.D.

Attached herewith is the declaration of warren James Woodford, Ph.D. (Woodford Declaration), a forensic chemist who has worked for more than 30 years in the field of odor detection. Dr. Woodford is an expert on chemistry, olfaction and training animals to detect odors. Woodford Declaration at \P 1. In his declaration, Dr. Woodford reviews the pertinent methods for training dogs to assure reliability and finds that no established protocols or training techniques were employed with respect to Charlie, the dog that allegedly alerted in this case.

While courts have long accepted the probative value of dog alerts, this has been based on the assumption that "the canine detects only contraband." Woodford Declaration at ¶ 4 (quoting *United States v. Beale,* 674 F.2d 1327 (9th Cir. 1982)). Contrary to this belief, Dr. Woodford has discovered and patented the chemical, methyl benzoate, to which dogs actually alert as the odor of cocaine.
 Woodford Declaration at ¶ 2. This research has become so widely accepted that
 police departments widely use methyl benzoate to train dogs for coaine detection.
 In the case of methamphetamine, the detected odor is actually that of
 benzaldehyde. Benzaldehyde is contained in various common products, such as
 shaving cream, soaps, and hair sprays. Woodford Declaration at ¶ 9.

Rather than training dogs on actual drugs, the standard for training drug
detection dogs has been through the use of chemicals, like methyl benzoate and
benzadehyde that are also found in many non-contraband items. Woodford
Declaration at ¶ 2. There is no standardized dog, and dogs used for narcotics
detection have different capabilities and vastly different sensitivities to odor.
Some alert to air bourne parts per million while others react to parts per trillion.
Woodford Declaration at ¶ 10.

The actual science behind dog alerts demonstrates that there is a great deal 14 to be considered in the context of a *Daubert* hearing. As the Court's tentative 15 ruling sets forth, the courts have generally focused on the reliability of a given dog 16 17 based almost exclusively on the lay testimony of the dog's handler and the dog's training records. Such evidence says absolutely nothing about how a given dog 18 19 came to make an alert and whether the alert should be accepted as evidence. To be 20 admissible under *Daubert*, the Court must make a preliminary assessment of whether the underlying reasoning or methodology for scientific evidence is valid 21 and can properly be applied to the facts at issue. *Daubert v. Merrell Dow*, 509 22 23 U.S. 579, 592-593 (1993). To resolved this inquiry, the party offering the evidence must establish at least five factors: 24

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 The theory or technique can be (and has been) tested; here that would mean that it must be clear that there is a sufficient scientific basis to find that a dog alert indicates the presence of drugs;

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2) The scientific hypotheses and conclusions must be based on peer

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review and publication so that the court can assess the assumptions underlying the proffered evidence and what the margin of error is;

3) The proffered evidence has a known or potential error rate; to be meaningful the error rate must be tested in the field as well as in the laboratory;

4) There must be standards for maintaining and controlling its operation and such standards must have been clearly established, subject to a known protocol and carefully adhered to in a given case; it must be shown that dogs, like other detection devices, have been carefully calibrated to produce meaningful results;

5) The theory or technique must have widespread acceptance in the
relevant scientific community; courts themselves are not a scientific
community, and assumptions made at an earlier time, without the benefit of
scientific evidence, such as that dogs detects only contraband, *e.g.*, *Beale*,
674 F.2d 1327, are subject to being revisited in light of further scientific
evidence.

17 Daubert, 509 U.S. at 593-595.

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It thus must be shown that there is empirical support for the conclusions of 18 the party offering the evidence and that there is a lack of a scientific basis to refute 19 it. United States v. \$30,670, 403 F.3d 448, 460 (7th Cir. 2005). In upholding the 20 use of a drug-detecting canine in *Beale*, 674 F.2d at 1334, the Court assumed that 21 the use of dogs "is distinguishable from all other search activities in that there is 22 23 no risk that an innocent person's privacy will be intruded upon." Not only does Dr. Woodford's well accepted research refute this, in that dogs are trained to alert 24 to odors found in many other non-contraband substances, the haphazard 25 techniques and lack of methodology exhibited in the present case provide no 26 27 reason to find that Charlie, the dog in this case, was trained to the standards that 28 even the *Beale* court anticipated. Because dog handlers report their dog's error

rates, there is no way to determine the accuracy of these records. Woodford
 Declaration at ¶13(a).

3 Moreover, training logs are only meaningful if they show more than a dog's mere success rate when presented with a controlled substance. As Dr. Woodford 4 explains, scientific literature, including his own, identifies at least six key 5 elements to training narcotics dogs. The first is "proofing," assuring that dogs are 6 actually trained to alert to narcotics, as opposed to packaging or materials used to 7 construct a training aid. Woodford Declaration at $\P 13(c)(1)$. The dog must not 8 confuse the target odor with an irrelevant one. So that dogs do not alert to stale 9 scents from narcotics long removed from a location, it is also essential that dog's 10 receive "extinction training" so that they are likely to only alert to a substance that 11 is actually present. Woodford Declaration at $\P 13(c)(2)$. 12

13 Because of the odor to which dogs alert, benzaldeyde, in the case of methamphetamine, records should show that the training also included, "odor 14 discrimination," teaching the dog to distinguish between methamphetamine and 15 the non-methamphetamine odor of benzaldehyde. Woodford Declaration at ¶ 16 13(d)(1). A corollary to this is "odor generalization" where a dog starts to react to 17 items that have a similar odor to benzaldehyde. Training records should reflect 18 that a dog was tested for "odor generalization" and was redirected to the correct 19 odor. Woodford Declaration at $\P 13(d)(2)$. 20

Further, training should reflect that efforts were made to eliminate or
minimize "cuing" and "handlers' beliefs." "Cuing' occurs by way of subtle signs
dog picks up from its handler signaling it to alert." Woodford Declaration at ¶
13(e)(1). Dog's have also been shown to be sensitive to their "handlers' beliefs"
that drugs may be present. Training should show that efforts were taken to make
certain that a dog's alert was made independently. Woodford Declaration at ¶
13(e)(2).

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Upon reviewing 142 pages of Charlie's training log sheets, Dr. Woodford

found little or no evidence that these training protocols had been adhered to,
 leading him to conclude "I find nothing that would give me confidence in
 'Charlie's' alert in this case." Woodford Declaration at ¶ 16.

In most of the records that Dr. Woodford reviewed, the proofing column
was blank. In fact, Dr. Woodford found only three examples of trainings in which
possibly relevant materials were used to proof Charlie. Doctor Woodford states,
"Three instances of proofing training with unidentified materials are insufficient."
Woodford Declaration at ¶ 18. Dr. Woodford found that where other items were
listed, they were "not at all helpful to proof a dog for training purposes."
Woodford Declaration at ¶ 19.

With respect to other training criteria, such as for "odor generalization" and
"odor discrimination," the records were devoid of evidence that such training had
taken place. The records also fail to disclose whether 'Queuing' or 'Handler
Belief contributed to the drug finds attributed to 'Charlie." Woodford Declaration
at ¶ 20.

In short, Dr. Woodford found that "Charlie's' training does not comply with
any scientific peer literature on the nature of drug detection by dogs." As Dr.
Woodford explains, "I have found no evidence that 'Charlie' was trained to these
standards or that appropriate methods were used to allow any confidence in his
purported drug detection." Woodford Declaration at ¶ 30.

Dr. Woodford also emphasizes the importance of maintaining field records.
While the Court quotes Detective Price as stating that he and Charlie have
conducted over 775 searches, the results of those searches are unknown other than
that Charlie's alerts were used as probable cause for six search warrants. From
this information, there is no way to know what Charlie's real-life error rate has
been or whether there are complete and accurate records of every time Charlie has
been deployed.

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Relying on Florida v. Harris, 133 S.Ct. 1050, 1057 (2013), this Court

explained that defendant may challenge evidence of a dog's reliability either by 1 cross-examining the testifying officer or by introducing his own fact or expert 2 witness. The defendant has clearly presented an expert, Dr. Woodford, who 3 meets the criteria of being an expert capable of explaining whether Charlie's 4 training records establish that he meets the scientific standard for reliability. 5 Based upon Dr. Woodford's conclusion, there appears to be no evidence that 6 Charlie's training met any of these criteria. 7 8

CONCLUSION

9 For the foregoing reasons, defendant requests that this court hold a hearing and find that Charlie's training is not based on underlying scientific reasoning and 10 11 methodology that would make it possible to consider his alleged alert to 12 defendant's car to be valid and reliable. *Daubert*, 509 U.S. at 592-593. 13 DATED: October 26, 2015 Respectfully submitted, 14 /s/Victor Sherman 15 16 By: VICTOR SHERMAN 17 Attorney for Defendant JORGE SOLORIO-MENDOZA 18 19 20 21 22 23 24 25 26 27 28 6