

SBIR 06.2 PHASE I - AWARD DETAILS	
ORGANIZATION	MPMC
TOPIC NUMBER	A06-159
CONTRACT NUMBER	
YEAR OF AWARD	
AWARD START DATE	
AWARD COMPLETION DATE	
PROPOSAL NUMBER	A062-159-3378
TITLE	Rapid Detection of Acetylcholinesterase-Inhibiting Pesticides in Water Using a Handheld Assay and Reader
PROJECT MANAGER	Yli Vallejo (302) 283-1730 yli@anptinc.com
COMPANY	ANP Technologies, Inc. 824 Interchange Boulevard Newark DE 19711 Minority Owned: Yes Veteran Owned: No Number of Employees: 20
KEYWORDS	acetylcholinesterase, pesticide detection in water, rapid handheld assay
ABSTRACT	We propose that a comparative colorimetric assay be developed that will use a ticket of the same dimensions as the current ANP immunoassay tickets. This will allow the AChE test to be conducted using a similar workflow as the lateral flow immunoassay-based HHAs and be similarly read on the ANP reader to yield an unambiguous result independent of user judgment.
BENEFITS	The proposed rapid assay will allow military personnel to quickly identify the presence of a wide array of toxic chemicals in water samples, permitting appropriate precautions to be put in place, thus reducing exposure of soldiers to contaminated waters. This assay will have applications in the civilian world as a rapid test for the water treatment community, and as an environmental monitor for agricultural areas where the reliance on pesticides to control insect populations is required.