

ToxScreen Test – Homeland Security Applications

Safety and Effectiveness of Technology

The EPA Office of Research and Development published a state of the art (SOTA) review listing desired characteristics of Integrated Early Warning Systems:

Rapid Response – ToxScreen total time to results is 15 minutes. Rapid Response of the SOTA review is defined as 'less than 2 hours'.

<http://www.epa.gov/nhsrc/pubs/reportEWS120105.pdf>

Detection of a wide range of potential contaminants – ToxScreen has been used to test over 100 Common Compounds of Concern in Drinking Water.

Allows acquisition, maintenance and upgrades at an affordable cost – ToxScreen offers an affordable cost per test.

Require low skill and training – “An operator with little or no technical training could follow the manual instructions to analyze samples successfully”, quoted from ETV Joint Verification Statement on ToxScreen (see below).

Identify source of contaminant – ToxScreen luminometer is portable, allowing for detection at the source. The test discriminates between cationic heavy metals and metalloids and organic toxicants.

Demonstrate sufficient sensitivity – See ETV report link below.

Permit minimal false-positives/false-negatives – See above.

Robust and Rugged – ToxScreen can be used on site and by non-skilled personnel.

3rd Party Testing and Verification– ETV

<http://www.epa.gov/etv/verifications/vcenter1-27.html>

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Types Of Potential Terrorist Activity The Technology Is Intended To Counter.

The test can detect various chemicals that might be used by terrorists to contaminate water sources, such as : cyanide, arsenate, fluoroacetate, mercury, organophosphates, etc. The test can determine their presence on site within less than 30 minutes at their human lethal dose concentration (see ETV report).

For more details visit our web site at - <http://www.checklight.biz>

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