

03 OCT 1988

MEMORANDUM OF AGREEMENT
BETWEEN

U.S. ARMY, OFFICE OF THE SURGEON GENERAL
U.S. NAVY, NAVAL MEDICAL COMMAND
U.S. AIR FORCE, OFFICE OF THE SURGEON GENERAL

SUBJECT: Tri-Service Concurrence of Field Water Standards - Physical and Chemical Parameters

1. The undersigned agree that the recommended field water quality standards presented in the attached chart comprise the current Tri-Service position for the subject parameters. These values are based primarily upon QSTAG 245 and an extensive review compiled in Volumes 4 and 9 by Lawrence Livermore National Laboratories (LLNL -under contract with the Army). LLNL's recommended standards pertaining to Lindane and algal metabolites/by-products which were also included in the LLNL review are not considered to be warranted at this time. The information presented on Lindane does, however, support the need for a more comprehensive review of the entire class of pesticides in field drinking water. Several physical parameters which were not delineated by the LLNL review have been included in these revised standards. The values defined for pH and odor were assumed by LLNL during the computation of recommended criteria, while the revised standards for temperature mirrors the values recently agreed upon by the U.S. and Quadripartite authorities for the development of QSTAG 245.
2. The recommended field water quality standards are not based on field detection capabilities or treatment equipment efficiency. Instead, testing and treatment should conform to the proposed standards. Further delineation of the standards is necessary to determine which parameters should be monitored in the field, which should be monitored at echelons above the field environment, and which are important only for equipment design.
3. This agreement does not address standards for radiological substances, microbiological organisms, or chemical agents. Standards for these materials will be assessed once the recommended criteria and appropriate support documents have been presented by Lawrence Livermore National Laboratories and concurrence received by the Department of Defense Multiservice Steering Group.
4. The Tri-Service position regarding revised field water standards for physical and chemical parameters will be forwarded to STANAG members, along with copies of Volumes 4 and 9 of the LLNL effort, for review and comment. Subsequent submissions will be made for radiological substances, microbiological organisms, and chemical agents as they become available.


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3 Oct 88 (date)


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Attachment:

Chart of proposed revisions to Field Water Quality Standards

Field Water Quality Standards

Proposed Revisions

<u>Constituents (units)</u>	<u>Recommended Standards</u>		
	<u><7 days</u>	<u><1 year</u>	<u>15 I/d</u>
<u>Physical Properties:</u>			
Color (c.u.)	50	15	15
Odor (TON)	3	3	3
pH (pH Units)	5-9	5-9	5-9
Temperature (degrees C)	4-35	15-22	15-22
TDS (mg/l)	1000	1000	1000
Turbidity (NTU)	1	1	1
<u>Chemical Properties:</u>			
Arsenic (mg/l)	0.3	0.1	0.02
Chloride (mg/l)	600	600	600
Cyanide (mg/l)	6.0	2.0	2.0
Magnesium (mg/l)	100	100	30
Sulfate (mg/l)	300	300	100