

ENVIRONMENTAL WORK INSTRUCTION 3EN2.7

From: Chief Environmental Engineer

To: All Environmental Personnel and Contractors

Subj: PROCEDURAL GUIDANCE FOR STATISTICALLY ANALYZING
ENVIRONMENTAL BACKGROUND

Ref: (a) SWDIV and EFA-West, "Procedural Guidance for Statistically Analyzing
Environmental Background Data", September 1998

http://erb.nfesc.navy.mil/erb_a/restoration/analysis/procguid.pdf

(b) SWDIV and EFA-West, "Handbook for Statistical Analysis of Environmental
Background Data", July 1999

http://erb.nfesc.navy.mil/erb_a/restoration/analysis/hndbk-sw.pdf

1. PURPOSE: This work instruction provides the procedural guidance for conducting environmental background statistical analyses at SWDIV.

2. CANCELLATION: SWDIV EWI #4EN.7 dated 7 DEC 99

3. DISCUSSION: Establishing background conditions is a preliminary step in the process of identifying contaminants of potential concern (COPC) for human health and ecological risk assessment. Background data is vital in selecting cost-effective remedial alternatives and setting reasonable and attainable remediation target goals. The analytical approach promulgated by this policy and the references is based on widely used statistical methods that yield verifiable results.

When a background analysis is carefully planned and implemented according to this work instruction, uncertainty in all related Navy investigations and cleanup actions will be reduced. SWDIV will implement this work instruction at all installations to promote consistency throughout the Navy's Installation Restoration Program (IRP) and other compliance related programs. Older projects need to be compliant to the extent practical. When new evaluations of old data need to be conducted, these documents will help to work around the issues associated with the development of threshold values. New projects should be completely compliant. Using this approach will increase public and regulatory confidence in Navy cleanup activities. This work instruction is consistent with environmental laws, regulations, and U.S. Environmental Protection Agency (EPA) technical guidance.

4. APPLICABILITY: This work instruction is applicable to all SWDIV Installation Restoration Programs (IRP) funded by Environmental Restoration, Navy (ER,N) or Base Realignment and Closure (BRAC) accounts.

5. PROCEDURE:

Please refer to References 1 and 2. These references are available from the web addresses given above.

POC for additional information: M. Pound, X2-2546

(signed)
WALTER F. SANDZA