



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-013

REPORT NO.: 93-17

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SURVEILLANCE SCOPE: Focused QA surveillance to check the Geochemistry Lab maintenance of solutions and chemicals on the shelf in Building 57 on the SwRI grounds.

REFERENCE DOCUMENTS: CQAM Section 8, 8.3.4, Limited Shelf Life Items, and the Surveillance Control Procedure, Sections 3.3 and 3.4.

STARTING DATE: 12/30/93

ENDING DATE: 12/30/93

QA REPRESENTATIVE: B. Mabrito

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Mike Almendarez and Paul Bertetti.

SATISFACTORY FINDINGS: Twenty-one (21) different solutions in various bottles were checked in one of the Geochemistry Lab cabinets in the CNWRA (Bldg. 57) Lab were checked. Eight (8) additional bottles of solution in the cabinet were clearly identified as "Expired - Do Not Use" which is a good practice. Of the 21 bottles checked, 17 had the expiration date on the container and there was no instance of an out-of-date (expired) solution in the cabinet. Of the solutions checked, some of the examples included: Cesium element in 2% nitric acid in water, expiration date 5/31/94; Silicon reference solution, exp. date Feb. 1994; Manganese reference solution, exp. date March 1994; 1000 ppm Uranium 2% nitric acid in water solution, exp. date 5/31/94; Buffer solution ph 10.00, exp. date April 1995; Iron reference solution, exp. date November 1994; Lead reference solution, exp. date November 1994; Calcium reference solution, exp. date October 1994; Zinc reference solution, exp. date June 1995; Copper reference solution, exp. date April 1994; Strontium reference solution, exp. date April 1995; Sodium reference solution, exp. date October 1995 (all were 500 ml containers).

UNSATISFACTORY FINDINGS: See Recommendations/Actions below.

NONCONFORMANCE REPORT NO.: None.

ATTACHMENTS: None.

RECOMMENDATIONS/ACTIONS: There were 4 bottles that did not have any expiration date and those had been prepared by B. Leslie on 10/2/91 (identified as 500 ml each of a Magnesium standard, Iron standard, Barium standard, and Manganese standard). It was explained by P. Bertetti that since the mix date was on the containers, the researcher using them will recognize the age of the solution and will take precautions. It is suggested that since B. Leslie has transferred to the Washington Technical Support Office and since it has been over two years since the solutions were prepared, a decision should be made by the PI or EM to determine whether it is appropriate to put an expiration date on these four containers of solution or to discard them properly. No NCR will be generated, provided action is taken by Dr. L. McKague/Dr. B. Pabalan/or other PI to establish an expiration date for the solutions, discard them, or provide adequate rationale to keep the solutions.

APPROVED: _____

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: _____

12/30/93

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR QA Records/Surv Rpts
ORIGINATOR B. Mabrito
PRINCIPAL INVESTIGATOR B. Pabalan
ELEMENT MANAGER L. McKague
B. Sagar
A. Chowdhury, R. Baca, P. Bertetti, E. Pearcy

[18] From: English Pearcy at CNWRA 1/13/94 8:12AM (736 bytes: 1 ln)
To: Bruce Mabrito at CNWRA-OS2
Receipt Requested
Subject: Surveillance Report 93-17

----- Message Contents -----

*Office - File with
Surveillance
Report 93-17
(staple to back of report)
Jew
1/13/94*

Bruce,

I appreciate your help with regard to the 4 bottles identified during your recent surveillance of the geochemistry lab.

After consultation with Paul Bertetti, Bobby Pabalan, and Jim Prikryl, I have modified the labelling of the bottles to bring them into accordance with TOP-012. The bottles now (as of 1/12/94) bear an expiration date assigned by me and attested by my initials. The solutions may be retained until that date or beyond that date if extension is determined to be appropriate at that time.

Thanks again.

English