



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-3704-013

REPORT NO.: 91-07

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SURVEILLANCE SCOPE: Review of equipment and Scientific Notebook Entries for
Cation Exchange Experiments

REFERENCE DOCUMENTS: QAP-001

STARTING DATE: 6/14/91

ENDING DATE: 6/14/91

QA REPRESENTATIVE: R.D. Brient *WDB*

PERSONS CONDUCTING TEST / EXAM / ACTIVITY:

R. Pabalan, P.I., T. Griffin, Student Scientist

SATISFACTORY FINDINGS:

See attached.

UNSATISFACTORY FINDINGS:

NONE

NONCONFORMANCE REPORT NO.:

NONE

ATTACHMENTS:

RECOMMENDATIONS / ACTIONS

See attached.

APPROVED: *B. Pabalan*

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: *6/14/91*

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR

ORIGINATOR

PRINCIPAL ENGINEER - B. Pabalan

ELEMENT MANAGER - *J. Russell*

J. Prikryl

WCP

SURVEILLANCE REPORT No. 91.-07

SATISFACTORY FINDINGS

1. Scientific Notebook # 020 (GC-04) entries for Clinoptilolite -Na+ exchange activities were reviewed. Initial entries documented the objectives, methods, equipment, reagents, and procedures. In-process entries described subsequent activities, observations, and measurement results. Reagent lot numbers were properly documented for solution preparation.
2. The notebook identified the shaker bath temperature as 90 degrees C, however, the temperature is not monitored by a calibrated instrument. Conversation with the P.I. indicated that temperature control is not critical, so monitoring was not necessary.
3. Minor deviations to QAP-001 were identified and corrected, such as, corrections not initialed and dated and blank portions of pages were not marked by diagonal lines.
4. Also corrected was the lack of specific sample identification in the initial entries (although the sample log documented the sample numbers).

RECOMMENDATIONS/ACTIONS

All entries in the Scientific Notebook were initialed, however, full names were not listed. Full names and initials of all individuals performing activities should be listed in the front pages of each notebook.