



189/147

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20.01402.871

REPORT NO.: 2002-10

PAGE 1 OF 1

**SURVEILLANCE SCOPE:** Surveillance Activities on the Radionuclide Transport Key Technical Issue (KTI)

**REFERENCE DOCUMENTS:** Quality Assurance Procedure QAP-002, Review of CNWRA Documents, Reports, and Papers; Quality Assurance Procedure QAP-004, Surveillance Control; Quality Assurance Procedure QAP-013, Quality Planning

**STARTING DATE:** April 11, 2002

**ENDING DATE:** April 16, 2002

**QA REPRESENTATIVE:** Mark R. Ehnstrom *MRE*

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** Paul Bertetti

**SATISFACTORY FINDINGS:**

On April 11, 2002 surveillance activities were performed on Radionuclide Transport (RT) KTI activities. Discussions were held with Paul Bertetti and past, present, and future activities were discussed.

The RT KTI surveillance discussion addressed a number of issues. For example, the computer software being used for RT includes EQ3/6 and MINTEQA2 Versions 3 & 4. Both of these programs appear on the list of controlled scientific and engineering software used by the CNWRA. The use of critical equipment was discussed. Many of the equipment pieces used in the laboratory are "calibrate before use" (i.e. the Atomic Absorption Spectrometer and the Liquid Scintillation Analyzer), the exceptions are balances which are calibrated and certified by the Southwest Research Institute (SwRI) Calibration Laboratory. When the use of radioactive source materials are required, source materials purchased from Isotope Products Laboratory are used. This company is on the SwRI Approved Suppliers List. At the present time work is being performed in the RT area for a report due in May 2002 with the final report due in June 2002. Scientific Notebooks 456 and 463 document the activities of RT and were submitted during the semiannual recall of notebooks in March 2002. In the near future, the assistance of Dr. Chen Zhu may be required. Dr Zhu's Professional Personnel Qualification record was reviewed and found to be acceptable. Indoctrination and training into the CNWRA quality program occurred in November 1999 and his last conflict of interest document is dated October 18, 2001. No other consultants are scheduled to be utilized.

**Reports Reviewed During This Surveillance**

QA Report Number Q200107130004, titled, Summary and Synthesis of Characterization Data Relevant to Radionuclide Transport through Alluvium in the Vicinity of Yucca Mountain, Nevada. This report was reviewed against the requirements contained in QAP-002 with no comment.

**UNSATISFACTORY FINDINGS:** None

**NONCONFORMANCE REPORT NO.:** None

**ATTACHMENTS:** None

**RECOMMENDATIONS/ACTIONS:** None

**APPROVED:** *[Signature]*  
CENTER DIRECTOR OF QUALITY ASSURANCE

**DATE:** 4/17/2002

**DISTRIBUTION:**

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ORIGINATOR

PRINCIPAL INVESTIGATOR: P. Bertetti

ALL ELEMENT MANAGERS

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