

Statement of Work

Kelly Bradbury (Student Technical Assistant to Dr. James P. Evans)

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The work to be accomplished under this consulting agreement will consist of field and laboratory measurements and observations to evaluate spatial and scale variability important for estimating hydrologic properties in fractured and faulted nonwelded to moderately welded tuffs at Yucca Mountain and any appropriate analog site (e.g., the nonwelded Bishop Tuff near Bishop, CA).

STATEMENT OF WORK: Ms. Bradbury's work will be funded under the USFIC KTI phase of CNWRA work for the U.S. Nuclear Regulatory Commission High-Level Waste Program. Ms. Bradbury's contributions to USFIC efforts are divided into four separate tasks, described below.

- Task 1. Ms. Bradbury will continue work already in progress by documenting the results of structural analyses conducted at Chalk Cove, Bishop, California. Ms. Bradbury is to immediately begin writing portions of a manuscript for a peer-reviewed journal article. The bulk of the effort for this task will be to complete and document all analyses that lead to interpretations of air permeability data in terms of structural controls. The estimated level of effort to complete this work is 400 hours.
- Task 2. Ms. Bradbury will continue work already in progress by documenting the results of structural analyses conducted at Crucifix/Conjugate Faults, Bishop, California. Upon completion of the objectives outlined in Task 1, Ms. Bradbury will begin writing portions of a manuscript for a second peer-reviewed article. Again, the bulk of the effort for this task will be to complete and document all analyses that lead to interpretations of air permeability data in terms of structural controls. The estimated level of effort to complete this work is 400 hours.

These tasks fall under the auspices of the USFIC KTI, which is guided by James Winterle of CNWRA staff. As in the past, Ms. Bradbury's assistance will likely be needed in other aspects of the work at the Bishop Tuff natural analog. Such additional work may include, and is not limited to, conference preparation and participation, structural geology field assistance, geophysical field assistance, and GIS.