Weldon Spring Quarry Environmental Monitoring Investigations Sampling Plan: Addendum 1

080534

MK-FERGUSON
A MORRISON KNUDSEN COMPANY

Weldon Spring Site Remedial Action Project
Contract No. DE-AC05-86OR21548

Rev. No. 0

PLAN TITLE: Weldon Spring Quarry Environmental Monitoring Investigations Sampling Plan: Addendum 1

APPROVALS

ES&H Department Manager — Date: 8/9/94

Quality Assurance Manager — Date: 8-10-94

Project Director (or Deputy Project Director) — Date: 8/10/94

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ADDENDUM 1

The *Weldon Spring Quarry Environmental Monitoring Investigation Sampling Plan*, Revision 0, DOE/OR/21548/264, prepared by MK-Ferguson Company and Jacobs Engineering Group in August 1992 included a list of parameters to be analyzed during the in situ groundwater sampling effort. Because of the small quantity of sample volume expected from the sampling technique, the list was limited to those considered most beneficial to the environmental characterization. However, the sampling technique has been modified from the original sampling specification, making additional sample volume available for analysis and allowing for a more comprehensive characterization of the subject groundwater.

The additional parameters of interest will be analyzed using on-site analytical techniques, some involving vacuum reagents and a Hach-brand spectrophotometer. The additional parameters to be analyzed will include:

- Ferric/ferrous iron
- Nitrate/nitrite
- Total organic carbon

The samples will be analyzed on a daily basis according to the protocol detailed in the instrument's operating manual and the Weldon Spring Site Remedial Action Project procedures. These data will be interpreted for (1) their indication of the oxidation state of the in situ water being sampled, to aid in explaining the transport mechanisms and controls on uranium migration, and (2) to assist in the decision of monitoring well placement during the quarry residuals Remedial Investigation. Data will be summarized with those data specified in the original plan and a referenceable closure report will be generated upon completion of the task.