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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

DATE: May 10, 1993
IN REPLY REFER TO: EM-13:93-429
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2178 TA-21

Ms. Barbara Driscoll
RCRA Permits Branch
US Environmental Protection Agency
Region 6
1445 Ross Avenue
Suite 1200
Dallas, TX 75202-2733

THRU: Tracy Glatzmaier

Dear Ms. Driscoll:

We are currently planning sampling activities at DP Spring in DP Canyon in support of Operable Unit 1106 (TA-21) characterization activities. As you may recall, the scope of this activity was changed and approval obtained by your office (received 4/12/93). Enclosed is a list of the scheduled sampling activities. We are expecting to start sampling activities on Monday, May 24, 1993.

If you have any questions or concerns, please call me or Tracy Glatzmaier (505) 665-2613.

Sincerely,

Tracy Glatzmaier
for Gary Eller
Operable Unit Project Leader

TG/GE/vvm

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Enclosure: List of the Scheduled Sampling Activities

Cy: J. Shipley, EE-AETO, MS F641
A. Tiedman, ADO, MS A120
S. Slaten, DOE/LAAO, MS A316
K. Bitner, AFO-ERPO, MS A906
R. Harris, DOE-HQ, MS EM-452
T. Gunderson, EM-DO, MS J591
R. Vocke, EM-13, MS M992
L. Soholt, EM-13, MS M992
P. Aamodt, EM-13, MS M992
T. Glatzmaier, EES-5/EM-13, MS M992
P. Trujillo-Oviedo, PA-3/EM-13, MS P355
RPF, MS M707
CRM-4, MS A150

Benito Garcia
New Mexico Environment Dept.
525 Camino de los Marquez
Santa Fe, New Mexico 87502

Bruce Swanton
Hazardous & Radioactive
Materials Bureau
New Mexico Environmental Dept.
525 Camino de los Marquez
Santa Fe, New Mexico 87502

ATTACHMENT. **Revised analytical suite for DP-Spring Sampling. See footnotes 1-6 for detail. This table is to replace OU 1106 work plan Tables 12.5-VI and 12.6-I.**

Major Anions
Chloride (5)
Sulfate (5)
Fluoride (5)
Nitrate (5)
Nitrite (5)
Phosphate

Major Cations
Ammonium
Calcium (3)
Magnesium (3)
Potassium (3)
Sodium (3)

Radionuclides
Gross alpha
Gross beta
Radium-226 (4)
Thorium-230 (4)
Cesium-137
Strontium-90
Isotopic uranium
Isotopic plutonium

Other Parameters
Volatile organics (7)
Semivolatile organics (8)
Silica (4)
Dissolved organic carbon (4)

Field Measured Parameters
Temperature (2,4)
pH (2,4)
Specific conductance (2,4)
Alkalinity (2,4)
Dissolved oxygen (2,4)

Minor and Trace Constituents
Aluminum(3)
Antimony (3,4)
Arsenic (3,4)
Barium (3)
Beryllium (3)
Boron
Bromide (4)
Cadmium (3,4)
Chlorate (4)
Chromium (3)
Cobalt (3,4)
Copper (3,4)

Cyanide (4)
Iron (3)
Lead (3)
Lithium (3)
Manganese (3)
Mercury
Molybdenum (3)
Nickel (3)
Selenium (3)
Silver (3,4)
Strontium (3)
Thallium (3,4)
Vanadium (3,4)
Zinc (3)

Environmental Isotopes
Hydrogen/deuterium (4)
Oxygen-16/oxygen-18 (4)
Tritium (low-level) (2,4)

FOOTNOTES FOR ATTACHMENT TABLE

1) All measurements to be made quarterly, unless otherwise noted.

2) Measured monthly (when feasible) during the first year of investigation.

3) To be measured by EPA procedure SW-6010.

4) If these measurements are not found to indicate contamination after several regular sampling rounds, or are otherwise judged to uninformative, they may be dropped from the regular analytical suite.

5) To be measured by EPA method 300.

6) If not denoted above, the analytical methods to be used will be those specified in the approved OU 1106 RFI work plan.

7) To be measured by EPA method SW-8240.

8) To be measured by EPA method SW-8270.