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Date: **JAN 30 2013**
 Refer To: ENV-RCRA-13-0021
 LAUR: 13-20422

Mr. Jerry Schoeppner, Chief
 Ground Water Quality Bureau
 New Mexico Environment Department
 Harold Runnels Building, Room N2261
 1190 St. Francis Drive
 P.O. Box 26110
 Santa Fe, NM 87502

Dear Mr. Schoeppner:

SUBJECT: DISCHARGE PLAN DP-1132 QUARTERLY REPORT, FOURTH QUARTER 2012, TA-50 RADIOACTIVE LIQUID WASTE TREATMENT FACILITY

This letter from the U.S. Department of Energy and Los Alamos National Security LLC (DOE/LANS) is the fourth quarter 2012 Discharge Plan DP-1132 report for the Technical Area (TA)-50 Radioactive Liquid Waste Treatment Facility (RLWTF). Since the first quarter of 1999, DOE/LANS have provided the New Mexico Environment Department (NMED) with voluntary quarterly reports containing analytical results from effluent and groundwater monitoring.

During the fourth quarter of 2012, no effluent was discharged to either the National Pollutant Discharge Elimination System (NPDES) Outfall 051 or to the recently constructed solar evaporation tanks (SET) at Technical Area (TA)-52; all effluent was evaporated on-site at the effluent evaporator.

Quarterly Monitoring Results, Mortandad Canyon Alluvial Groundwater Wells

Table 1.0 presents the analytical results from sampling conducted at Mortandad Canyon alluvial well MCO-3 during the fourth quarter of 2012. No samples were collected from alluvial wells MCO-4B, MCO-6, and MCO-7 because there was insufficient water present. A sample from MCO-3 was submitted to GEL Laboratories LLC (GEL) for analysis. All of the analytical results were below the



New Mexico Water Quality Control Commission (NMWQCC) 3103 standards for nitrate-nitrogen (NO₃-N), fluoride (F), and total dissolved solids (TDS). Analytical results from the sampling of intermediate and regional aquifer wells in Mortandad Canyon can be accessed online at the Intellus New Mexico environmental monitoring data web site (<http://www.intellusnmdata.com>).

TA-50 RLWTF Effluent Monitoring Results

No final weekly composite (FWC) samples were collected during the fourth quarter of 2012 because no effluent was discharged to Mortandad Canyon.

No final monthly composite (FMC) samples were collected during the fourth quarter of 2012 because no effluent was discharged to Mortandad Canyon.

Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at bbeers@lanl.gov if you have questions regarding this report.

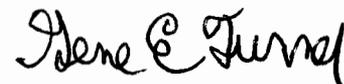
Sincerely,



Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security, LLC

AMD:GET:BB/lm

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Site Office
U.S. Department of Energy

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ENV-RCRA Correspondence File, K490

*Discharge Plan DP-1132 Quarterly Report
4th Quarter, 2012*

Table 1.0. Mortandad Canyon Alluvial Well Sampling, 4th Quarter, 2012.

Sampling Location	Sample Field Prep (F/UF) ¹	Sample Date	Perchlorate (ug/L)	NO ₃ +NO ₂ -N (mg/L)	TKN (mg/L)	NH ₃ -N (mg/L)	TDS (mg/L)	F (mg/L)
MCO-3	F	11/7/2012	1.66	0.99	0.29	0.13	406	0.36
MCO-4B	F	10/29/2012	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵
MCO-6	F	10/29/2012	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵
MCO-7	F	11/7/2012	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵
NM WQCC 3103 Groundwater Standards			NA²	10 mg/L³	NA²	NA²	1000 mg/L	1.6 mg/L

Notes:

¹All samples filtered.

²NA means that there is no NM WQCC 3103 standard for this analyte.

³The NM WQCC 3103 Groundwater Standard is for NO₃-N.

⁴Ice means that ice and snow blocked safe access to the well.

⁵Dry means that there was insufficient water in the well for sampling.

J- means that the reported value is expected to be more uncertain than usual with a potential negative bias.

J+ means that the reported value is expected to be more uncertain than usual with a potential positive bias.

J means the reported value is greater than the Method Detection Limit (MDL) but less than the Reporting Limit (RL).