

Los Alamos

NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: June 16, 1997
In Reply Refer To: ESH-18/WQ&H-97-0176
Mail Stop: K497
Telephone: (505) 665-1859

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Loole

LANL Permit

Mr. Thomas Todd
Area Manager
U.S. Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

Mr. Ken Zamora
Assistant Area Manager
Office of Facility Operations
U.S. Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

**SUBJECT: RADIOACTIVE WASTEWATER QUALITY AT NPDES
OUTFALL 051, TA-50, BUILDING 1, APRIL 1997**

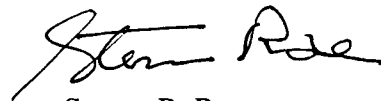
Dear Messrs. Todd and Zamora:

Enclosed is the monthly monitoring report pertaining to NPDES Outfall 051 for radioactive effluent quality data, as requested by DOE/LAAO. This report includes the monthly value (monthly average) compared with the DOE Derived Concentration Guidelines (DCG) value for each parameter analyzed. The monthly values are equal composites of all discharges that occurred during the month. Please note, this report also includes radioactive influent data for the TA-50 Treatment Facility and percent removal.

There were a total of 30 releases (1,581,166 liters) to Mortandad Canyon during the monitoring period from the TA-50 Treatment Facility. The DCGs were exceeded for Plutonium 238 (Pu₂₃₈), and Americium 241 (Am₂₄₁) during the monitoring period.

Please contact me at 665-1859 or Mike Saladen at 665-6085 if you have any questions or need additional information.

Sincerely,



Steven R. Rae
Group Leader
Water Quality and Hydrology Group

SR:MS/rj



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Thomas Todd/Ken Zamora
ESH-18/WQ&H-97-0176

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June 16, 1997

Enclosures: a/s

Cy: D. Erickson, ESH-DO/DD, w/enc., MS K491
M. Saladen, ESH-18, w/enc., MS K497
S. Hanson, CST-13, w/enc., MS E518
D. Moss, CST-13, w/enc., MS E518
B. Koch, DOE/LAAO, w/enc., MS A316
N. Weber, NMED/DOE OB, Santa Fe, New Mexico, w/enc.
WQ&H File, w/enc., MS K497
CRM-4, w/enc., MS A150

R E C E I V E D

JUN 23 1997

DOE OVERSIGHT BUREAU

TA-50-1 EFFLUENT DISCHARGE and % REMOVAL APRIL, 1997

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	DATE	INFLUENT	EFFLUENT	%REMOVAL	EXCEEDED DCG
TRITIUM					
DOE Derived Concentration Guidelines				2.E-03 (uCi/ml)	2.0 E-6 (Ci/L)
M TRITIUM	30-APR-97		1.200E-07		
Sr-89					
DOE Derived Concentration Guidelines				2.E-05 (uCi/ml)	20.0 E-9 (Ci/L)
M Sr-89	30-APR-97	5.000E-11	3.000E-11	40.0 %	
Sr-90					
DOE Derived Concentration Guidelines				1.E-06 (uCi/ml)	1.0 E-9 (Ci/L)
M Sr-90	30-APR-97	4.000E-12	3.000E-12	25.0 %	
Cs-137					
DOE Derived Concentration Guidelines				3.E-06 (uCi/ml)	3.0 E-9 (Ci/L)
M Cs-137	30-APR-97	2.000E-10	2.000E-10	0.0 %	
U-235					
DOE Derived Concentration Guidelines				5.E-06 (uCi/ml)	5.0 E-9 (Ci/L)
M U-235	30-APR-97	2.000E-10	3.000E-13	99.9 %	
Pu-238					
DOE Derived Concentration Guidelines				4.E-08 (uCi/ml)	40.0 E-12 (Ci/L)
M Pu-238	30-APR-97	2.100E-08	8.000E-11	99.6 %	X
Pu-239					
DOE Derived Concentration Guidelines				3.E-08 (uCi/ml)	30.0 E-12 (Ci/L)
M Pu-239	30-APR-97	5.500E-09	2.700E-11	99.5 %	
Am-241					
DOE Derived Concentration Guidelines				3.E-08 (uCi/ml)	30.0 E-12 (Ci/L)
M Am-241	30-APR-97	1.100E-08	1.500E-10	98.6 %	X

Effluent discharges APRIL, 1997 = 30
Total liters discharged = 1581166