

Los Alamos

NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: May 27, 1998
In Reply Refer To: ESH-18/WQ&H:98-0188
Mail Stop: K497
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LANL (TA-50) *Ransmint*

Mr. C.S. Przyblylek
Acting 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, MARCH 1998**

Dear Messrs. Przyblylek 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 20 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

LAOIL / Ken Hosoda / RAA



Thomas Todd/Ken Zamora
ESH-18/WQ&H:98-0188

-2-

May 27, 1998

SR:MS/rj

Enclosures: a/s

Cy: D. Erickson, ESH-DO/DD, w/enc., MS K491
M. Saladen, ESH-18, w/enc., MS K497
S. Hanson, EM-RLW, w/enc., MS E518
D. Moss, EM-RLW, w/enc., MS E518
D. Hall, EM-RLW, w/enc., MS E518
J. Plum, DOE/LAAO, w/enc., MS A316
J. Parker, NMED/DOE OB, Santa Fe, New Mexico, w/enc.
WQ&H File, w/enc., MS K497
CIC-10, w/enc., MS A150

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TA-50-1 EFFLUENT DISCHARGE and % REMOVAL MARCH, 1998

15-May-1998 01:17 PM

Page 1

	DATE	INFLUENT	EFFLUENT	%REMOVAL	EXCEEDED DCG
TRITIUM					
DOE Derived Concentration Guidelines 2.E-03 (uCi/ml) 2.0 E-6 (Ci/L)					
M	TRITIUM	31-MAR-98	2.900E-09		
Sr-89					
DOE Derived Concentration Guidelines 2.E-05 (uCi/ml) 20.0 E-9 (Ci/L)					
M	Sr-89	31-MAR-98	6.400E-10	1.400E-10	78.1 %
Sr-90					
DOE Derived Concentration Guidelines 1.E-06 (uCi/ml) 1.0 E-9 (Ci/L)					
M	Sr-90	31-MAR-98	1.800E-11	1.500E-11	16.7 %
Cs-137					
DOE Derived Concentration Guidelines 3.E-06 (uCi/ml) 3.0 E-9 (Ci/L)					
M	Cs-137	31-MAR-98	1.700E-10	1.500E-10	11.8 %
U-235					
DOE Derived Concentration Guidelines 5.E-06 (uCi/ml) 5.0 E-9 (Ci/L)					
M	U-235	31-MAR-98	6.400E-12	8.000E-13	87.5 %
Pu-238					
DOE Derived Concentration Guidelines 4.E-08 (uCi/ml) 40.0 E-12 (Ci/L)					
M	Pu-238	31-MAR-98	1.500E-09	6.000E-11	96.0 % X
Pu-239					
DOE Derived Concentration Guidelines 3.E-08 (uCi/ml) 30.0 E-12 (Ci/L)					
M	Pu-239	31-MAR-98	4.500E-09	2.200E-11	99.5 %
Am-241					
DOE Derived Concentration Guidelines 3.E-08 (uCi/ml) 30.0 E-12 (Ci/L)					
M	Am-241	31-MAR-98	1.700E-09	1.300E-10	92.4 % X

Effluent discharges MARCH, 1998 = 20
 Total liters discharged = 1581166