

Los Alamos
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Permit

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: November 23, 1999
In Reply Refer To: ESH-18/WQ&H:99-0447
Mail Stop: K497
Telephone: (505) 665-1859

LANL TH-50 NPDES

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

Mr. Joseph Vozella
Assistant Area Manager
Office of Environment
U.S. Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

**SUBJECT: RADIOACTIVE EFFLUENT QUALITY AT NPDES OUTFALL 051,
TA-50, BUILDING 1, SEPTEMBER, 1999**

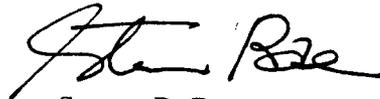
Dear Messrs. Gurule and Vozella:

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 (1,739,282.8 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/rm

Enclosures: a/s

- Cy: J. Parker, NMED/DOE OB, Santa Fe, New Mexico, w/enc.
- T. Gunderson, DIR, w/enc., MS A100
- A. Stanford, FWO-DO/DD, w/enc., MS K492
- D. McLain, FWO-RLW, w/enc., MS J595
- D. Moss, FWO-RLW, w/enc., MS E518
- D. Hall, FWO-RLW, w/enc., MS E518
- D. Erickson, ESH-DO/DD, w/enc., MS K491
- M. Saladen, ESH-18, w/enc., MS K497
- WQ&H File, w/enc., MS K497
- CIC-10, w/enc., MS A150

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LANL Non-HSUA Regulatory NPDES

TA50 -1 EFFLUENT DISCHARGE & REMOVAL for SEPTEMBER, 1999

Issued 17 Nov 1999 1:06:38 p.m.

Species	Guideline as (uCi/ml)	Guideline as (Ci/L)	Effluent (Ci/L)	Exceeded	Influent (Ci/L)	% Removal
Sr-89	2.0e-5	20.0e-9	80.0e-12		67.0e-12	
Sr-90	1.0e-6	1.0e-9	83.0e-12		70.0e-12	
TRITIUM	0.002	2.0e-6	30.0e-9			
U-234	5.0e-7	500.0e-12	7.5e-12		1.2e-9	99.375
U-235	5.0e-6	5.0e-9	0.7e-12		500.0e-12	99.86
Cs-137	3.0e-6	3.0e-9	150.0e-12		130.0e-12	
Pu-238	4.0e-8	40.0e-12	51.0e-12	Yes	20.0e-9	99.745
Pu-239	3.0e-8	30.0e-12	28.0e-12		27.0e-9	99.896
Am-241	3.0e-8	30.0e-12	44.0e-12	Yes	18.0e-9	99.756

30.0 discharges in SEPTEMBER, 1999

1,739,282.8 liters (volume) discharged