



Department of Energy  
Albuquerque Operations  
Los Alamos Area Office  
Los Alamos, New Mexico 87544

TA 35 125  
85 SL

difficulty locating  
all drains

Sample results

June 9, 1988

results: 6/21/88

AUG 18 1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

P508 856 917

Mr. Michael Burkhardt, Director  
Environmental Improvement Division  
P. O. Box 968  
Santa Fe, NM 87504-0968

Dear Mr. Burkhardt:

The Los Alamos National Laboratory (LANL) is conducting an aggressive program to upgrade storage systems and install containment around facilities containing petroleum products as required under the LANL Spill Prevention Control and Countermeasure (SPCC) Plan. Prior to the initiation of any upgrade activities, the systems are sampled to ensure that the facility has not inadvertently received hazardous waste from past operations.

Under this program, two surface impoundments located in Technical Area (TA)-35 were sampled. These two impoundments primarily receive oil resulting from equipment leaks or spills inside the building or on the bermed pad outside the building. The impoundments have also received natural runoff from the pad and other surrounding areas. When samples were collected and analyzed from these two impoundments prior to removal under the SPCC program, solvents were detected in both the liquid and sludge phases. Upon receipt of the preliminary analytical data, the user groups were instructed to discontinue use of all drains discharging to the impoundments. Most of the oil/solvent/water mixture in the ponds has been pumped from the units and stored or treated as hazardous waste. Because of continued precipitation and the difficulty encountered in identifying all drains discharging to the impoundments, some liquid is still present in the impoundments. However, LANL is in the process of removing all liquid as quickly as possible.

Oil in the associated equipment (e.g., pumps, tanks, and piping) has also been tested. No hazardous waste was found in any of the ancillary equipment. Therefore, it is believed that the most probable source of solvents in the impoundments was building cleaning operations that allowed discharge to the floor drains. Because this action makes the impoundments hazardous waste storage units, LANL will treat all materials from these impoundments as hazardous waste and plan to close these units as quickly as possible.

RECEIVED

NOV 3 1988

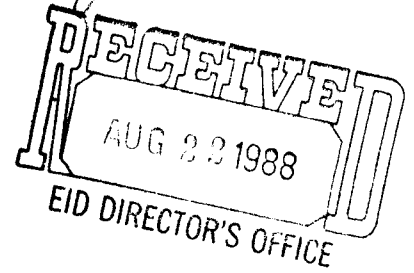
HAZARDOUS WASTE SECTION



5036



Department of Energy  
Albuquerque Operations  
Los Alamos Area Office  
Los Alamos, New Mexico 87544



AUG 18 1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Michael Burkhart, Director  
Environmental Improvement Division  
P. O. Box 968  
Santa Fe, NM 87504-0968

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Michael Burkhardt

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Based on the preliminary data, LANL personnel verbally notified the Hazardous Waste Bureau of the potential for hazardous waste in these units. This letter is to provide formal notification and final analytical data as given in enclosed Table 1. LANL has already initiated the preparation of closure plans for these units which will provide a more complete history of the ponds as well as more detailed information on findings and the proposed closure activities. We plan to submit these plans to you for approval within the next 60 days. Because of the nature of these impoundments, we would appreciate your expedited review so that we may remove these units as soon as possible.

Sincerely,

  
Harold E. Valencia  
Area Manager

8978A

Enclosure

cc w/enclosure:

J. Elvinger, Hazardous Waste Bureau, EID, Santa Fe, NM  
A. Tiedman, ADS, MS-A120  
J. Puckett, HSE-DO, MS-K491  
M. Martz Emerson (HSE8-88-442, 8/5), HSE-8, MS-K490

TABLE 1

## VOA ANALYTICAL DATA FOR THE OIL PITS AT TA-35 TSL-125 AND TSL-85.

## TSL-125 (SLUDGE)

2-Butanone	48.1	+/-	4.8	ppb	
1,1,1-TCA	151.2	+/-	15.1	ppb	
4-Methyl-2-Pentanone	20.0	+/-	20.0	ppb	
2-Hexanone	35.3	+/-	3.5	ppb	
Tetrachloroethene	89.4	+/-	8.9	ppb	
Xylenes	153.9	+/-	40.9	ppb	(total)
Acetone	< 200.0	+/-		ppb	(TIC)
1,2,2-Trifluoroethane	?			ppm	
Methylene Chloride	> MDL				(TIC)

## TSL-125 (WATER)

1,1-Dichloroethane	77.7	+/-	7.8	ppb	(TIC)
1,1,1-Trichloroethane	?			ppm	
Acetone	109.6	+/-	54.8	ppb	
2 unknown Halogenated hydrocarbons.					

## TSL-85 (WATER)

Methylene Chloride	> MDL				(TIC)
2-Butanone	> 200.0			ppb	
2-Hexanone	42.9	+/-	4.3	ppb	
Acetone	?			ppm	
1,2,2-Trifluoroethane	> 200.0			ppb	

## TSL-85 (SLUDGE)

Methylene Chloride	> MDL				(TIC)
2-Butanone	> 200.0			ppb	
2-Hexanone	42.8	+/-	4.3	ppb	
Acetone	?			ppm	
1,2,2-Trifluoroethane	?			ppm	

(TIC) = Tentatively Identified Compound. (80% confidence)