



RELEASE / DISCHARGE NOTIFICATION

LOS ALAMOS NATIONAL LABORATORY
Permit Number: NM0028355

Calendar Year

1999

NPDES or Operational Spill/Release
ER Spill/Release
Other Spill/Release

Indicate with "X" in appropriate box.

Release ID Number:
66

Responsible Facility/User Group: F-4

Contact Person: E. Hoth

Pager #: 996-1279

Phone #: 665-8002

Cell Phone #: NA

Release/Discharge Location:

This release of partially treated sanitary waste occurred at the TA-46 SWSC plant

TA: 46

Building: 158

If the release/discharge is associated with a NPDES Outfall, Potential Release Site (PRS) or Solid Waste Management Unit (SWMU), indicate the site/unit number and its relationship to the release/discharge:

NPDES Outfall:

PRS:

SWMU:

PRS/SWMU Number:

Indicate with "X" in appropriate box(es)

Relationship of the Discharge to a SWMU or PRS:

This release from the SWSC plant bypassed the 13S outfall. No SWMU or PRS impacted as reviewed on-site using the ER RFI for Operable Unit 1140.

Discharge Occurred: 3/24/1999 9:00 am
Date & Time

Discharge Discovered: 3/24/1999 9:00 am
Date & Time

Discharge Stopped: 3/24/1999 9:10 am
Date & Time

Cleanup Started: 3/24/1999 9:10 am
Date & Time

Cleanup Completed: 3/24/1999 2:30 pm
Date & Time

Material(s) Released / Discharged:

Approximately 10,000 to 20,000 gallons of partially treated sanitary waste and sludge.

Release/Discharge Mitigation Method:

The waste line valve was put in the correct (open) position which allowed the waste to be diverted back to the headworks of the SWSC Plant.

Weather Conditions:

Clear and cool

Duration of Release/ Discharge, in HOURS: 0.1

Est. Volume Released/ Discharged, in GAL: 20,000

Est. Volume Recovered, in GAL: 10,000

Corrective Actions Taken (ie, type of BMPs, etc):

The remaining sludge and water was removed by vacuum truck and by hand, much of the liquid soaked into the ground. The area was disinfected with a 1% CL2 and water solution. Additionally, SOP's for clarifier equalization and a checklist for this operation will be updated/developed. Additional SOP's for disinfection practices and the dumping of pump/vacuum trucks into the treatment works will be developed. These SOP's are believed to be ready in the next two weeks and will be transmitted to the NMED and EPA for review

Nearest Watercourse (Canyon Name)

Canada del Buey



HSWA LANL 3/1140/46

TK

Release Number 66.....page 2 of 2.

If the release/discharge reached a watercourse, describe the estimated surface area affected, presence of release/discharge now in the watercourse, and the media the release/discharge was detected in:

The release did enter a small tributary to Canada del Buey and flowed for approximately 250 yards. The flow did not reach Canada del Buey. Approximately 2200 sq. ft. of soil and rock surface was impacted.

Depth to Groundwater, in FT, if known: 1000

Distance to Nearest Drinking Water Well, in FT, if known: 3000 Well ID# PM-4

	Contact Person	Phone	Fax	Date & Time (or Comment)	
EPA:	E. Spencer	214-665-6475	214-665-6490	3/24/1999	3:34 pm (v-mail)
NMED/SWQB:	B. Hoditschek	827-0596	827-0160	3/25/1999	7:15 am
NMED/GWQB:	J. Jacobsen	827-2918	827-2965	3/25/1999	9:10 am (v-mail)
NMED/HRMB:	John Young	827-1557	827-1544	3/25/1999	9:16 am (v-mail)
NMED/DOE-OB:	S. Yanloak	672-0448	672-0466	3/25/1999	7:50 am (hand delive)
ESH-18:	H. Decker	665-2014	685-9344	3/24/1999	11:35 am
DOE:	Bob Enz	982-4038	982-8278	3/26/1999	by fax
OTHER:	D. Waitta	687-3766	665-4424	3/26/1999	by fax
OTHER:	Patricia Vadaro-Charles			3/24/1999	12:00 pm

Comments: This release occurred during the equilization of the clarifiers in order to transfer waste from one clarifier to the other. This operation is performed 4 to 6 times per year in order to clean one of the two clarifiers and is standard operations. In performing this task the plant operator failed to open the valve on the plant drain line which allows the waste water to enter the plant lift station and be pumped back to the headworks. Because this valve was closed the waste water and sludge backed up and overflowed onto the ground where it flow entered the tributary of Canada del Buey. This release was due to operator error.

Form Completed By: H. Decker

7 Day Notice 7 Day Notice Date: 3/31/1999 7 Day Notice By: H. Decker

Mark "X" when done.

Comments: The sludge and waste water was removed by vacuum truck and by hand and the affected area was disinfected. A follow up inspection was performed after disinfection on 3/26/99 at 1:00 pm. It appeared that the disinfection water did flow to the end of the discharge. This was evidenced by the area impacted being damp and additional flow evidence. The flow length has been re-estimated to be approximately 250 yards instead of 200. Additionally, erosion concerns at the storm water drainage below the plant will be addressed as requested by SWQB during the inspection of the release on 3/25/99. Also, samples for pH, CL and fecal coliform were collected. The pH of the water was 7.26 s.u. and the CL2 was measured at 0.1 ppm. The fecal results will be transmitted when received. Also provided with this report is the requested sludge data, and design drawings of the plant.

15 day Follow-up Due: 4/8/1999 15-day Follow-Up By: H. Decker

Comments:

NMED 30 Day Response Date:

Comments:

G. Thomas Todd, Area Manager
Los Alamos Area Office

Dennis J. Erickson, ESH Division Director
University of California

SWSC Daily Lab Worksheet

OPERATIONAL USE ONLY

Date: 3-24-99 Time collected: 0715-0740

Day: Wednesday Analyst: GA GUA MDS

RAW AND TREATED WATER			
Grab	pH*	7.57	7.48
Grab	Temp. C	17.4	17.5
Grab	Alkalinity	130	0820
Comp.	Alkalinity	196	142
Grab	Cl2 Free		0.75 0750
Grab	Cl2 Total		1.4
VC	TSS mg/l		
Comp.	COO mg/l		
Grab	TDS		
VC	Turbidity		
VC	TKN - N		
VC	organic-N		
VC	NH3 - N		
VC	NO2 - N		
VC	NO3 - N		
etc.	Total - N		

ACTIVATED SLUDGE			
etc.	SVI	203	
VC	TSS mg/l	3050	5870 0.745
Grab	VSS mg/l	2280	4420
etc.	% VSS	75%	73%
Grab	OUR		
Grab	R/R		
VC	NH3 - N		
VC	NO3 - N		

NOTES

OPERATIONAL MORNING ANALYSIS						
Grab	pH*	8.05	7.34	7.26	7.21	0820
Grab	Temp. C	17.2	17.5	17.4	17.5	"
Grab	Alkalinity	246	180	174	150	"
on	DO min.		8	6	5	
off	DO min.		27	19	30	
on / off	DO mg/l		4.18	3.18	3.18	
Meter	Temp. C		13.7	13.7	13.5	
Grab	OUR					
G/C	NH3 - N	22.6	7.03	4.33	-186	0950
G/C	NO3 - N		0.8	0.2	1.3	0910

OPERATIONAL AFTERNOON ANALYSIS						
on	DO min.					
off	DO min.					
on / off	DO mg/l					
Meter	Temp. C					
G/C	NH3 - N	29.1	9.52	4.59	0.14	1300
G/C	NO3 - N		2.7	1.8	2.2	1330

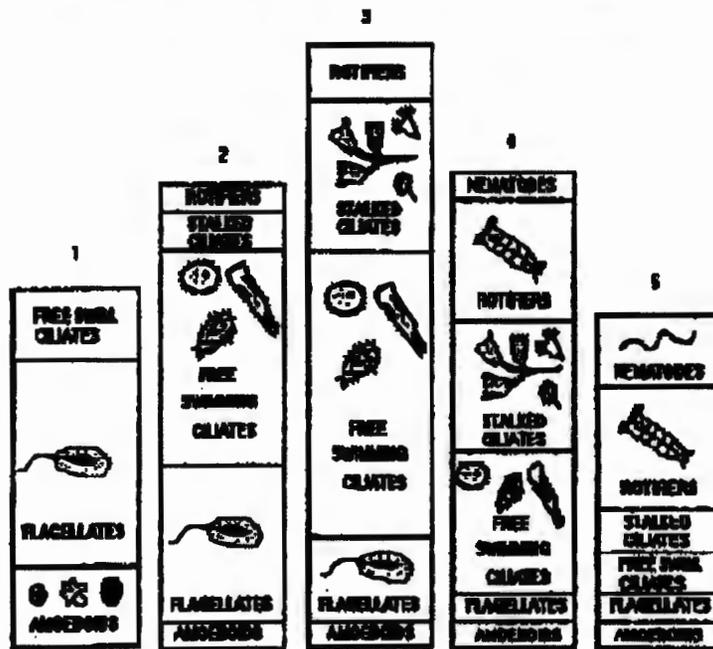
Morning Readings			
Aeration Blower		Loading	
blower #		EQ flow	
inlet valve		EQ NH3	
CFM		EQ lbs.	

Afternoon Readings			
Aeration Blower		Loading	
blower #		EQ flow	
inlet valve		EQ NH3	
CFM		EQ lbs.	

Settleometer	
SST (min)	SSV(ml)
0	1000
5	940
10	870
15	800
20	740
25	680
30	620
40	540
50	480
60	410

20 320

Microscopic Exam



Abundance

age activity
1 to 5 1 to 5

4-5	2
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Relative Prevalence

- 1 Rotifers
- 2 stalked
- 3 1-flagellates
- 4 no free swimmers

Revised 11/86



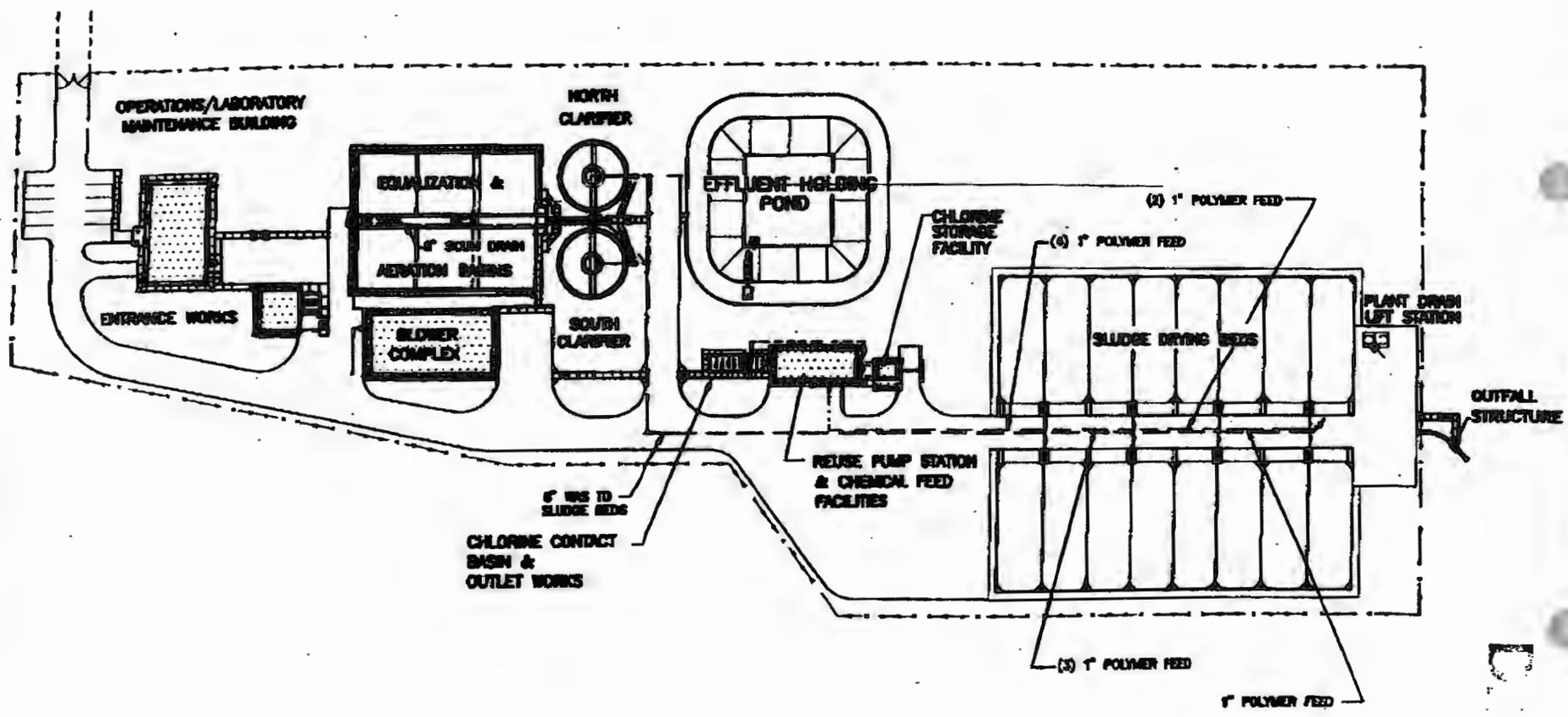
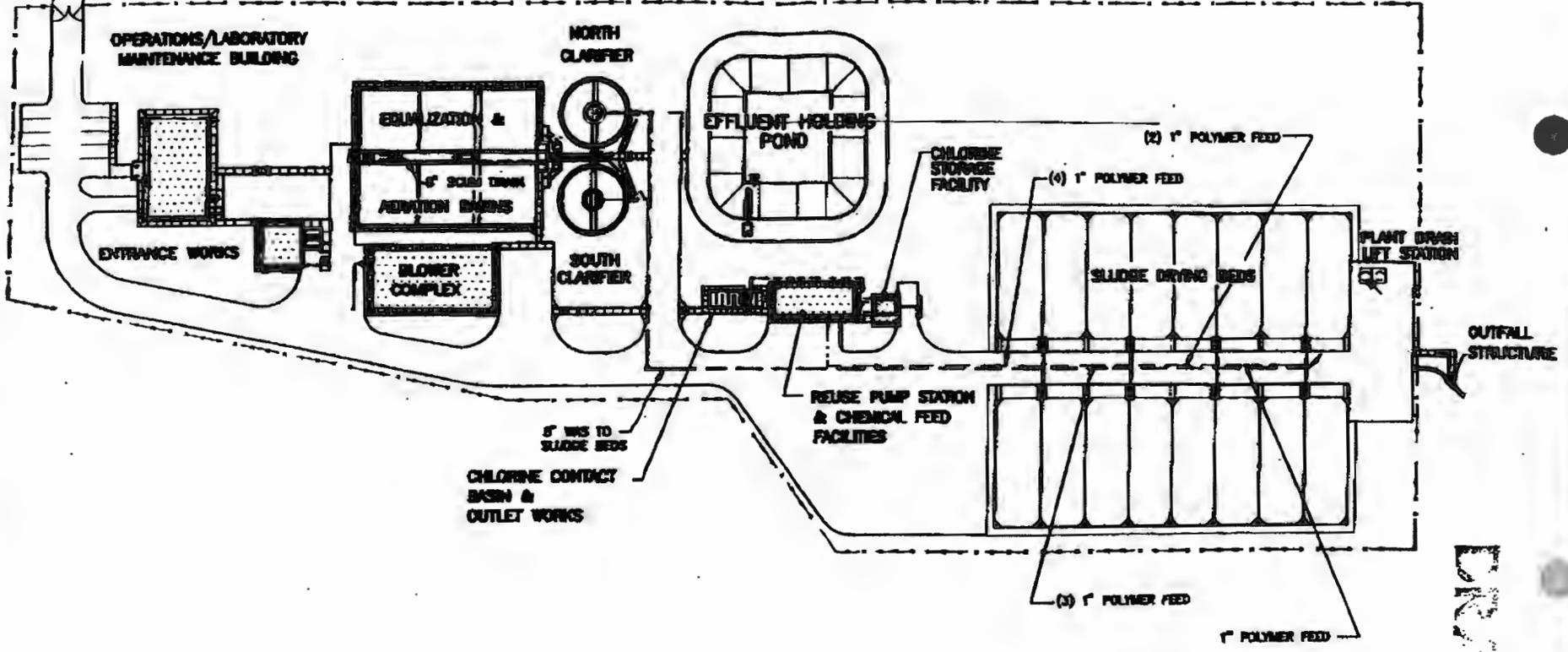


FIGURE 7.0-1
SOLID FLOW PATH
SITE PLAN

DRAM



DRAFT

FIGURE 7.0-1
SOLID FLOW PATH
SITE PLAN

PLANT DRAIN/WASTE LINE VALVING PROCEDURE

OPERATIONAL GUIDELINES

PURPOSE:

The plant drain and the waste line are valved so as to provide the operator with the ability to filter all drains through a designated drying bed prior to return to the head of the plant for additional process.

OPERATION:

During normal operation, DSV-10,(new), on the drain line system, and SBG-11 to Drying Bed #11 are to be left opened,and DSV-9 closed. (see Sections 6.14-1and 7.1-2 of SWSC OPERATION AND MAINTENANCE MANUAL). This valving arrangement will allow all OL&M drains to flow to the Plant Drain Lift Station and returned to head of the plant. Any flow through the waste line will back flow to the drying bed.

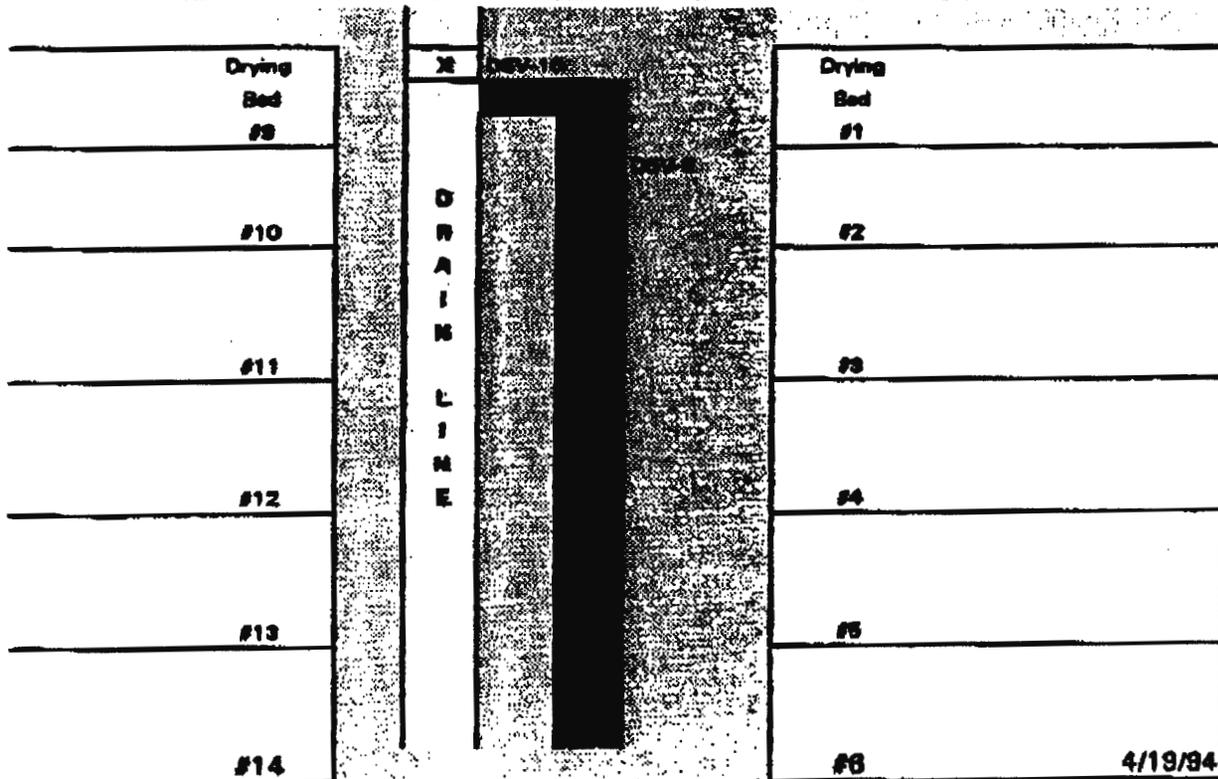
Wasting Operations From Clarifiers:

Close valve to bed #11, open sludge influent valve to the designated drying bed to be wasted to, until all sludge is removed from the vessel sludge is being wasted from. The remaining supernatant can than be filtered through Sludge Bed #11by reversing the valve positions on beds #11 and the bed wasted to.

Wasting, Draining, or Washdowns:

Whenever wasting from an Aeration Basin, close valve to bed # 11 and open valve to designated bed, close DSV-10 and open DSV-9. When sludge has lost its density, finish decanting to Bed #11. Drain the Holding Pond and the Chlorine Contact Chamber to bed #11by closing DSV-10, opening DSV-9 and the valve to drying bed #11.

RETURN ALL VALVING TO NORMAL OPERATION WHEN TASKS ARE COMPLETED



4/19/94

WATER QUALITY & HYDROLOGY GROUP (ESH-18)

FAX TRANSMITTAL SHEET

FAX #: (505) 665-9344

VERIFICATION #: (505) 665-0453

DATE: 3-26-99

LOG NO: ESH-18-99-FAX-

✓ TO: B. Hoditschek FAX #: (505) 827-0160 PHONE # (505) 827-0596 GRP ORG NMED/SWQB

✓ TO: S. Yanicak FAX #: (505) 672-0466 PHONE # (505) 672-04 GRP ORG NMED/AIP

✓ TO: Bob Enz FAX #: (505) 982-8278 PHONE # (505) 982-4038 GRP ORG DOE/LAAO

✓ TO: Everett Spencer FAX #: (214) 665-6490 PHONE # (214) 665-6080 (214) 665-6475 GRP ORG EPA Region VI

- TO: Deb Woitte FAX #: (505) 665-4424 PHONE # (505) 667-3766 GRP ORG LC GEN

✓ TO: Patricia FAX #: (505) 665-6977 PHONE # (505) 665-0033 GRP ORG ESH-7

✓ TO: J. Jackson FAX #: (505) 827-2965 PHONE # (505) 827-2776 GRP ORG NMED/GWPB

- TO: John Young FAX #: () 827-1544 PHONE # () 827-1557 GRP ORG NMED/HRMB

TO: Ed Holt FAX #: () 5-6636 PHONE # () 5-6602 GRP ORG 7-4

FROM: Harvey Decker, ESH-18, MS K497 PHONE #: (505) 665-2014

MESSAGE: Release Notification 7 day for 3-24-99 SWS discharge

I have some digital pictures saved on my computer. If anyone wishes me to, I will attempt to send them to you. Just send me an e-mail note to HLD@LANL.gov requesting them along with your email address

NUMBER OF PAGES TO FOLLOW: 7

Thanks HLD

Cy: ESH-18 FAX FILE CRM-4, MS A150

GROUP LEADER/TEAM LEADER

H.D. Jones