

LANL



*Environmental Stewardship Division  
WATER QUALITY & HYDROLOGY GROUP, ENV-WQH  
FAX TRANSMITTAL SHEET*

**FAX #: (505) 665-9344**

**VERIFICATION #: (505) 665-0453**

DATE: 6/8/2005  
FROM: Mark Haagenstad

LOG NO: WQH-FAX-03-  
PHONE#: (505) 665-2014

Waudelle Strickley  
(Reference EPA Permit #:  
TO: 0028355)  
FAX #: (214) 665-2168

ORG: EPA  
PHONE #: (214) 665-7491

TO: Bret Lucas  
FAX #: (505) 827-0160

ORG: NMED-SWQB  
PHONE #: (505) 827-2933

TO: Chris Vick  
FAX #: (505) 827-2965

ORG: NMED-GWQB  
PHONE #: (505) 827-2900

TO: Steve Yanicak  
FAX #: (505) 672-0466

ORG: NMED/DOE-OB  
PHONE #: (505) 672-0448

TO: NMED-HWB  
FAX #: (505) 428-2567

ORG: NMED-HWB  
PHONE #: (505) 428-2525

TO: Gene Turner  
FAX #: (505) 665-4872

ORG: DOE-LA-AO  
PHONE #: (505) 667-5794

TO: Jerome Gonzales  
FAX #: (505) 665-6636

ORG: FM-UI  
PHONE #: (505) 665-2612



LANL TA-3 (3-013b), 3-012(b)-00, Sandia Canyon TA-3-22 Power Plant

TO: David Padilla  
FAX #: (505) 665-6636

ORG: FM-UI  
PHONE #: (505) 667-2408

TO: Dennis Romero  
FAX #: (505) 667-7316

ORG: KSL-AENV  
PHONE #: (505) 667-2014

TO: Alva Sisneros  
FAX #: (505) 665-6977

ORG: PS-7  
PHONE #: (505) 664-0666

MESSAGE: Attached you will find the 15-Day Release / Discharge Notification for a steam condensate release that occurred at TA-3-22. Contact Mark Haagenstad (665-2014 or 699-1733) if additional information would be helpful. Thanks...

NUMBER OF PAGES TO FOLLOW: 2

Cy: WQH Fax File

# RELEASE / DISCHARGE NOTIFICATION

LOS ALAMOS NATIONAL LABORATORY  
Permit Number: NM0028355

Calendar Year  
**2005**

NPDES or Operational Spill/Release <input type="checkbox"/>	} Indicate with "X" in appropriate box.	Release ID Number: <input type="text" value="144"/>
ER Spill/Release <input type="checkbox"/>		
Other Spill/Release <input checked="" type="checkbox"/>		

Responsible Facility/User Group: <input type="text" value="FM-UI"/>	
Contact Person: <input type="text" value="Dave Padilla"/>	Pager #: <input type="text" value="996-4583"/>
Phone #: <input type="text" value="7-2408"/>	Cell Phone #: <input type="text" value="699-2816"/>
Release/Discharge Location: TA: <input type="text" value="3"/> Building: <input type="text" value="22"/>	Boiler steam condensate originated from roof vent at TA-3-22 Power Plant. Steam condensate from boiler system ponded on the roof, flowed down the roof drainage system, and released to an area storm drain. The storm drain releases to Upper Sandia Canyon.

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:**

The release discharged to the south of Building TA-03-22, and potentially onto the location of consolidated unit 03-013(b)-00. Consolidated unit 03-012(b)-00 consists of two NPDES-permitted outfalls [SWMUs 03-012(b) and 03-045(b)], which are the same site; and 03-045(c) and a holding tank [former SWMU 03-014(a)]. The SWMUs relate to the TA-03 steam plant (Building TA-03-22). The outfalls discharge from TA-3-22 into a small tributary of Sandia Canyon.

Based on volume and rate of discharge (estimated at 0.5 gallons per minute) from Building TA-03-22, this release did not significantly impact this unit. Consolidated unit 03-012(b)-00 will be investigated by LANL in accordance with the requirements of the March 1, 2005 Compliance Order on Consent as part of the Upper Sandia Canyon Aggregate Area. An investigation work plan for this aggregate area must be submitted to NMED for approval.

Discharge Occurred: <input type="text" value="5/23/2005-8:00 a.m."/>	Discharge Discovered: <input type="text" value="5/23/2005-8:00 a.m."/>	Discharge Stopped: <input type="text" value="5/23/2005-2:00 p.m."/>
Cleanup Started: <input type="text" value="5/23/2005-8:30 a.m."/>	Cleanup Completed: <input type="text" value="5/23/2005 7:00 p.m."/>	

**Material(s) Released / Discharged:**

Steam condensate from the boiler system at the TA-3-22 Power Plant. Sampling of the water at the storm drain indicated a pH of 11.53. Boiler water consists of potable water and boiler treatment constituents: sodium bisulfite (25 ppm), sodium hydroxide (120 ppm), and di-sodium phosphate (50 ppm), amines (di-ethyl-ethanol-amine and morpholine [20 ppm]).

**Release/Discharge Mitigation Method:**

Immediately after discovering the release, Laboratory personnel placed collection buckets beneath the stormdrain to collect the water. Samples were taken of the water resulting in a pH of 11.53 and conductivity of 7230 micro ohms.

**Weather Conditions:**

Sunny and warm.

Duration of Release/Discharge, in HOURS: <input type="text" value="&gt;6"/>	Est. Volume Released/Discharged, in GAL. <input type="text" value="10"/>	Est. Volume Recovered, in GAL. <input type="text" value="0"/>
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**Corrective Actions Taken (ie, type of BMPs, etc):**

Until a more permanent operational correction can be made, the steam condensate from the roof vent has been diverted from the stormdrain to a floor sump inside building TA-3-22. The floor sump discharges to an environmental tank, where it is treated, and discharged out NPDES Outfall 001.

Nearest Watercourse (Canyon Name)

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

The water released into upper Sandia Canyon. No erosion was observed. The drainage channel appeared to be wet.

Depth to Groundwater, in FT, if known: ~1000

Distance to Nearest Drinking Water Well, in FT, if known: 13,750 Well ID# PM-5

**24-HOUR RELEASE/DISCHARGE NOTIFICATIONS**

	Contact Person	Phone	Fax	Date & Time (or Comment)	
EPA:	Weudalle Strickley	214 665-7491	214 665 2168	5/31/2005	7-Day Report
NMED/SWQB:	Bret Lucas	827-2913	827-0160	5/25/2005	24-hour verbal
NMED/GWQB:	Chris Vick	827-0078	827-2965	5/25/2005	24-hour verbal
NMED/HRMB:	Frank Rodarte	428-2510	428-2567	5/25/2005	24-hour verbal
NMED/DOE-OB:	Steve Yanicak	672-0478	672-0466	5/31/2005	7-Day Report
ENV-WQH:					
DOE:	Gene Turner	667-5714	505-665-4872	5/24/2005	24-hour verbal
OTHER:	Alva Sisneros	664-0818	665-8977		
OTHER:	Jerome Gonzales	665-2672	665-8636		

Comments: On 5/25/2005 at 8:30 a.m., the ENV-WQH personnel notified NMED-SWQB's Bret Lucas and Rich Powell. ENV-WQH's Mark Haagenstad notified NMED-HWB (voice message) and NMED-GWQB's Chris Vick (voice message) at 10:30 a.m. and 10:35 a.m. respectively.

Form Completed By: Mark Haagenstad

**7-DAY RELEASE/DISCHARGE ACTIONS**

7 Day Notice  7 Day Notice Date: 5/31/2005 7 Day Notice By: Mark Haagenstad  
 Mark "X" when done.

Comments: The Laboratory is assessing a more permanent solution to correcting the drainage system release.

**15-DAY RELEASE/DISCHARGE ACTIONS**

15 day Follow-up Due: 6/8/2005 15-day Follow-Up By: Mark Haagenstad

Comments: Laboratory Utilities personnel determined the cause of the release was associated with an overload of the boiler blow-down flash tank. Personnel plan to reroute the system to a larger existing blow-down tank that is designed to accommodate potential overloading of the system.

**NMED 30-DAY APPROVAL/DISAPPROVAL**

NMED 30 Day Response Date: 6/23/2005

Comments:

Edwin Wilmot, Director  
 Office of Los Alamos Site Operations  
 Department of Energy  
 Los Alamos, New Mexico 87544  
 (505) 667-5105

Kenneth Hargis, ENV Acting Division Leader  
 University of California  
 Los Alamos National Laboratory  
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 (505) 667-4218