



SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

NEW MEXICO  
ENVIRONMENT DEPARTMENT

*Ground Water Quality Bureau*

Harold Runnels Building  
1190 St. Francis Drive  
PO Box 5469, Santa Fe, NM 87502-5469  
Phone (505) 827-2918 Fax (505) 827-2965  
www.nmenv.state.nm.us



RYAN FLYNN  
Cabinet Secretary-Designate

BUTCH TONGATE  
Deputy Secretary  
EP2013-5123

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

May 31, 2013

Anthony R. Grieggs  
Group Leader, Water Quality & RCRA  
P.O. Box 1663, MS M704  
Los Alamos, NM 87545

✓ Gene Turner  
Environmental Permitting Manager  
Environmental Projects Office  
Los Alamos Site Office  
U.S. Department of Energy  
3747 West Jemez Rd.,  
Los Alamos, NM 87545

**RE: Response to Notice of Intent to Discharge; Discharge Permit Not Required for Discharge of Dechlorinated Potable Water From Technical Area (TA) 16, Los Alamos National Laboratory, AI:856 (PRD20130004)**

Dear Mssrs. Grieggs and Turner:

The New Mexico Environment Department (NMED) received a Notice of Intent (NOI) from Los Alamos National Laboratory (LANL) on March 18, 2013 (copy enclosed) for the one-time discharge of approximately 500,000 gallons of dechlorinated potable water from each of two potable water storage tanks (structure 16-171 and 16-247). The NOI and subsequent information submitted to NMED satisfy the requirements of Subsection A of 20.6.2.1201 NMAC of the New Mexico Water Quality Control Commission (WQCC) Regulations (20.6.2 NMAC). The proposed discharge is located at TA-16, approximately four miles southwest of White Rock, in Section 25, Township 19N, Range 05E, within the boundaries of Los Alamos National Laboratory, Los Alamos County.

Based on the information provided in the NOI, NMED has determined that a Discharge Permit is not required as long as the discharge is as described. A Discharge Permit is not required at this time because the information provided indicates it is unlikely that the discharge will adversely affect ground water quality.

Mssrs. Grieggs and Turner, AI:856 (PRD20130004)

May 31, 2013

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The proposed discharge is briefly described as follows:

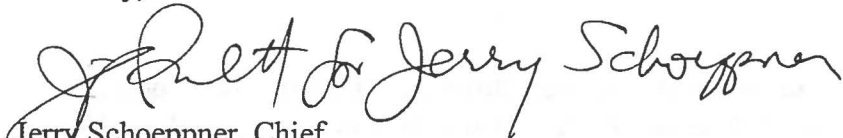
Dechlorinated potable water from two potable water storage tanks (Structure 16-171 and 16-247) will be discharged through tank valves during scheduled repairs for the tanks. Water will flow through a natural drainage that parallels West Jemez Road. The discharge area is equipped with stormwater controls to prevent water from reaching Water Canyon.

Although a Discharge Permit is not being required for this discharge at this time, LANL is not relieved of liability should this operation result in actual pollution of surface or ground waters. Further, this decision by NMED does not relieve LANL of the responsibility to comply with any other applicable federal, state, and/or local laws and regulations, such as zoning requirements, plumbing codes and nuisance ordinances.

If at some time in the future LANL intends to change the amount, character or location of the discharge, or if observation or monitoring shows that the discharge is not as described in the NOI, a revised NOI must be filed with the Ground Water Quality Bureau.

If you have any questions, please contact either Jennifer Fullam at (505) 827-2909 or Jennifer Pruett, Program Manager of the Ground Water Pollution Prevention Section, at (505) 827-0652.

Sincerely,

  
Jerry Schoeppner, Chief  
Ground Water Quality Bureau

JS:JF

Enc: Notice of Intent dated March 14, 2013

cc: Robert Italiano, District Manager, NMED District II (via electronic transmission w/enclosure)  
NMED Santa Fe Field Office (w/enclosure)  
County File (w/enclosure)  
James Hogan, NMED SWQB (w/o enclosure)  
Erin Trujillo, NMED SWQB (w/o enclosure)  
John Kieling, NMED HWB (w/o enclosure)  
Steven Yanicak, NMED-DOE-Oversight Bureau (w/o enclosure)  
Erik Galloway, NMED-DOE-Oversight Bureau (w/o enclosure)  
Carl Beard, PADOPS, Los Alamos National Laboratory, P.O. Box 1663, MS-A102, Los Alamos, NM 87545 (w/o enclosures)  
Michael T. Brandt, ADESH, Los Alamos National Laboratory, P.O. Box 1663, MS-K491, Los Alamos, NM 87545 (w/o enclosures)  
Alison M. Dorries, ENV-DO, Los Alamos National Laboratory, P.O. Box 1663, MS-

102-EP-579 2013-513782

Mssrs. Grieggs and Turner, AI:856 (PRD20130004)

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K491, Los Alamos, NM 87545 (w/o enclosures)

Michael S. Kuzmack, MOF-PM9, Los Alamos National Laboratory, P.O. Box 1663,  
MS-J590 Los Alamos, NM 87545 (w/o enclosures)

Vincent Y. Sing, MOF-PM9, Los Alamos National Laboratory, P.O. Box 1663, MS-  
J590 Los Alamos, NM 87545 (w/o enclosures)

Robert Lechel, ENV-ES, Los Alamos National Laboratory, P.O. Box 1663, MS-K490,  
Los Alamos, NM 87545 (w/o enclosures)

Michael Saladen ENV-RCRA, Los Alamos National Laboratory, P.O. Box 1663, MS-  
K490, Los Alamos, NM 87545 (w/o enclosures)

Jake Meadows, LANS/ENV-RCRA/WQ, P.O. Box 1663, MS-K490, Los Alamos, New  
Mexico 87545-0001 (w/o enclosures)

Bob Beers, ENV-RCRA, Los Alamos National Laboratory, P.O. Box 1663, MS-K490,  
Los Alamos NM, 87545 (w/enclosures)





GROUND WATER  
MAR 18 2013  
BUREAU

*Environmental Protection Division*  
WQ & RCRA Group (ENV-RCRA)  
PO Box 1663, MS K490  
Los Alamos, New Mexico 87545  
(505) 667-0666

*Date:* **MAR 14 2013**  
*Refer To:* ENV-RCRA-13-0060  
*LAUR:* 13-21694

Mr. Jerry Schoeppner, Bureau Chief  
Ground Water Protection Bureau  
New Mexico Environment Department  
Harold Runnels Building, N2250  
1190 St. Francis Drive  
P.O. Box 26110  
Santa Fe, New Mexico 87502

Mr. James Hogan, Bureau Chief  
Surface Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, N2050  
1190 St. Francis Drive  
P.O. Box 5469  
Santa Fe, New Mexico 87502-5469

Dear Mr. Schoeppner and Mr. Hogan:

**SUBJECT: NOTICE OF INTENT FOR DECHLORINATED POTABLE WATER  
DISCHARGE FROM TA-16-171 AND TA-16-247**

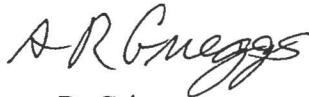
Enclosed is a Notice of Intent to Discharge (NOI) that has been prepared by Los Alamos National Security, LLC (LANS) for submittal to the New Mexico Environment Department pursuant to 20.6.2.1201 NMAC of the New Mexico Water Quality Control Commission Regulations and the Los Alamos National Laboratory (LANL) Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009.

The proposed discharges will be conducted at Technical Area 16, Structure 171 (TA-16-171) and Technical Area 16, Structure 247 (TA-16-247). Both structures are potable water storage tanks. The proposed one-time discharge from each location is in support of scheduled repairs for the storage tanks. Options to conserve the water are being investigated; however, discharges to the environment may be necessary. The discharges will be conducted in a controlled manner to prevent erosion and will be dechlorinated. The nearest watercourse is Water Canyon, but the discharges are not expected to reach the watercourse.



Please contact Jacob Meadows of the Water Quality and RCRA Group (ENV-RCRA) at (505) 606-0185 if additional information would be helpful.

Sincerely,



Anthony R. Grieggs  
Group Leader  
Water Quality & RCRA Group (ENV-RCRA)  
Los Alamos National Security, LLC

ARG:JM/lm

Enclosure:

1. Notice of Intent to be submitted to NMED pursuant to 20.6.2.1201 NMAC for a planned potable water discharge at TA-16-171 and 247

Cy: Robert George, NMED/GWQB, Santa Fe, NM, w/enc.  
Jennifer Fullam, NMED/GWQB, Santa Fe, NM, w/enc.  
Erik Galloway, NMED/DOE/OB, Santa Fe, NM, w/enc.  
Stephen M. Yanicak, NMED/DOE/OB, w/enc., (E-File)  
Gene E. Turner, NA-OO-LA, w/enc., (E-File)  
Carl A. Beard, PADOPS, w/o enc., A102  
Michael T. Brandt, ADESHQ, w/o enc., (E-File)  
Alison M. Dorries, ENV-DO, w/o enc., (E-File)  
Michael S. Kuzmack, MOF-PM9, w/enc., (E-File)  
Vincent Y. Sing, MOF-PM9, w/enc., (E-File)  
Robert A. Lechel, ENV-ES, w/enc., (E-File)  
Michael T. Saladen, ENV-RCRA, w/enc., (E-File)  
Jacob W. Meadows, ENV-RCRA, w/enc., (E-File)  
[LASOmailbox@nnsa.doe.gov](mailto:LASOmailbox@nnsa.doe.gov), w/enc., (E-File)  
[locatesteam@lanl.gov](mailto:locatesteam@lanl.gov), w/enc., (E-File)  
ENV-RCRA Correspondence File, w/enc., K490





# **ENCLOSURE 1**

Notice of Intent to be submitted to NMED pursuant to  
20.6.2.1201 NMAC for a planned potable water  
discharge at TA-16-171 and 247

ENV-RCRA-13-0060

LAUR-13-21694

Date:                     MAR 14 2013



## NOTICE OF INTENT

1. **Name and address of facility making the discharge.**

Los Alamos National Security, LLC  
P.O. Box 1663  
Los Alamos, New Mexico 87545

2. **Location of the discharge (In Township, Range and Section, if available).**

Technical Area 16, Structure 171 and Technical Area 16, Structure 247  
(Approximate coordinates: 35 deg. 50' 51" North, 106 deg. 21' 25" West)

3. **The means of discharge (To lagoon, Flowing stream, Water course, Arroyo, Septic tank, other).**

The water will be drained from two potable water storage tanks (Structure 16-171 and 16-247) through tank valves during separate operations. The water will flow down gradient through a natural drainage that parallels West Jemez Road. Stormwater controls on the east side of West Jemez Road would reduce the velocity of the water and appear to be capable of preventing the water from reaching Water Canyon. As a Best Management Practice, the water will be dechlorinated using Vita-D Chlor in accordance with the manufacturer's recommendations.

Discharged water may flow across Solid Waste Management Unit 16-031(e), but the release will be monitored and the water will be discharged at a controlled rate to reduce the potential for impacts to the SWMU.

SWMU 16-031(e) is an inactive outfall that served the chlorination station (structure 16-560) at TA-1. The outfall is located approximately 40 feet southwest of the chlorination station. The outfall received effluent from a concrete trench, floor drain, and a bench-scale sump within the building. The chlorination station was built in Water Canyon in 1957 and was moved in 1962 to its current site on West Jemez Road near the entrance to TA-16 (LANL 1995, 057225, 6-11-6-12).

4. **The estimated concentration of contaminants (if any) in the discharge.**

The water is from a potable source and would be dechlorinated prior to being released to the environment.

5. **The type of operation from which the discharge is derived.**

The water will be discharged from two potable water storage tanks (16-171 and 16-247) during separate operations to facilitate repairs to the tanks. Additional options to empty the tanks and conserve the water are being investigated, but in the event they are not feasible discharges to the environment may be necessary. The proposed



discharge at 16-171 will be conducted in April, 2013. The proposed discharge at 16-247 will be conducted in September, 2013.

6. **The estimated flow to be discharged per day.**

The one-time proposed discharge from each tank would be approximately 500,000 gallons of dechlorinated potable water released at a rate of approximately 100 gallons per minute. Each discharge would be conducted over the course of 84 hours and would be continually monitored.

7. **The estimated depth to Ground Water (if available).**

Approximately 650 feet. The nearest monitoring well is R-26, located approximately 2,000 feet northeast of 16-171.

