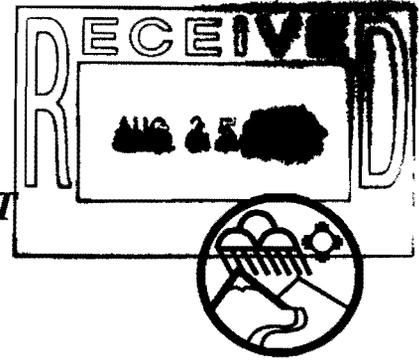


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*State of New Mexico*  
**ENVIRONMENT DEPARTMENT**  
**DOE OVERSIGHT BUREAU**

*134 State Road 4, Suite A*  
*TA 00-1313*  
*White Rock, New Mexico 87544*  
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ACTING DEPUTY SECRETARY

June 30, 2006

Mr. Gene Turner, DOE/AIP/POC  
Department of Energy  
Los Alamos Site Office, MS A316  
Los Alamos, NM 87545

**SUBJECT: Report Submittal: NMED-DOE-OB Site Evaluation Report For Storm Water And Erosion Controls at the and along the Power Grid Infrastructure Upgrade (PGIU) project at Los Alamos National Laboratory, June 6, 2006.**

Mr. Gene Turner:

NMED DOE OB is submitting the referenced report documenting our participation in a site evaluation of PGIU project for storm water and erosion controls on June 6, 2006. This site evaluation was conducted pursuant to the NPDES General Permit for Large and Small Construction Activities (Clean Water Act, 33 U.S.C. §1251 et.seq.).

Thank you for your continued support of our environmental monitoring and site evaluations at LANL. Please notify Erik Galloway (428-2547, email- [erik.galloway@state.nm.us](mailto:erik.galloway@state.nm.us)) at your earliest convenience, if you or your staff have any questions concerning this report.

Sincerely,

Steve Yanicak, Staff Manager/POC

SY:eg



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Mr. Gene Turner

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6/29/2006

**Enclosures:**

- 1) Report: NMED-DOE-OB Site Evaluation Report For Storm Water And Erosion Controls at the Power Grid Infrastructure Upgrade Project on June 6, 2006 (Galloway, NMED).
- 2) Photographs of the Stormwater Controls, and BMPs associated with the NMED-DOE Oversight Bureau Inspection of the Power Grid Infrastructure Upgrade Project (Robin Reynolds, LANS)

**cc w/enclosure:**

Dave McInroy, LANS, EP-CAP-DO MS M992  
Victoria A. George, LANS, EP-RS MS M992  
Steve Veenis, LANS, ENVP-RCRA MS K490  
Steve Rae, LANS, ENVP-RCRA MS K490  
Michael Saladen, LANS, ENVP-RCRA MS K490  
Robin Reynolds, LANS, ENVP-RCRA MS K490  
File, NMED, DOE OB, Santa Fe/White Rock

**wo/enclosure:**

Thomas Skibitski, NMED, Bureau Chief, DOE-OB

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**Subject:** NMED-DOE-OB Site Evaluation Report For Storm Water And Erosion Controls at the and along the Power Grid Infrastructure Upgrade (PGIU) project at Los Alamos National Laboratory, June 6, 2006.

The site evaluation was made pursuant to the NPDES General Permit for Large and Small Construction Activities (Clean Water Act, 33 U.S.C. §1251 et.seq.).

Participants:

Erik Galloway (NMED, DOE OB)  
Robin Reynolds (LANS, ENVP-RCRA)  
Jake Meadows (LANS, ENVP-RCRA)  
Tim Zimmerly (LANS, ENVP-RCRA)  
Jennifer Foot (Merrick, ENVP-RCRA)  
Thomas A. Lopez (LANS, FIRP-PGIU)

DOE OB staff met LANS staff at TA-59 for a pre-brief at approximately 8:30 am. The day was clear and hot with no rain.

The PGIU is a series of sites where 62 power poles have been placed in order to provide high voltage power lines to Los Alamos National Laboratory. Target date for project completion is November 2007.

SWPPP:

Due to the extent of this project the SWPPP was made available at the TA-59 pre-site meeting and it was certified. The SWPPP had signed and certified past inspection reports which included pictures of problem areas and the BMPs implemented to correct them. In addition, a copy of the Notice of Intent (NOI) required by the construction general permit, was present. The site diagram was found along with a spreadsheet that had a brief description of the site, its location, the sites potential to erode, and the BMPs that were to be implemented. This spreadsheet allowed the contractor and other parties to keep an up-to-date record of what BMPs were already implemented or needed to be implemented in addition to serving as the project's sediment control plan. Additionally, by using this spreadsheet as a tool to help direct the survey toward the most susceptible areas, it was of very helpful to DOE OB staff during the site evaluation. A suggestion was made that for other large projects within the Laboratory boundaries that this type of spreadsheet be utilized. The only deficiency noted in the project SWPPP was that the protocol for notification of potential spills was only referred to in the Spill Prevention Plan. In order to elevate this problem, a suggestion was made by DOE OB staff to place a listing of notification phone numbers and the referred to protocol into the SWPPP. In

gradient of pole 28 at the turnaround, the dirt berm needs to be either be extended or have a wattle of some other form of BMP placed along the north-eastern, down-gradient side at the end of the last trench before the canyon rim. This low area will receive the largest amount of concentrated storm water flow and should be protected in order to prevent sediment from leaving the site.

#### Pole 57:

The area around pole 57 was much improved since the last informal consultation with Mr. Tim Zimmerly of the LANS, ENVP-RCRA staff. Several water bars and a diversion trench were placed above the work area to control run-on to the site from the adjacent road and area above the site in addition to the installation of several straw wattles which were placed throughout the site to control erosion and capture sediment. A combination of dirt berms, water bars, surface roughing, terracing, diversion trenches and rock hardening were used in and around the cleared area of the pole sites to provide effective containment of any sheet flow of storm water from the construction footprint. In addition, a series of hay bale check dams were installed in the low lying area upstream and downstream of the active work site in order to slow runoff and to trap sediment on-site. A suggestion was made to install some form of access control barrier between the road and the site in order to keep people from driving and parking on the BMPs up-gradient of the site when they are seeking to use the trail that runs through the site. An additional suggestion was made to install one or more of rock check dams in the north-eastern road ditch to further prevent erosion and sediment from transport through the area from water coming off the road.

#### Additional Recommendations:

DOE OB staff made these recommendations specifically to Robin Reynolds (MSGP Construction permitting), Jennifer Foot (Merrick) and Jeffery J. Schroeder, Shannon Smith and Thomas Lopez (LANS, FIRP-PGIU).

Coordination/Communication between the PGIU program staff and the Construction Storm Water Permitting LANS, ENVP-RCRA program representatives is important and needs to be done from the beginning and continued through the end of the project. These coordination/communication efforts may need to be established as a program policy at the upper levels of management and be followed through by all contractors and subcontractors as well as all LANS, FIRP-PGIU staff. Storm water BMP implementation should be discussed, reviewed and budgeted throughout the project so that final stabilization can be achieved and the issuance of a Notice of Termination (NOT) can be done in a timely and cost saving manner.

If there are any questions concerning these recommendations, please call either Erik Galloway at 428-2547. Mr. Galloway will notify appropriate LANS, ENVP-RCRA staff to schedule any follow-up site evaluations.

Sincerely,



Mr. Stephen Yanicak  
Program Manager/POC  
DOE Oversight Bureau  
New Mexico Environment Department

xc: Thomas Skibitski, NMED, Bureau Chief, DOE-OB  
John Young, NMED, HWB  
Sandy Spon, NMED, SWQB Albuquerque  
Richard Powell, NMED, SWQB  
Erik Galloway, NMED, DOE OB  
Barbara Hoditschek, NMED, DOE OB  
Steve Rae, (LANS, ENVP-RCRA), MS K490  
Robin Reynolds, (LANS, ENVP-RCRA), MS K490  
Tim Zimmerly, (LANS, ENVP-RCRA), MS K490  
Tina Sandavol, (LANS, ENVP-RCRA), MS K490  
Thomas A. Lopez (LANS, FIRP-PGIU), MS J590  
Victoria A. George (LANS, ENVP-DO) MS J978  
File, NMED, DOE OB, Santa Fe/White Rock

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*Environment, Safety, Health & Quality  
Water Quality & RCRA (ENVP-RCRA)*  
P.O. Box 1663, Mail Stop K490  
Los Alamos, New Mexico 87545  
(505) 667-4689/FAX: (505) 665-9344

Date: June 22, 2006  
Refer To: ENVP-RCRA: 06-022

Mr. Erik Galloway  
New Mexico Environment Department  
DOE Oversight Bureau  
2905 Rodeo Park Drive East, Bldg. 1  
Santa Fe, NM 87505



**SUBJECT: PHOTOGRAPHS OF STORMWATER CONTROLS AND BMPS  
ASSOCIATED WITH THE NMED-DOE OVERSIGHT BUREAU  
INSPECTION OF THE POWER GRID INFRASTRUCTURE UPRGRADE  
PROJECT**

Dear Mr. Galloway:

Enclosed are photographs of the stormwater controls, BMPs, and issues associated with the NMED-DOE Oversight Bureau (OB) stormwater inspection of LANL construction sites on June 6 and 7, 2006.

The enclosure contains photographs of stormwater controls on the Power Grid Infrastructure Upgrade Project from the NMED-DOE OB stormwater inspection conducted on June 6, 2006. Descriptions of the stormwater control features are included in the captions. All photographs and captions contained in the enclosure are unclassified and have been assigned LA-UR-06-4376.

If you would like additional information, please contact me at (505) 667-4689.

Sincerely,

A handwritten signature in black ink that reads 'Robin Reynolds'.

Robin Reynolds  
NPDES Storm Water Construction General Permit Lead

RR:JM/lm

Enclosure: a/s

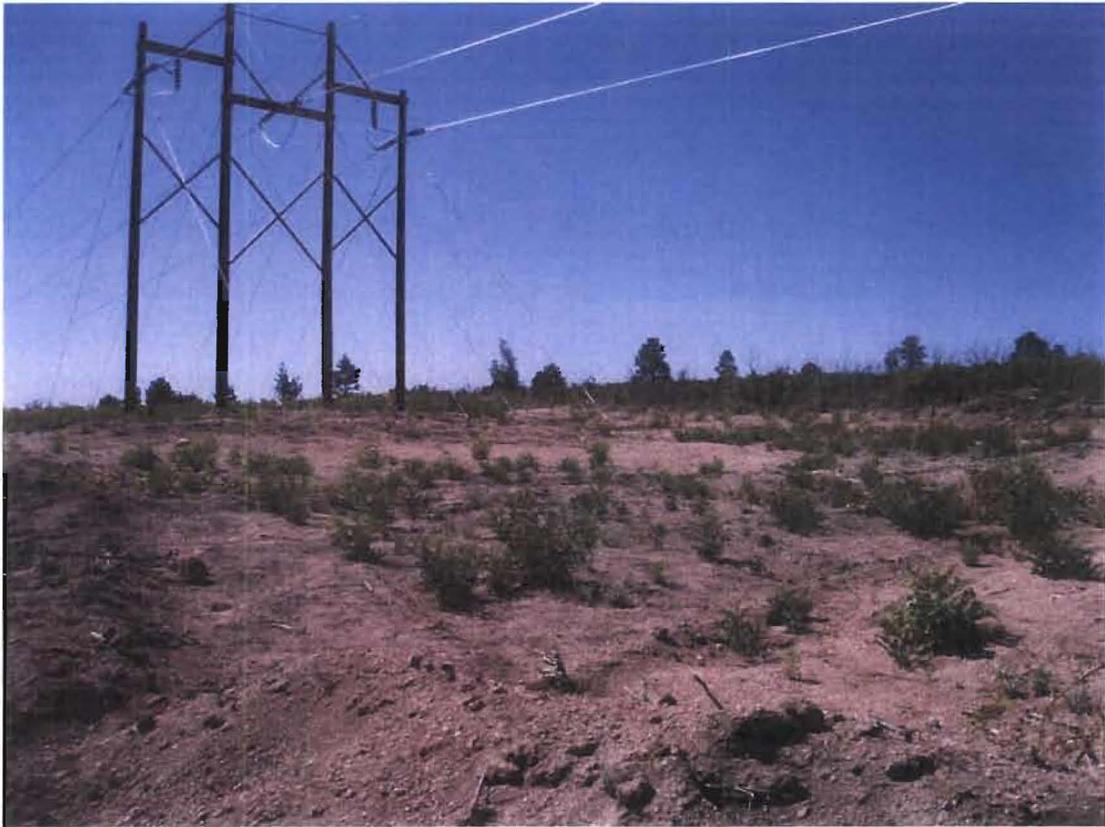
Cy: Gene Turner, NNSA/LASO, w/enc., MS A316  
Tori George, ENVP-DO, w/enc., MS J978  
Paula Bertino, ENV-ERS-DO, w/enc., MS M992  
Thomas A. Lopez, FIRP-PGIU, w/enc., MS J590  
Jeffrey Schroeder, FIRP-DO, w/enc., MS J590  
David Chastain, PP-DO, w/enc., MS M878  
Tony Grieggs, ENVP-RCRA, w/enc., MS K490  
Tina Sandoval, ENVP-RCRA, w/enc., MS K490  
Mike Saladen, ENVP-RCRA, w/enc., MS K490  
Holly Wheeler-Benson, ENVP-RCRA, w/enc., MS K490  
Jake Meadows, ENVP-RCRA, w/enc., MS K490  
ENVP-RCRA, File, w/enc., MS K490  
IRM-RMMSO, w/enc., MS A150

**Power Grid Infrastructure Upgrade Project Stormwater Controls**

**06/06/2006 NMED-DOE Oversight Bureau Inspection**



South facing view of control berm installed at pole 28.



Recovering native vegetation (New Mexico Locust) inside stormwater berm at Pole 28 looking SE



Recovering native vegetation (oak and locust) at pole 28



Use of natural log berm on down gradient side of powerline access road on the south side between poles 30 and 32. (NMED-DOE-OB Note: **Noteworthy use of natural resources.**)



Pole 31. Use of rock for surface roughening with Terraced slope pending stabilization with native seed mix with applied Flexterra FGM.



Minimized canopy and vegetation disturbance for clearing of access road at Pole 30. (NMED-DOE-OB Note: **Noteworthy accomplishment: conservation of established vegetation and canopy, minimizing soil disturbance, conservation of natural resources.**)



Silt fence BMP at Pole 57 with log check dams in drainage. Silt fence was removed that afternoon to facilitate site-wide application of hydro-mulched with Flexterra, FGM.



Pole 57 Upper drainage trench for storm water diversion of run-on.



Reuse of local, native vegetation to enhance temporary stabilization at Pole 57.



Pole 57. Pre-installation photo of rock run-down BMP laid in place of silt fence later that day. Seed application and hydro-mulching followed.



Pole 57. Straw bales check dams installed during interim construction as a means of temporary site run-on control.



Pole 57. Entrance to site. Eric stated that a barricade of some sort is needed at the top of the entrance to limit access and to prevent damage after hydro-mulching activities were completed. The area was fertilized, seeded and hydro-mulched that same afternoon of the inspection. Rock barricade placed at the road entrance.