

**COPY**



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**Date:** SEP 03 2015  
**Symbol:** ENV-DO-15-0245  
**LA-UR:** 15-26789

**Locates Action No.:** N/A

Ms. Michelle Hunter, Bureau Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, Room N2261  
1190 St. Francis Drive  
P.O. Box 26110  
Santa Fe, NM 87502

GROUND WATER

SEP 03 2015

BUREAU

Dear Ms. Hunter:

**Subject: Multiple Activities Work Plan for the Treatment and Land Application of Groundwater from Mortandad and Sandia Canyons, DP-1793 WP#2**

On July 27, 2015, the New Mexico Environment Department (NMED) issued a Discharge Permit (DP-1793) to the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) for the land application of treated groundwater from covered activities. Pursuant to the requirements of Discharge Permit DP-1793, on August 13, 2015, DOE/LANS submitted a work plan for the treatment and land application of groundwater produced from Chromium Project activities (ENV-DO-14-0221). On August 18, 2015, NMED informed DOE/LANS [written communication, Ms. Hunter (NMED) to Ms. Dorries (LANS) and Ms. Gelles (DOE)] that the workplan, as submitted, failed to meet the requirements of Condition No. 3 of the above-referenced Discharge Permit and was therefore rejected. Subsequently, on August 21, 2015, NMED and DOE/LANS staff met to discuss modifications to the August 13<sup>th</sup> work plan that would be incorporated into a new submittal. The enclosed Work Plan incorporates NMED's recommendations.

This Multiple Activities Work Plan (Work Plan) is for the proposed discharge of treated regional aquifer groundwater from three activities conducted under the Chromium Project:

- ✓ pumping at extraction well CrEX-1,
- ✓ new monitoring well and piezometer development and aquifer testing, and
- ✓ routine monitoring well purging during sampling.



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This Multiple Activities Work Plan (Work Plan) is for the proposed discharge of treated regional aquifer groundwater from three activities conducted under the Chromium Project:

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- ✓ routine monitoring well purging during sampling.

The activities listed above are conducted for chromium plume monitoring as specified in the 2013 Interim Measures Work Plan for the Evaluation of Chromium Mass Removal; NMED's February 19, 2014 Approval with Modifications letter for Phase II Investigation Report for Sandia Canyon; and NMED-approved annual Interim Facility-Wide Groundwater Monitoring Plans. Produced groundwater will be treated and discharged in accordance with the enclosed Work Plan and supporting information:

- ✓ Enclosure 1: Multiple Activities Work Plan for the Treatment and Land Application of Groundwater From Mortandad and Sandia Canyons
- ✓ Enclosure 2: Interim Measures Work Plan for the Evaluation of Chromium Mass Removal
- ✓ Enclosure 3: Topographical map showing required features and approved land application areas
- ✓ Enclosure 4: Table 3.4-1, Interim Monitoring Plan for Chromium Investigation Monitoring Group
- ✓ Enclosure 5: Well and Piezometer Fact Sheets
- ✓ Enclosure 6: Water quality data from Well CrEX-1
- ✓ Enclosure 7: Ion Exchange (IX) Treatment System Schematic and IX Technical Specifications
- ✓ Enclosure 8: Map of project components: wells, treatment, piping, storage, and irrigation areas
- ✓ Enclosure 9: Land application sites signage

Pumping at extraction well CrEX-1 is scheduled to begin in October 2015, contingent on NMED approval of the enclosed Work Plan (Enclosure 1), and continue until December 31, 2015, or until field conditions prohibit land application, whichever comes first. Technical staff from DOE/LANS are available at your convenience to brief you on the details of the project and answer questions.

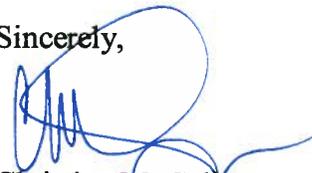
Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at [bbeers@lanl.gov](mailto:bbeers@lanl.gov) if you have questions regarding this work plan.

Sincerely,



Alison M. Dorries  
Division Leader  
Environmental Protection Division  
Los Alamos National Security, LLC

Sincerely,



Christine M. Gelles  
Acting Manager  
Environmental Management  
Los Alamos Field Office  
U.S. Department of Energy

AMD:CMG:MTS:RSB/lm

Enclosures:

1. Enclosure 1: Multiple Activities Work Plan for the Treatment and Land Application of Groundwater from Mortandad and Sandia Canyons
2. Enclosure 2: Interim Measures Work Plan for the Evaluation of Chromium Mass Removal
3. Enclosure 3: Topographical map showing required features and approved land application areas
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8. Enclosure 8: Map of project components: wells, treatment, piping, storage, and irrigation areas
9. Enclosure 9: Land application sites signage

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