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Title:	**Status Report, Water/Cañon de Valle Watershed July 1–November 30, 2012**
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Intended for:	Public
Purpose:	This *Status Report* has been prepared to facilitate public review of activities under the Individual Storm Water Permit (National Pollutant Discharge Elimination System Permit No. NM0030759) (IP). This report, not required by the IP, updates the 2011 Annual Report (published on March 1, 2012). Further, it summarizes precipitation, monitoring, inspection and maintenance, corrective action, and compliance status at specific solid waste management units and areas of concern listed in the IP. The report will be available on Los Alamos National Laboratory's public website established as required under Part 1.I (7) of the IP.

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STATUS REPORT

Water/Cañon de Valle Watershed
July 1–November 30, 2012

INDIVIDUAL STORM WATER
NPDES PERMIT No. NM0030759

OVERVIEW

Los Alamos National Security, LLC, under the direction of the National Nuclear Security Administration, has prepared this *Status Report* to facilitate public review of activities under the Individual Storm Water Permit (National Pollutant Discharge Elimination System Permit No. NM0030759) (IP). This report, not required by the IP, updates the 2011 Annual Report published on March 1, 2012. Further, for the July 1–November 30, 2012, time period, it summarizes precipitation, monitoring, inspection and maintenance, corrective action, and compliance status at specific solid waste management units and areas of concern, commonly referred to as "Sites." A previous report was prepared summarizing these activities from January 1–June 30, 2012. Both reports will be available on Los Alamos National Laboratory's public website established as required under Part 1.I (7) of the IP. This website may be found at http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php.

Within the Water/Cañon de Valle watershed, 89 Sites are monitored at 50 site monitoring areas (SMAs). Highlights of work performed from July 1–November 30, 2012, include the following items.

- Additional controls were installed or replaced at 4 SMAs, baseline controls were replaced at 4 SMAs, and enhanced controls were certified as corrective action measures at 11 SMAs.
- Thirty-three samplers were activated. Four confirmatory samples were collected as a result of 12 measureable storm events. A total of 131 storm event inspections were completed.
- As of November 30, 2012, baseline monitoring is continuing at 30 SMAs, and corrective action was initiated at 20 SMAs (42 Sites). One Site was issued a Certificate of Completion under the Compliance Order on Consent (the Consent Order).
- There were no incidents of noncompliance that could potentially endanger health or the environment during this time period, July 1–November 30, 2012.

PRECIPITATION

Within the watershed, 4 precipitation gages monitor and report precipitation activity during the field season. These gages and their activity levels from July 1–November 30, 2012, are shown in Table 1. There were 12 measurable storm events (an event with precipitation intensity of 0.25 in. within 30 min).

Table 1
Precipitation Activity for
July 1–November 30, 2012

Rain Gage	Related SMAs	Measurable Storm Events	Storm Event Inspections Conducted
RG253	8	07/11/2012 07/24/2012 08/16/2012 10/12/2012	8 8 8 8
RG257	27	07/04/2012 09/28/2012	27 27
RG262.4	12	07/04/2012 07/25/2012 09/10/2012	12 12 12
RG267.4	3	07/07/2012 08/26/2012 09/10/2012	3 3 3

Adverse Weather

No adverse weather events affected IP activities.

MONITORING

Samplers Activated

Thirty-three samplers were activated on July 1, 2012, and, an additional 12 samplers were activated after July 1 and prior to November 30. Four samplers were shut down following the collection of an extended

baseline sample, and 9 samplers were shut down for the winter, leaving 32 samplers activated on November 30, 2012. The remaining samplers were shut down for the winter in early December 2012.

Samples Collected

A single extended baseline monitoring sample was collected from W-SMA-5 on July 3, 2012; from CDV-SMA-1.4 on September 10, 2012; from PT-SMA-1.7 on September 10, 2012; and from CDV-SMA-2.5 on October 12, 2012.

Sampler Placement

Samplers associated with monitoring locations for Sites were placed in accordance with coordinate locations provided in the Site Discharge Pollution Prevention Plan, Revision 1, Volume 4 (SDPPP, R1, V4).

INSPECTION AND MAINTENANCE

Post-Storm Inspections

A total of 131 post-storm inspections were required to be conducted at the Sites as a result of 12 measurable storm events.

Visual Inspections

Three visual inspections were conducted at SMAs where a target action level (TAL) was exceeded.

Significant Event Inspections

One significant storm event inspection was conducted at CDV-SMA-1.4 following the July 11, 2012, rain event. All destroyed controls were retired and replaced. Rock check dams, earth berms, and a sediment basin were installed as additional controls.

Annual Erosion Inspections

No annual erosion reevaluation inspections conducted during the July 1–November 30, 2012, time period. All annual inspections for the 50 SMAs in the watershed were completed prior to July 1, 2012.

Control Maintenance

Forty control maintenance activities were conducted.

CORRECTIVE ACTION

Augmented Control Installations

Additional controls were installed or replaced at 4 SMAs and are presented in Appendix A. The additional controls were installed at these Sites to "augment" baseline controls. These Sites are not in corrective action because monitoring has not shown a TAL exceedance.

Baseline Control Replacements

Baseline control replacements were completed at 4 SMAs and are presented in Appendix A. The purpose of a control replacement is to maintain or upgrade the existing certified baseline controls at an SMA.

Enhanced Control Installations

When a sample that exceeds TALs is collected from an SMA, those Sites advance to corrective action. One of the corrective action options is to construct enhanced controls.

When all the enhanced controls are installed, a certification of the installed controls is submitted to the U.S. Environmental Protection Agency (EPA) and New Mexico Environment Department (NMED) and is made available on the IP website. Enhanced controls were certified at 11 SMAs:

- CDV-SMA-6.02, CDV-SMA-1.45, and CDV-SMA-3 on July 18, 2012
- PT-SMA-1 and PT-SMA-2.01 on August 3, 2012
- W-SMA-10 on August 23, 2012
- W-SMA-1.5, W-SMA-2.05, and W-SMA-14.1 on September 25, 2012
- W-SMA-11.7 and W-SMA-15.1 on October 23, 2012

Compliance Status Categories

Compliance status is tracked for each Site throughout the year. The categories used for tracking include the following:

- *Baseline Confirmation Complete*—All confirmation monitoring results for all pollutants of concern at the SMA are at or below TALs, and corrective action is not required at the Sites. No further sampling is required.
- *Baseline Monitoring Extended*—Baseline confirmation monitoring is in progress, and no storm water from a measurable storm event has been collected. There has been no TAL exceedance.
- *Corrective Action Initiated*—A sample was collected during baseline confirmation monitoring, and analytical results show at least one pollutant concentration is above TAL, resulting in initiation of corrective action. Corrective action may include
  - ❖ installing enhanced control measures,
  - ❖ installing control measures that totally retain storm water,
  - ❖ installing control measures that totally eliminate the exposure of pollutants, or
  - ❖ receiving a Certificate of Completion from NMED.
- *Enhanced Control Corrective Action Monitoring*—Confirmation monitoring at as SMA is initiated to determine how well enhanced controls are performing. This monitoring occurs after certification that the enhanced control measures have been installed and are complete.
- *Corrective Action Complete*—Completion of corrective action is demonstrated by one of the following:
  1. Analytical results from enhanced control monitoring show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable TALs; or
  2. Control measures that totally retain and prevent the discharge of storm water have been installed at the Site; or
  3. Control measures that totally eliminate exposure of pollutants to storm water have been installed at the Site; or
  4. The Site has achieved Resource Conservation and Recovery Act "no further action" status or a Certificate of Completion from NMED.

COMPLIANCE STATUS

Baseline Confirmation Is Complete

All confirmation monitoring to assess baseline controls were above TALs; therefore, corrective action is required at the Sites where a baseline monitoring sample was collected.

Baseline Monitoring Is Extended

As of November 30, 2012, baseline monitoring is continuing at 30 SMAs. A confirmation monitoring sample has not been collected at these SMAs. Baseline monitoring will be extended under the IP until analytical results are received from the first confirmation sample collected.

Corrective Action Is Initiated

As of November 30, 2012, corrective action has been initiated at 20 SMAs (42 Sites). See Appendix B for a list of these Sites and associated SMAs.

Enhanced Control Corrective Actions Are Monitored

As of November 30, 2012, enhanced control corrective action monitoring has started at 12 SMAs: W-SMA-14.1, CDV-SMA-6.02, W-SMA-1.5, CDV-SMA-1.45, CDV-SMA-3, PT-SMA-1, PT-SMA-2.01, W-SMA-9.9, W-SMA-10, W-SMA-11.7, W-SMA-15.1, and W-SMA-2.05.

Corrective Action Complete

One Certificate of Completion under the Consent Order was issued on November 29, 2012, for Site 16-030(c), 1 of 4 Sites monitored under CDV-SMA-1.4.

DOCUMENTS SUBMITTED

From July 1–November 30, 2012, no new IP Program documents were submitted to EPA Region 6.

IP documents for the IP Program can be found on the IP website at http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php.

APPENDIX A
Additional Controls Installed and Baseline Controls Replaced between July 1–November 30, 2012

Site Monitoring Area	Control Description	Install Date	Control Category
PT-SMA-4.2	I007-03-12-0007 Berm–Rock	08/09/2012	Additional control
CDV-SMA-1.4	V003-03-01-0066 Berm–Earthen	09/06/2012	Additional control
	V003-03-01-0067 Berm–Earthen	09/06/2012	Replaced additional control
	V003-05-02-0068 Traps and Basins–Sediment	09/06/2012	Additional control
	V003-06-01-0058 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0059 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0060 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0061 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0062 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0063 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0064 Check Dam–Rock	09/06/2012	Replaced additional control
	V003-06-01-0065 Check Dam-Rock	09/06/2012	Additional control
F-SMA-2	F001-03-01-0017 Berm–Earthen	09/18/2012	Additional control
PT-SMA-3	I005-04-06-0007 Channel/Swale–Rip Rap	09/18/2012	Additional control
	I005-03-02-0008 Berm–Base Course	09/19/2012	Additional control
CDV-SMA-4	V011-01-01-0005 Seed and Mulch–Wood	07/25/2012	Replaced baseline control
CDV-SMA-6.01	V012-03-06-0011 Berm–Straw Wattles	07/25/2012	Replaced baseline control
	V012-03-06-0012 Berm–Straw Wattles	07/25/2012	Replaced baseline control
W-SMA-5	W006-06-01-0028 Check Dam–Rock	08/01/2012	Replaced additional control
CDV-SMA-1.2	V001-03-06-0010 Berm–Straw Wattles	08/02/2012	Replaced baseline control
	V001-03-06-0011 Berm–Straw Wattles	08/02/2012	Replaced baseline control

APPENDIX B
Sites and Site Monitoring Areas in Corrective Action Initiated Status as of November 30, 2012, within the Water/Cañon de Valle Watershed

Site Monitoring Area	Site
CDV-SMA-1.45	16-026(i)
CDV-SMA-2.41	16-018
CDV-SMA-3	14-009
CDV-SMA-6.02	14-002(d) 14-002(e)
F-SMA-2	36-004(c)
PT-SMA-0.5	C-15-004 15-009(e)
PT-SMA-1	15-004(f) 15-008(a)
PT-SMA-2.01	C-36-001 C-36-006(e)
W-SMA-1	16-017(j)-99 16-026(c2) 16-026(v)
W-SMA-1.5	16-026(b2) 16-028(d)
W-SMA-2.05	16-028(e)
W-SMA-8.71	16-004(c)
W-SMA-9.9	11-006(b)
W-SMA-10	11-002 11-003(b) 11-005(a) 11-005(b) 11-006(c) 11-006(d) 11-011(d)
W-SMA-11.7	49-008(c)
W-SMA-14.1	15-004(h) 15-014(l)
W-SMA-15.1	49-005(a)
W-SMA-5	16-026(b) 16-001(e) 16-026(e) 16-026(c) 16-003(f) 16-026(d)
CDV-SMA-1.4	16-030(c) 16-020 16-026(l) 16-028(c)
PT-SMA-1.7	15-006(a)