

LA-UR-13-26609

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*Title:* **Status Report, Pajarito Watershed  
January 1–June 30, 2013**

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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 2012 Annual Report (published on March 1, 2013). 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 I.I.7 of the IP.



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LA-UR-13-26609  
August 2013  
EP2013-0159

# **STATUS REPORT**

**Pajarito Watershed  
January 1–June 30, 2013**

**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 2012 Annual Report published on March 1, 2013. Further, for the January 1–June 30, 2013, 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 second report will be prepared that summarizes these activities from July 1–December 30, 2013. Both reports will be available on Los Alamos National Laboratory’s public website as required under Part I.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>.

The site monitoring area (SMA) map format has been updated to make the maps easier to understand and to provide more information, such as the location of established vegetation. The updated maps are available on the web (<http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/site-monitoring-area-maps.php>) and are updated when any change is made.

Within the Pajarito watershed, 60 Sites are monitored at 51 SMAs. Highlights of work performed from January 1–June 30, 2013, include the following items.

- Additional controls were installed at 47 SMAs, and no augmented controls were installed at any SMAs. Baseline control replacements were completed at 47 SMAs, and enhanced controls were installed as corrective action measures at 2 SMAs.
- Forty-one samplers were activated. There were two measureable storm events, and one confirmation sample was collected. No storm event inspections were completed during the reporting period.
- As of June 30, 2013, baseline monitoring is continuing at 30 SMAs, corrective action was initiated at 19 SMAs (20 Sites), and no corrective action was required at 2 SMAs. No Sites were issued Certificates of Completion under the Compliance Order on Consent (the Consent Order).
- There were no incidents of noncompliance that could potentially endanger human health or the environment during this time period (January 1–June 30, 2013).

**PRECIPITATION**

Within the watershed, eight precipitation gages monitor and report precipitation activity during the field season. These gages and their activity levels from January 1–June 30, 2013, are shown in Table 1. There were two measurable storm events, (an event with precipitation intensity of 0.25 in. within 30 min).

**Adverse Weather**

Severe fire hazard conditions resulted in a stand-down of field activities that occurred from June 24 to July 8, 2013, preventing field crews from accessing most SMA locations.

**Table 1  
Precipitation Activity for  
January 1–June 30, 2013**

Rain Gage	Related SMAs	Measurable Storm Events	Storm Event Inspections Conducted
RG-TA-06	21	None	0
RG-TA-54	5	06/28/2013	0
RG121.9	4	None	0
RG240	5	None	0
RG245.5	11	None	0
RG253	1	None	0
RG257	2	06/30/2013	0
RG262.4	2	None	0

## **MONITORING**

### **Samplers Activated**

Forty-one samplers were activated at the beginning of this field season (April 1, 2013).

### **Samples Collected**

One confirmation sample was collected during the reporting period. An enhanced control corrective action monitoring sample was collected from 2M-SMA-2 on June 14, 2013.

### **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 3 (SDPPP, R1, V3). Sampler locations were modified at 2 SMAs. The PJ-SMA-13.7 sampler was moved to a more representative location after enhanced control measure certification. The STRM-SMA-1.5 sampler was moved to a more representative location after enhanced control measure certification.

## **INSPECTION AND MAINTENANCE**

### **Post-Storm Inspections**

No post-storm inspections were required to be conducted during the reporting period.

### **Visual Inspections**

No visual inspections were required to be conducted during the reporting period.

### **Significant Event Inspections**

No significant events that could impact the control measures and environmental conditions occurred that required a Site to be reevaluated and inspected under Part I.G.1 of the IP.

### **Annual Erosion Inspections**

Annual erosion reevaluation inspections were conducted at all 51 SMAs as required under Part I.G.1 of the IP.

### **Construction Inspections**

Construction inspections were conducted at 2 SMAs.

### **Control Maintenance**

Three control maintenance activities were conducted.

**CORRECTIVE ACTION**

**Augmented Control Installations**

No additional controls were installed at any SMAs. Additional controls are installed at Sites to “augment” baseline controls; these Sites are not in corrective action because monitoring has not shown a target action level (TAL) exceedance.

**Baseline Control Replacements**

Baseline control replacements were completed at 47 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, these 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 2 SMAs:

- STRM-SMA-1.05 on May 2, 2013
- 2M-SMA-2 on May 2, 2013

**COMPLIANCE STATUS**

**Baseline Confirmation Complete**

Baseline confirmation monitoring was completed on August 18, 2011, for PJ-SMA-14.8 [1 associated Site: 18-012(a)] and on September 9, 2012, for 2M-SMA-2.5 [1 associated Site: 40-001(c)]. No TAL exceedances were observed per Part I.D.4 (b) of the IP. For this reason, corrective action is not required for this Site, and monitoring is no longer required for the duration of the IP.

**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 measurable storm events 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 TALs, 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 an 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.
  2. Control measures that totally retain and prevent the discharge of storm water have been installed at the Site.
  3. Control measures that totally eliminate exposure of pollutants to storm water have been installed at the Site.
  4. The Site has achieved Resource Conservation and Recovery Act “no further action” status or a Certificate of Completion from NMED.

### **Baseline Monitoring Extended**

As of June 30, 2013, baseline monitoring is continuing at 30 SMAs (41 Sites). A confirmation monitoring sample has not been collected at these SMAs. Baseline monitoring will be extended under the IP until analytical results have been received from the first confirmation sample collected.

### **Corrective Action Initiated, Planning Started**

As of June 30, 2013, corrective action has been initiated at 19 SMAs (21 Sites). See Appendix B for a list of these Sites and associated SMAs.

### **Enhanced Control Corrective Action Monitoring**

As of June 30, 2013, enhanced control corrective action monitoring has started at 11 SMAs (13 Sites).

### **Corrective Action Complete**

No Certificates of Completion under the Consent Order have been issued for any Sites within the watershed.

### **DOCUMENTS SUBMITTED**

From January 1–June 30, 2013, three IP Program documents were submitted to EPA Region 6 and are listed below.

- 2012 Storm Water Individual Permit Annual Report, March 1, 2013
- 2012 Storm Water Individual Permit Compliance Status Reports (Discharge Monitoring Reports), March 1, 2013
- Updates to the SDPPP, R1, Volumes 1–5, May 1, 2013

IP documents submitted in 2013 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 January 1–June 30, 2013**

Site Monitoring Area	Control Description	Install Date	Control Category
2M-SMA-1	E00102040026 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.42	E00202040015 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.43	E00302040005 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.44	E00402040008 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.45	E00502040018 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.5	E00602040005 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.65	E00702040011 Established Vegetation	05/07/2013	Replaced Baseline Control
2M-SMA-1.67	E00802040016 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.7	E00902040009 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-1.8	E01002040010 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-2	E01202040015 Established Vegetation	04/23/2013	Replaced Baseline Control
2M-SMA-2.5	E01502040006 Established Vegetation	05/07/2013	Replaced Baseline Control
2M-SMA-3	E01402040013 Established Vegetation	05/07/2013	Replaced Baseline Control
3M-SMA-0.2	H00102040006 Established Vegetation	05/07/2013	Replaced Baseline Control
3M-SMA-0.4	H00202040005 Established Vegetation	05/13/2013	Replaced Baseline Control
3M-SMA-0.5	H00302040017 Established Vegetation	05/08/2013	Replaced Baseline Control
3M-SMA-0.6	H00402040029 Established Vegetation	05/08/2013	Replaced Baseline Control
3M-SMA-2.6	H00502040007 Established Vegetation	05/02/2013	Replaced Baseline Control
3M-SMA-4	H00602040010 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-1.05	J00102040019 Established Vegetation	04/23/2013	Replaced Baseline Control
PJ-SMA-2	J00202040022 Established Vegetation	05/08/2013	Replaced Baseline Control

Site Monitoring Area	Control Description	Install Date	Control Category
PJ-SMA-3.05	J00302040012 Established Vegetation	05/08/2013	Replaced Baseline Control
PJ-SMA-4.05	J00402040008 Established Vegetation	05/08/2013	Replaced Baseline Control
PJ-SMA-5	J00502040015 Established Vegetation	04/23/2013	Replaced Baseline Control
PJ-SMA-5.1	J00602040010 Established Vegetation	04/23/2013	Replaced Baseline Control
PJ-SMA-6	J00702040018 Established Vegetation	05/07/2013	Replaced Baseline Control
PJ-SMA-7	J00802040006 Established Vegetation	05/07/2013	Replaced Baseline Control
PJ-SMA-8	J00902040010 Established Vegetation	05/07/2013	Replaced Baseline Control
PJ-SMA-9	J01002040010 Established Vegetation	05/07/2013	Replaced Baseline Control
PJ-SMA-11	J01302040018 Established Vegetation	05/07/2013	Replaced Baseline Control
PJ-SMA-11.1	J01402040015 Established Vegetation	05/07/2013	Replaced Baseline Control
PJ-SMA-13	J01502040005 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-13.7	J01602040011 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-14.2	J01802040005 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-14.3	J01902040003 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-14.4	J02002040010 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-14.6	J02102040008 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-14.8	J02202040007 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-16	J02302040004 Established Vegetation	05/02/2013	Replaced Baseline Control
PJ-SMA-17	J02402040008 Established Vegetation	05/16/2013	Replaced Baseline Control
PJ-SMA-18	J02602040010 Established Vegetation	05/16/2013	Replaced Baseline Control
PJ-SMA-19	J02502040011 Established Vegetation	05/16/2013	Replaced Baseline Control
PJ-SMA-20	J02702040007 Established Vegetation	05/16/2013	Replaced Baseline Control
STRM-SMA-1.05	J02802040009 Established Vegetation	05/08/2013	Replaced Baseline Control



Site Monitoring Area	Control Description	Install Date	Control Category
STRM-SMA-1.5	J02902040018 Established Vegetation	05/08/2013	Replaced Baseline Control
STRM-SMA-4.2	J03002040006 Established Vegetation	04/23/2013	Replaced Baseline Control
STRM-SMA-5.05	J03102040013 Established Vegetation	04/23/2013	Replaced Baseline Control

**APPENDIX B**  
**Corrective Action Status for Site Monitoring Areas and**  
**Sites as of June 30, 2013, within the Pajarito Watershed**

Site Monitoring Area	Site	Corrective Action Status*
2M-SMA-1	03-010(a)	CAI2
2M-SMA-1.42	06-001(a)	CAM5
2M-SMA-1.44	06-001(b)	CAM5
2M-SMA-1.45	06-006	CAM5
2M-SMA-1.65	40-005	CAM5
2M-SMA-1.7	03-055(a)	CAM5
2M-SMA-1.8	03-001(k)	CAI
2M-SMA-1.9	03-003(a)	CAI
2M-SMA-2	03-050(d)	CAM5
	03-054(b)	
2M-SMA-2.2	03-003(k)	CAI
PJ-SMA-3.05	09-004(o)	CAM5
PJ-SMA-5	22-015(c)	CAI
PJ-SMA-5.1	22-016	CAM5
	22-010(b)	New Site
PJ-SMA-13.7	18-010(b)	CAI
PJ-SMA-20	54-017	CAI
STRM-SMA-1.05	08-009(f)	CAM5
STRM-SMA-1.5	08-009(d)	CAI
STRM-SMA-4.2	09-008(b)	CAM5
STRM-SMA-5.05	09-013	CAM5

\* CAM3 and CAM5: From the Individual Storm Water Permit (IP), Part I.E.4(a)(b)—Collect one or more samples after completion of corrective action control measures at moderate priority sites within 5 yr or at high priority sites within 3 yr of effective date of permit.

CAI and CAI2: From the IP, Part I.E.1(a)—Baseline or enhanced control confirmation monitoring has exceeded a target action level, and the corrective action response is being planned.

CACompD: From the IP, Part I.E.2(d)—A Site has achieved Resource Conservation and Recovery Act “corrective action complete” status or a Certificate of Completion under the Compliance Order on Consent. Collect no sample.