

STATUS REPORT

NPDES PERMIT No. NM0030759

SITE DISCHARGE POLLUTION PREVENTION PLAN VOLUME 3

PAJARITO WATERSHED AGGREGATE



Reporting Period: April 1, 2011 – June 30, 2011

LA-UR-11-11472

I. OVERVIEW

The Status Report for the Individual Permit (STRIP) summarizes work conducted at Sites permitted and reported in the Site Discharge Pollution Prevention Plan, Volume 3 (V3 SDPPP), Pajarito Watershed Aggregate area and is prepared in partial fulfillment of requirements set forth in NPDES Permit No. NM0030759 (IP or Permit). The V3 STRIP is one of five documents summarizing ongoing activities that will be reflected in the annual update to the V3 SDPPP. Within the V3 SDPPP, there are 60 Sites monitored in 51 Permitted Features.

On June 26, 2011 the Las Conchas Fire started northwest of the Laboratory. The wildfire burned over 150,000 acres of New Mexico forest ultimately becoming the largest forest fire in the state's history. Impacts from the Las Conchas fire were primarily north of the monitored areas in the watershed. Within this aggregate area, approximately 26% of the watershed above the Pajarito Watershed Aggregate area was burned.

II. CONTROL ACTIVITIES

BASELINE COMPLETIONS

All baseline control measures associated with the V3 SDPPP have been installed and certified in accordance with Part 1.A requirements of the IP. These certification documents were prepared and submitted as control installations were completed.

PREVENTATIVE MAINTENANCE INSPECTIONS

Following the completion of control installations and the certification of this work, preventative maintenance inspections (PMIs) were conducted in preparation for the 2011 season. These

inspections were voluntary inspections conducted prior to the significant precipitation typically experienced in the latter months of the field season.

PMIs conducted, associated reference numbers, and related maintenance actions, as applicable, are summarized in sections below.

PREVENTATIVE MAINTENANCE INSPECTIONS CONDUCTED

In the V3 STRIP, 19 PMI inspections have been conducted for the reporting period. Appendix A provides the summary details of these inspections, inspection findings, and the corresponding reference numbers for the individual inspection reports.

PREVENTATIVE REPAIR AND REPLACEMENT

Of the 19 PMI's conducted, 1 inspection noted repair or replacement needed. Two maintenance actions were conducted on arrival or at the time of inspection.

ADDITIONAL CONTROL INSTALLATIONS

Based on the results of early informal field reviews, additional controls have been installed at 1 SMA within the V3 STRIP.

Table II.A Additional Controls at Sites in V3 STRIP

SMA	Additional Control	Install Date
PJ-SMA-1.05	01010015 seed and wood mulch	4/28/2011

CORRECTIVE ACTION PLANNING

Planning for corrective action responses have begun at all high priority Sites within the V3 STRIP.

ADVERSE WEATHER

As described in the introduction, an adverse weather event occurred beginning

Sunday, June 26, 2011. All work associated with the IP project was interrupted from June 27 through July 7, 2011 due to the Las Conchas fire. This event mandated the evacuation of Los Alamos and prompted the subsequent closure of the Laboratory. Work resumed at the Laboratory on July 7 although many areas were still inaccessible due to the proximity of the fire.

III. CONFIRMATION ACTIVITIES

PRECIPITATION

During the field season (April 1 – November 30), the IP project monitors precipitation through a network of 17 rain gages mapped to specific areas across the Complex. Within the V3 STRIP, 8 precipitation gages monitor and report precipitation activity. These gages and the activity for the reporting period are shown in the table below. For the reporting period, there were no qualifying storm events or events with precipitation intensity of 0.5" in thirty minutes.

Table III.A Precipitation Activity for Reporting Period

Precipitation Gage	Associated SMAs	Qualifying Storm Events	Storm Event Inspections Conducted
RG-TA-06	21	0	0
RG-TA-54	5	0	0
RG121.9	4	0	0
RG240	5	0	0
RG245.5	11	0	0
RG253	1	0	0
RG257	2	0	0
RG262.4	2	0	0

STORM EVENT INSPECTIONS

No storm-event inspections have been required or conducted in the V3 SDPPP aggregate area through the period ending June 30, 2011.

VISUAL INSPECTIONS

No Visual Inspections have been required or conducted at Sites/SMAs within the V3 STRIP for the reporting period.

SAMPLER PLACEMENT

All 51 samplers associated with monitoring locations for Sites in this STRIP have been placed in accordance with coordinate locations provided in the V3 SDPPP. As described in Section 700.2 of the SDPPP, minor adjustments were made to samplers at PJ-SMA-3.05 and 2M-SMA-1.5. Physical data reported in the SDPPP are reflective of the sampler adjustments. Minor adjustments were also made to samplers at PJ-SMA-7 and PJ-SMA-8, post publication. 2011 sampler location data and activation dates are provided in Appendix B. Except as noted above, samplers are located consistent with locational data provided in the Permit.

2011 sampler-location data and activation dates are provided in Appendix B for clarity. Except as noted above; samplers are located consistent with the locational data provided in the Permit and the SDPPP.

SAMPLERS ACTIVATED

Samplers within this aggregate area have been activated and are ready for sample collection. Forty-nine (49) samplers were activated in the second quarter of the calendar year at SMAs within the V3 STRIP.

SAMPLES COLLECTED

No confirmation samples have been collected at Sites/SMAs within the V3 STRIP for the reporting period.

IV. CERTIFICATION ACTIVITIES

BASELINE CERTIFICATIONS

Baseline controls for all Sites monitored in SMAs in the V3 SDPPP have been installed and certified. A crosswalk of these certifications and the relevant documents are provided in Table IV.A, below. Certification documents have been posted to the public reading room (<http://www.lanl.gov/environment/h2o/ip.shtml?2>) and a summary of certification documents relevant to Sites in V3 SDPPP are also provided in Part IV, Certification Activities of this STRIP.

Table IV.A Baseline Certifications in V3 STRIP

Baseline Certification Documents	Document Title	Document Date
LA-UR-10-07681	Certification of baseline control measures completion for 63 site monitoring areas	12/1/2010
LA-UR-10-08294	Certification of baseline control measures completion for 65 site monitoring areas	12/16/2010
LA-UR-11-00114	Certification of baseline control measures completion for 57 site monitoring areas	1/12/2011
LA-UR-11-00912	Certification of baseline control measures completion for 26 site monitoring areas	2/11/2011
LA-UR-11-10500	Certification of baseline control measures completion for 21 site monitoring areas	4/27/2011

CERTIFICATES OF COMPLETION UNDER NMED CONSENT ORDER

Sites monitored under the IP are in some stage of investigation under the Consent Order issued by the New Mexico Environment Department (NMED). At the conclusion of extensive investigation, and/or remediation, and reporting, the NMED issues a Certificate of Completion of Corrective Action under the Consent Order. Sites that have received such certifications from NMED have been thoroughly investigated and have met the standards set by the collective parties under this agreement.

No Certificates of Completion under the Consent Order have been issued by the New Mexico Environment Department for Sites in the V3 STRIP.

COMPLETION OF CORRECTIVE ACTION

No Completions of corrective action under NMED's Consent Order were certified pursuant to Part 1.E.2 (d) for Sites within the V3 STRIP.

DELETION FROM PERMIT

Currently there are no Sites/SMAs meeting the criteria for deletion from the Permit.

APPENDIX A

PREVENTATIVE MAINTENANCE INSPECTION SUMMARY

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
2M-SMA-1	6/23/11	All Controls Operating Effectively	BMP-14036	None	Not Applicable	None
2M-SMA-1.65	6/21/11	All Controls Operating Effectively	BMP-13807	None	Not Applicable	None
2M-SMA-1.67	6/21/11	All Controls Operating Effectively	BMP-13808	None	Not Applicable	None
2M-SMA-1.7	6/21/11	All Controls Operating Effectively	BMP-13809	None	Not Applicable	None
2M-SMA-1.8	6/21/11	All Controls Operating Effectively	BMP-13810	None	Not Applicable	None
2M-SMA-1.9	6/21/11	All Controls Operating Effectively	BMP-13811	None	Not Applicable	None
2M-SMA-2	6/21/11	All Controls Operating Effectively	BMP-13812	None	Not Applicable	None
2M-SMA-2.2	6/21/11	All Controls Operating Effectively	BMP-13813	None	Not Applicable	None
2M-SMA-2.5	6/21/11	All Controls Operating Effectively	BMP-13814	None	Not Applicable	None
2M-SMA-3	6/21/11	Replace Wattles E01403060006 and E01403060007	BMP-13816	Replaced straw wattles E01403060006 and E01403060007	8/17/11 7/8/11	BMP-14155 BMP-14156
3M-SMA-0.4	6/20/11	All Controls Operating Effectively	BMP-13818	None	Not Applicable	None
3M-SMA-0.5	6/20/11	All Controls Operating Effectively	BMP-13819	None	Not Applicable	None
3M-SMA-0.6	6/20/11	All Controls Operating Effectively	BMP-13820	None	Not Applicable	None
PJ-SMA-1.05	6/21/11	All Controls Operating Effectively	BMP-13945	None	Not Applicable	None
PJ-SMA-6	6/21/11	All Controls Operating Effectively	BMP-13971	None	Not Applicable	None
PJ-SMA-7	6/21/11	Pine needles observed in culvert J00804040003.	BMP-13972	Cleaned pine needles out of culvert J00804040003 upon arrival.	Not Applicable	None
PJ-SMA-8	6/21/11	All Controls Operating Effectively	BMP-13973	None	Not Applicable	None
PJ-SMA-9	6/21/11	All Controls Operating Effectively	BMP-14035	None	Not Applicable	None
STRM-SMA-5.05	6/21/11	Repair Silt dike J03103050005	BMP-13975	Temporarily repaired Silt dike J03103050005 with stones and dirt fill upon arrival.	Not Applicable	None

APPENDIX B

2011 SAMPLER LOCATIONS AND ACTIVATION DATES

SMA	Latitude (decimal degrees)	Longitude (decimal degrees)	NMSP (Ft.)	NMSP (Ft.)	Sampler No.	Activation Date
2M-SMA-1	35.8730562	-106.3308276	161647	1773067	SS2432	6/1/2011
2M-SMA-1.42	35.8648184	-106.3343272	161543	1770069	SS093203	6/2/2011
2M-SMA-1.43	35.8613395	-106.3339035	161555	1768803	SS093204	5/27/2011
2M-SMA-1.44	35.8651067	-106.3329861	161582	1770174	SS093205	6/2/2011
2M-SMA-1.45	35.8643341	-106.3329835	161583	1769893	SS103215	7/27/2011
2M-SMA-1.5 ²	35.8610470	-106.3332356	161575	1768696	SS2436	5/18/2011
2M-SMA-1.65	35.8603421	-106.3291928	161695	1768439	SS093209	6/2/2011
2M-SMA-1.67	35.8631909	-106.3263356	161779	1769475	SS103216	7/27/2011
2M-SMA-1.7	35.8682138	-106.3249093	161822	1771303	SS2438	6/1/2011
2M-SMA-1.8	35.8682477	-106.3242963	161840	1771315	SS103217	6/1/2011
2M-SMA-1.9	35.8721505	-106.3259400	161791	1772736	SS103218	6/2/2011
2M-SMA-2	35.8686327	-106.3225740	161891	1771455	SS103219	5/9/2011
2M-SMA-2.2	35.8687910	-106.3216159	161919	1771512	SS093214	5/9/2011
2M-SMA-2.5	35.8600119	-106.3127114	162183	1768315	SS093210	6/2/2011
2M-SMA-3	35.8572993	-106.3185406	162010	1767329	SS2439	5/25/2011
3M-SMA-0.2	35.8484672	-106.3093407	162283	1764112	SS091501	5/26/2011
3M-SMA-0.4	35.8433821	-106.2950175	162707	1762259	SS101502	5/25/2011
3M-SMA-0.5	35.8432080	-106.2902260	162849	1762195	SS2459	5/26/2011
3M-SMA-0.6	35.8451310	-106.2906454	162837	1762895	SS2457	5/26/2011
3M-SMA-2.6	35.8388387	-106.2733268	163350	1760603	SS101503	5/25/2011
3M-SMA-4	35.8391801	-106.2693590	163467	1760727	SS101504	5/25/2011
PJ-SMA-1.05	35.8624221	-106.3420184	161315	1769199	SS092327	5/18/2011
PJ-SMA-2	35.8572353	-106.3412464	161337	1767311	SS2422	5/16/2011
PJ-SMA-3.05 ²	35.8565379	-106.3391653	161399	1767057	SS092326	6/2/2011
PJ-SMA-4.05	35.8537099	-106.3361481	161488	1766026	SS092328	6/1/2011
PJ-SMA-5	35.8596246	-106.3349179	161525	1768179	SS24254	5/18/2011
PJ-SMA-5.1	35.8598411	-106.3341165	161549	1768258	SS092306	6/2/2011
PJ-SMA-6	35.8573097	-106.3293402	161690	1767335	SS24255	5/27/2011
PJ-SMA-7 ¹	35.8568894	-106.3217566	161915	1767180	SS112337	5/17/2011
PJ-SMA-8 ¹	35.8570254	-106.3206049	161949	1767230	SS112338	5/17/2011
PJ-SMA-9	35.8567191	-106.3195079	161982	1767118	SS2427	5/17/2011
PJ-SMA-10	35.8564496	-106.3160158	162085	1767019	SS2428	5/23/2011
PJ-SMA-11	35.8559906	-106.3112368	162227	1766851	SS102333	5/27/2011
PJ-SMA-11.1	35.8560566	-106.3111019	162231	1766875	SS102334	5/27/2011
PJ-SMA-13	35.8418769	-106.2684673	163494	1761709	SS102335	6/2/2011
PJ-SMA-13.7	35.8399719	-106.2664142	163555	1761015	SS102336	5/26/2011
PJ-SMA-14	35.8434666	-106.2641638	163621	1762287	SS2465	5/9/2011
PJ-SMA-14.2	35.8396732	-106.2655334	163581	1760906	SS092320	5/26/2011
PJ-SMA-14.3	35.8393858	-106.2650289	163596	1760802	SS092321	5/26/2011
PJ-SMA-14.4	35.8397082	-106.2650134	163596	1760919	SS092322	6/2/2011
PJ-SMA-14.6	35.8395311	-106.2644604	163613	1760855	SS092323	5/26/2011
PJ-SMA-14.8	35.838312	-106.2642708	163618	1760411	SS092324	6/2/2011

SMA	Latitude (decimal degrees)	Longitude (decimal degrees)	NMSP (Ft.)	NMSP (Ft.)	Sampler No.	Activation Date
PJ-SMA-16	35.8305678	-106.2481711	164095	1757592	SS092325	5/9/2011
PJ-SMA-17	35.8301430	-106.2426621	164259	1757439	SS092331	5/9/2011
PJ-SMA-18	35.8289112	-106.2379219	164399	1756989	SS092329	5/9/2011
PJ-SMA-19	35.8292318	-106.2367929	164433	1757107	SS092330	5/9/2011
PJ-SMA-20	35.8297427	-106.2346590	164496	1757292	SS092332	5/9/2011
STRM-SMA-1.05	35.8596812	-106.3496197	161089	1768204	SS093001	5/27/2011
STRM-SMA-1.5	35.8608777	-106.3489320	161110	1768639	SS2411	5/23/2011
STRM-SMA-4.2	35.8587639	-106.3455074	161211	1767869	SS093006	5/27/2011
STRM-SMA-5.05	35.8595055	-106.3398054	161380	1768137	SS093002	5/16/2011

¹ These samplers have had minor adjustments from the locations originally provided in the Permit as provided by Part I.D.2 of the Permit. These minor adjustments were made to collect more representative storm water samples from these areas after the SDPPP R0 was published. These data will be updated in the SDPPP R1 publication.

² These samplers have had minor adjustments from the locations originally provided in the Permit as allowed by Part I.D.2 of the Permit. These minor adjustments were made to collect more representative storm water samples from these areas and were published in SDPPP R0.