

STATUS REPORT

NPDES PERMIT No. NM0030759

SITE DISCHARGE POLLUTION PREVENTION PLAN VOLUME 4

WATER/CAÑON DE VALLE WATERSHED AGGREGATE



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

LA-UR-11-11473

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 4 (V4 SDPPP), Water/Cañon de Valle Watershed Aggregate area and is prepared in partial fulfillment of requirements set forth in NPDES Permit No. NM0030759 (IP or Permit). The V4 STRIP is one of five documents summarizing ongoing activities that will be reflected in the annual update to the V4 SDPPP. Within the V4 SDPPP, there are 89 Sites monitored in 50 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 30% of the watershed above the Water/Cañon de Valle Watershed Aggregate area was burned.

II. CONTROL ACTIVITIES

BASELINE COMPLETIONS

All baseline control measures associated with the V4 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 V4 STRIP, 3 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 3 PMI's conducted, 2 inspections noted repair or replacement needed.

ADDITIONAL CONTROL INSTALLATIONS

Based on the results of early informal field reviews, no additional controls have been installed at any SMAs within the V4 STRIP.

CORRECTIVE ACTION PLANNING

Planning for corrective action responses have begun at all high priority Sites within the V4 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 V4 STRIP, 4 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 0.25" in thirty minutes.

Table III.A Precipitation Activity for Reporting Period

Precipitation Gage	Associated SMAs	Qualifying Storm Events	Storm Event Inspections Conducted
RG253	8	0	0
RG257	27	0	0
RG262.4	12	0	0
RG267.4	3	0	0

STORM EVENT INSPECTIONS

No storm-event inspections have been required or conducted in the V4 STRIP aggregate area through the period ending June 30, 2011.

VISUAL INSPECTIONS

No Visual Inspections have been required or conducted at Sites/SMAs within the V4 STRIP for the reporting period.

SAMPLER PLACEMENT

All 50 samplers associated with monitoring locations for Sites in this STRIP have been placed in accordance with coordinate locations provided in the SDPPP. Within the V4 STRIP, three samplers had marginally incorrect Y-coordinate data published in the SDPPP. These SMAs are noted and corrected values are provided in Appendix B of this report.

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-three (43) samplers were activated in the second quarter of the calendar year at SMAs within the V4 STRIP.

SAMPLES COLLECTED

No confirmation samples have been collected at Sites/SMAs within the V4 STRIP for the reporting period.

IV. CERTIFICATION ACTIVITIES

BASELINE CERTIFICATIONS

Baseline controls for all Sites monitored in SMAs in the V4 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 V4 SDPPP are also provided in Part IV, Certification Activities of this STRIP.

Table IV.A Baseline Certifications in V4 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-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
LA-UR-11-10593	Certification of completion of baseline control measures for 18 site monitoring areas	5/16/2011

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 additional Certificates of Completion under the Consent Order have been issued by the New Mexico Environment Department for Sites in the V4 STRIP.

COMPLETION OF CORRECTIVE ACTION

Completions of corrective action under NMED's Consent Order were certified pursuant to Part 1.E.2 (d) for 1 Site within the V4 STRIP as provided in the [Individual Permit Annual Report](#).

This Site will continue to be monitored according to the requirements specified in the Permit until the Sites can be formally petitioned for removal from the IP.

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
CDV-SMA-9.05	6/20/11	All Controls Operating Effectively	BMP-13864	None	Not Applicable	None
PT-SMA-1.7	6/6/11	Repair/replace wattles I00303060008 and I00303060009.	BMP-13967	Replace straw I00303060008 wattle in current location. Replace straw I00303060009 wattle in current location.	8/18/11 7/8/11	BMP-14153 BMP-14154
W-SMA-14.1	6/20/11	Repair/replace seed and mulch W02101010015	BMP-13992	Map modification reducing extent of seed & mulch W02101010015 as part of it has grown into vegetation	8/8/11	CCN-14152

APPENDIX B

2011 SAMPLER LOCATIONS AND ACTIVATION DATES

NPDES Permit No. NM0030759 Status Report, Water/Cañon de Valle Watershed Aggregate

SMA	Latitude (decimal degrees)	Longitude (decimal degrees)	NMSP (Ft.)	NMSP (Ft.)	Sampler No.	Activation Date
CDV-SMA-1.2	35.84834915	-106.3478075	1611432	1764078	SS100421	5/12/2011
CDV-SMA-1.3	35.84823205	-106.3471435	1611628	1764036	SS100422	5/16/2011
CDV-SMA-1.4	35.85007768	-106.3471865	1611616	1764707	SS2542	5/26/2011
CDV-SMA-1.45	35.84984359	-106.3469326	1611691	1764622	SS090406	6/2/2011
CDV-SMA-1.7	35.85093450	-106.3422485	1613080	1765018	SS2547	5/26/2011
CDV-SMA-2	35.84979240	-106.3402812	1613663	1764602	SS255	5/26/2011
CDV-SMA-2.3	35.84609920	-106.3330723	1615798	1763255	SS080404	5/26/2011
CDV-SMA-2.41	35.84996413	-106.3327306	1615900	1764662	SS090407	5/6/2011
CDV-SMA-2.42	35.84900018	-106.3326217	1615932	1764311	SS090408	6/2/2011
CDV-SMA-2.5	35.84651733	-106.3307872	1616475	1763407	SS090420	5/6/2011
CDV-SMA-2.51	35.84695834	-106.3299158	1616733	1763567	SS090409	5/6/2011
CDV-SMA-3	35.84776552	-106.3206653	1619475	1763859	SS25605	6/3/2011
CDV-SMA-4	35.84804086	-106.3196262	1619783	1763959	SS25610	5/19/2011
CDV-SMA-6.01	35.84779410	-106.3171117	1620528	1763869	SS090410	5/19/2011
CDV-SMA-6.02	35.84749226	-106.3164478	1620725	1763759	SS090411	6/3/2011
CDV-SMA-7	35.84530886	-106.3117280	1622123	1762963	SS252625	5/26/2011
CDV-SMA-8	35.84426568	-106.3101481	1622591	1762583	SS25630	7/26/2011
CDV-SMA-8.5	35.84111398	-106.3109299	1622359	1761436	SS090418	6/3/2011
CDV-SMA-9.05	35.83611766	-106.3059071	1623846	1759616	SS090412	6/3/2011
F-SMA-2	35.82733920	-106.2768873	1632447	1756418	SS092401	5/27/2011
PT-SMA-0.5	35.83918252	-106.2994823	1625751	1760731	SS26565	5/23/2011
PT-SMA-1	35.83908441	-106.2974578	1626351	1760695	SS2657	5/23/2011
PT-SMA-1.7	35.83354383	-106.2935629	1627504	1758678	SS094813	7/25/2011
PT-SMA-2	35.83651486	-106.2923415	1627867	1759759	SS2658	5/23/2011
PT-SMA-2.01	35.83629825	-106.2919711	1627977	1759680	SS094814	6/3/2011
PT-SMA-3	35.82973795	-106.2593291	1637651	1757291	SS094807	5/27/2011
PT-SMA-4.2	35.82427831	-106.2486892	1640805	1755302	SS094806	5/24/2011
W-SMA-1	35.84147982	-106.3511618	1610435	1761579	SS25203	5/26/2011
W-SMA-1.5	35.84191602	-106.3550898	1609271	1761739	SS103928	5/26/2011
W-SMA-2.05	35.83951721	-106.3529914	1609892	1760865	SS093903	5/26/2011
W-SMA-3.5	35.83728753	-106.3443141	1612463	1760051	SS103929	6/2/2011
W-SMA-4.1	35.83705964	-106.3405215	1613587	1759967	SS103930	5/12/2011
W-SMA-5 ¹	35.84161576	-106.3387936	1614101	1761625	SS2528	7/26/2011
W-SMA-6	35.83633285	-106.3384350	1614205	1759702	SS2522	5/12/2011

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SMA	Latitude (decimal degrees)	Longitude (decimal degrees)	NMSP (Ft.)	NMSP (Ft.)	Sampler No.	Activation Date
W-SMA-7	35.83855511	-106.3374475	1614499	1760511	SS25243	5/26/2011
W-SMA-7.8	35.83631431	-106.3379025	1614363	1759695	SS103931	5/26/2011
W-SMA-7.9	35.83595182	-106.3376997	1614423	1759563	SS103932	5/12/2011
W-SMA-8 ¹	35.83603037	-106.3373068	1614539	1759592	SS2523	7/26/2011
W-SMA-8.7	35.84359229	-106.3335781	1615647	1762343	SS103933	7/26/2011
W-SMA-8.71	35.84376415	-106.3348392	1615273	1762406	SS093912	6/2/2011
W-SMA-9.05	35.83500743	-106.3330962	1615787	1759218	SS093914	5/26/2011
W-SMA-9.5	35.83875667	-106.3276288	1617409	1760581	SS093915	7/25/2011
W-SMA-9.7	35.83905821	-106.3259452	1617908	1760691	SS093916	6/1/2011
W-SMA-9.8	35.83886583	-106.3248805	1618223	1760621	SS093917	6/1/2011
W-SMA-9.9	35.83898318	-106.3238291	1618535	1760663	SS103934	7/25/2011
W-SMA-10 ¹	35.83793690	-106.3233352	1618681	1760282	SS25245	6/1/2011
W-SMA-11.7	35.82444568	-106.3000399	1625583	1755367	SS103935	5/26/2011
W-SMA-12.05	35.82544882	-106.2989368	1625910	1755732	SS093922	5/11/2011
W-SMA-14.1	35.83251596	-106.2966040	1626603	1758304	SS103936	5/25/2011
W-SMA-15.1	35.82443041	-106.2951009	1627047	1755361	SS093927	6/2/2011

¹ An error in the SDPPP publication of the Y coordinates of these Sites was published in the SDPPP R0. The corrected coordinates are provided above and will be corrected in the R1 publication of the SDPPP.