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Storm Water Individual Permit Annual Report

Reporting Period: January 1–December 31, 2012

NPDES Permit No. NM0030759

Prepared by the Environmental Programs Directorate

CERTIFICATION

LOS ALAMOS NATIONAL LABORATORY
NPDES Permit No. NM0030759

ANNUAL REPORT
REPORTING PERIOD: January 1, 2012–December 31, 2012

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Acting for

2/25/13

Dave McInroy, Program Director
Corrective Actions Program
Environmental Programs
Los Alamos National Security, LLC

Date

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David S. Rhodes | 2-27-2013

David S. Rhodes, Supervisory Federal Project Director
Environmental Projects Office
Los Alamos Field Office
National Nuclear Security Administration

Date

EXECUTIVE SUMMARY

Los Alamos National Security, LLC, under the direction of the U.S. Department of Energy (collectively, the Permittees), has prepared this Annual Report for the Individual Storm Water Permit pursuant to the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 (hereafter, the Individual Permit or Permit). The Individual Permit authorizes the discharge of storm water associated with historical industrial activities at the Los Alamos National Laboratory from specified solid waste management units and areas of concern, collectively referred to as Sites. The Permit incorporating the latest modifications became effective on November 1, 2010.

No incidents of noncompliance occurred during the 2012 annual reporting period.

This Annual Report presents activities and milestones accomplished during the period from January 1 to December 31, 2012. Highlights of work performed under the compliance requirements specified in the Permit during the 2012 annual reporting period include the following:

- 50 “additional” control measures installed at 21 site monitoring areas (SMAs)
- Baseline confirmation monitoring samples collected at 15 SMAs
- Corrective action enhanced control confirmation monitoring samples collected at 5 SMAs
- No further monitoring based on no target action level (TAL) exceedance during baseline monitoring at 3 SMAs
- Corrective action initiated based on TAL exceedances at 63 SMAs associated with 105 Sites
- 151 enhanced control measures installed at 42 SMAs associated with 67 Sites
- Completion of corrective action at 12 Sites
- Replacement of 89 retired control measures
- 1017 Permit-required inspections
- 1963 sampling equipment inspections
- Website updates and public notifications
- 3 public and 2 technical meetings
- Site Discharge Pollution Prevention Plan
    - ❖ Volume 1 – Los Alamos/Pueblo Watershed, Revision 1
    - ❖ Volume 2 – Sandia/Mortandad Watershed, Revision 1
    - ❖ Volume 3 – Pajarito Watershed, Revision 1
    - ❖ Volume 4 – Water/Canon de Valle Watershed, Revision 1
    - ❖ Volume 5 – Ancho/Chaquehui Watershed, Revision 1

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1.0 INTRODUCTION

Los Alamos National Laboratory (LANL or the Laboratory) is a multidisciplinary research facility owned by the U.S. Department of Energy (DOE) and managed by Los Alamos National Security, LLC (LANS), collectively, the Permittees. The Laboratory, located in Los Alamos County in northern New Mexico, covers approximately 36 mi^2. It is situated on the Pajarito Plateau, which is made up of a series of finger-like mesas separated by deep, west-to-east-oriented canyons cut by predominantly ephemeral and intermittent streams. Many of the Sites covered by this Permit are remotely located and are not associated with current industrial activities.

LANS has prepared this Annual Report for the Individual Storm Water Permit pursuant to the requirements of National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 (hereafter, the Individual Permit or Permit) as authorized by the U.S. Environmental Protection Agency (EPA). The Individual Permit authorizes the discharge of storm water associated with historical industrial activities at the Laboratory from specified solid waste management units (SWMUs) and areas of concern (AOCs), collectively referred to as Sites. The Individual Permit does not regulate storm water discharges associated with current conventional industrial activities at LANL. The Permit incorporating the latest modifications became effective on November 1, 2010 (EPA 2010, 213450).

The Sites regulated under this Permit are a subset of the SWMUs and AOCs that are being addressed under the March 2005 Compliance Order of Consent (Consent Order). The Consent Order fulfills the corrective action requirements in §3004(u) and §3008(h) of the Resource Conservation and Recovery Act (RCRA). A SWMU is a discernible unit at which solid wastes may have been “routinely and systematically released” and could result in a release of hazardous constituents. A Site that met the definition of a SWMU or AOC was evaluated for inclusion in the Permit based on the following criteria: (1) the SWMU/AOC is exposed to storm water (e.g., not capped or subsurface); (2) the SWMU/AOC contains “significant industrial material” (e.g., not cleaned up or has contamination in place; and (3) potentially impacts surface water.

The selection of SWMUs and AOCs for inclusion in the Permit was based on storm water, sediment, and soil data available at the time the Permit application was submitted. The investigation and remediation of SWMUs and AOCs under the Consent Order began before the effective date of the Individual Permit and continues concurrently with implementation of the Individual Permit.

The Individual Permit treats a Site as an “industrial activity” that creates a “point source discharge” and directs the Permittees to monitor storm water discharges from Sites at specified sampling points known as site monitoring areas (SMAs). An SMA is a single drainage area within a subwatershed and can include more than one Site. Storm water from a Site may drain to multiple subwatersheds and may be associated with multiple SMAs.

The Permit contains nonnumeric technology-based effluent limitations, coupled with a comprehensive, coordinated inspection and monitoring program, to minimize pollutants in the Permittees’ storm water discharges associated with historical industrial activities from specified SWMUs and AOCs. The Permittees are required to implement site-specific control measures (including best management practices [BMPs]) to address the nonnumeric technology-based effluent limits, as necessary, to minimize pollutants in their storm water discharges.

The Permit establishes target action levels (TALs) that are equivalent to New Mexico State water-quality criteria. These TALs are used as benchmarks to determine the effectiveness of control measures implemented under the Permit. That is, confirmation monitoring sample results for an SMA are compared with applicable TALs. If one or more confirmation monitoring result exceeds a TAL, the Permittees must take corrective action. The Permit requires that the Permittees either certify to EPA completion of corrective action at each Site by a specific deadline or seek to place individual Sites into alternative compliance, whereby completion of corrective action will be accomplished on a case-by-case basis pursuant to an individually tailored compliance schedule determined by EPA. Figure 1-1 is a “road map” illustrating key activities in the Individual Permit and shows the steps involved in the corrective action process.

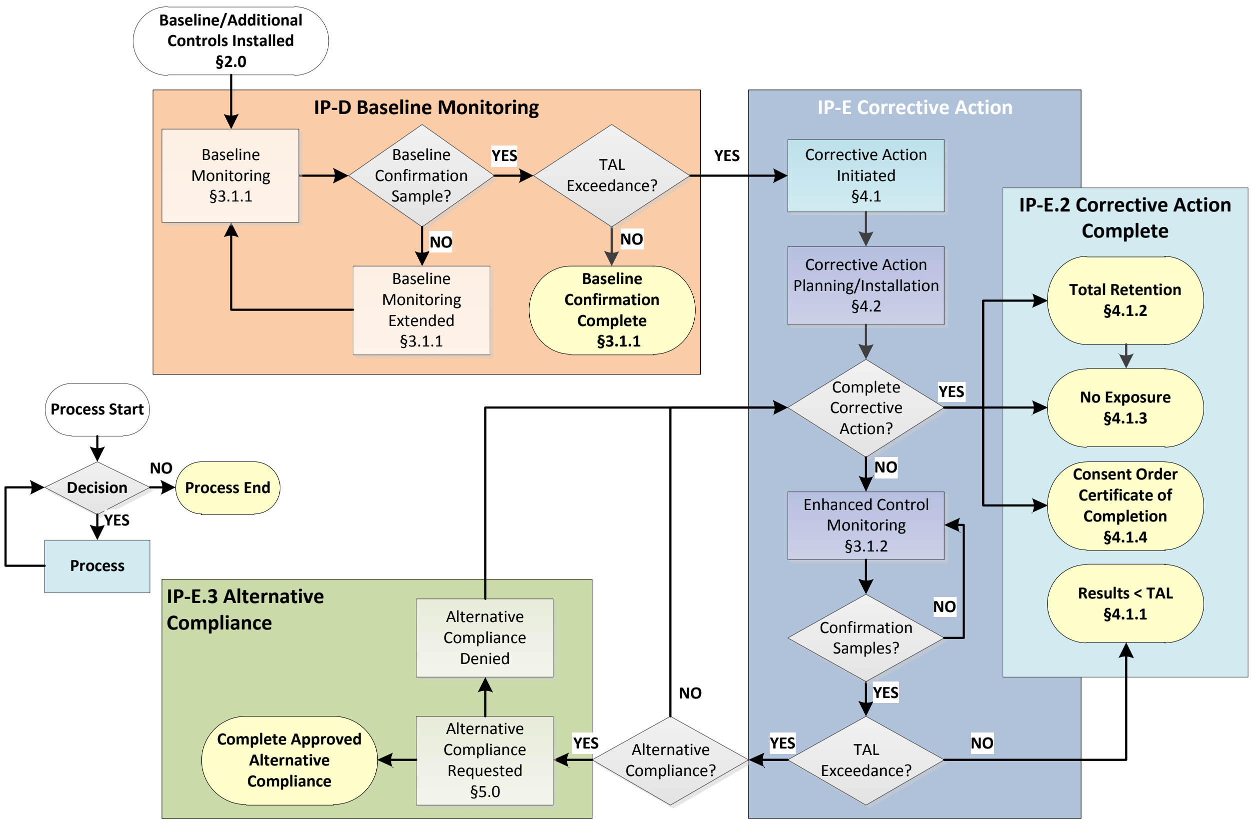


Figure 1-1 Permit compliance roadmap

This annual status report was prepared to meet the requirements of Part I.H.2(a) through (k) of the Individual Permit. Each requirement is addressed separately in this report and includes for each SMA (or Site) a summary of Site-specific status during the reporting period, as described in Table 1-1.

> Part I.H.2(b) of the Permit requires that the Annual Report include the SMA and associated Outfall (Permitted Feature) and Site(s) numbers/identifications.

As of December 31, 2012, 405 Sites assigned to 250 Permitted Features/SMAs are included in the Permit. Assignment of SMAs to Sites is provided in Appendix A of the Permit. Assignment of SMAs to Permitted Features (i.e., outfall numbers) is provided in Appendix D of the Permit. Site, SMA, and Permitted Features, allowed to discharge storm water as of December 31, 2012, are summarized in Table 1-2. For administrative convenience, Table 1-2 of this Annual Report is organized from north to south according to the seven major watersheds on the Pajarito Plateau.

On December 20, 2012, the New Mexico Environment Department (NMED) approved a request by the Permittees to split one of the 405 Sites [32-002(b)] into two Sites [32-002(b1) and 32-002(b2)] for the purpose of expediting corrective actions under the March 2005 Compliance Order on Consent (the Consent Order). The drainage of the SMA associated with these Sites was unaffected by this administrative change. This change is reflected in Tables 1-2 and 1-3 that list and summarize the Permitted Features, SMAs, and Sites associated with each of the major watersheds.

2.0 BASELINE CONTROL MEASURES ACTIVITIES

The Laboratory completed baseline control measure (BCM) installation and certification activities in 2010 and 2011 and successfully met the Part I.B.1 requirements within the Permit deadlines as detailed in Individual Permit Appendix E.

Following the installation and certification of the BCMs, the Laboratory continued field efforts in 2012 to install additional controls. All controls installed were maintained in effective operating condition per Part I.B.2 of the Permit. Controls were repaired or replaced when any inspection, event, or observation identified that it was not operating effectively.

2.1 Description of Baseline Control Measures

> Part I.H.2(e) of the Permit requires that the Annual Report provide a description of baseline control measures installed, including the completion date or targeted completion date.

A detailed list of all BCMs installed and operating on December 31, 2012, at each SMA is provided in Appendix C of this Annual Report. The general types and intended purposes of BCMs include the following:

- Erosion control (EC) and sediment control (SC) measures: These BCMs are intended to minimize the potential for erosion when storm water runoff flows across an area and to retain transported sediment onsite.
- Run-on control (RON) and runoff control (ROFF): These BCMs are intended to divert, infiltrate, reuse, contain, or otherwise reduce storm water run-on and/or runoff.
- The Permit specifies the types of BCMs installed by SMA and the purpose of each type of control measure in Appendix E, Table E-1. Additional baseline controls installed and enhanced controls are also assigned EC, SC, RON, and ROFF functionality as described in Appendix C to this Annual Report.

2.2 Additional Control Measures

The Laboratory continued a field effort during 2012 to supplement certified BCMs with additional control measures at some SMAs. These supplemental control measures consisted of earthen, rock, and base course berms; riprap; seed and wood mulch; sediment basins; and water bars.

Table 2-1 summarizes the 50 additional controls that were installed at 21 SMAs during 2012, and the 89 controls that were installed to replace retired controls at 47 SMAs during 2012.

3.0 MONITORING RESULTS

Section 3 of this Annual Report presents the analytical monitoring results for storm water runoff samples collected at SMAs during the 2012 reporting period. The confirmation sampling conducted after BCMs have been installed and implemented, but before any subsequent corrective actions have been conducted, is described in Section 3.1.1, Baseline Monitoring. Monitoring conducted after enhanced control measures have been installed and implemented is described in Section 3.1.2, Enhanced Control Monitoring.

All analytical results for the Individual Permit storm water monitoring samples are available electronically from the Intellus NM database, available at http://intellusnm.com/. All Individual Permit data from Intellus can be retrieved using the Primary Filter where "Location Group" is equal to "Individual Permit," providing access to data that is within the date range of November 1, 2010, to present, and where "Parameter Groups" include GEN_CHEM, METALS, PCB_CONG, PEST, RAD, SVOC, and HEXP.

3.1 Confirmation Monitoring

The requirements for collecting confirmation monitoring samples following installation of control measures are described in Part I.D of the Permit. Any sampling performed for purposes of confirmation monitoring at a particular SMA must be collected during at least two (2) separate "measurable storm events" occurring at least fifteen (15) days apart. A measurable storm event is defined as a storm that results in an actual discharge from the Site or Sites and that produces sufficient volume to perform the required analyses. Minimum and suggested sample volumes required to perform each specific analysis are presented in Table 3-1. Snow melt samples cannot be used for purposes of confirmation monitoring. Grab samples must be collected beginning within the first thirty (30) minutes of, but beginning no later than one (1) hour after, a measurable storm event. Samples collected as a result of non–storm water discharge, collected after the first hour of discharge, not as the result of actual of storm water discharge from the Site(s) or that do not meet minimum quality requirements of 40 CFR Part 136 are not used as confirmation monitoring samples.

> Part I.H.2(c) of the Permit requires that the Annual Report include monitoring results available during the reporting period.

The pollutants of concern to be monitored during baseline confirmation monitoring for each SMA are specified in Appendix B, of the Permit. At a minimum, all SMAs are initially monitored for metals, gross-alpha radiation, radium-226 + radium-228, and cyanide (weak acid dissociable). Monitoring for polychlorinated biphenyl (PCB) compounds, high explosives, or other organic compounds is also required at some SMAs based on initial evaluations of pollutant sources and individual SWMUs or AOCs. Monitoring must be conducted according to test procedures approved under Title 40 Code of Federal Regulations (CFR) Part 136, with the exception of the other test procedures specified in Part I.C of the Permit. Table 3-2 summarizes the analytical suites of concern for each baseline confirmation monitoring sample collected in 2012. Pollutants of concern monitored during corrective action monitoring can be reduced if prior confirmation monitoring results are below applicable TALs. A minimum of two confirmation samples must be collected and analyzed before a particular pollutant of concern at a particular SMA can be removed from monitoring requirements, except as provided in Part.I.E.5(d) and (e) of the Permit.

- Storm water discharge monitoring results based on validated analytical data showing pollutant concentrations above applicable TALs at any Site indicate corrective action is required as provided in Part I.E of the Permit.
- As provided in Part I.I.6 of the Permit, a TAL exceedance is not a noncompliance with the requirements of the Permit provided that the Permittees take the required corrective action within the relevant deadlines.

SMA storm water runoff samplers were installed and activated at SMAs beginning in March 2012. Baseline confirmation monitoring was conducted at 15 SMAs where storm water runoff samples with sufficient volume were collected and complete analyses performed. Additionally, 7 storm water runoff samples with sufficient volume to perform the required enhanced control confirmation monitoring analyses were collected at 5 SMAs. Table 3-3 summarizes the number of SMAs where one, two, or no samples were collected.

3.1.1 Baseline Monitoring

Part I.H.2(d) of the Permit requires that the Annual Report identify the pollutants which exceed applicable MTALs or ATALs.

- TAL exceedances at 18 SMAs
- MTAL exceedances at 14 SMAs: aluminum, cadmium, copper, cyanide, silver, zinc
- ATAL exceedances at 11 SMAs: cyanide, gross alpha, mercury, Ra-226+Ra-228, Total PCBs

The initial monitoring requirements and frequency of sampling for each pollutant of concern following installation and implementation of baseline control measures vary on a site-by-site basis, as specified in Part I.D.1 of the Permit.

- Baseline control measures were installed and implemented before the November 1, 2010, Permit effective date at 63 SMAs listed in Appendix E, Table E-2, of the Permit. Baseline confirmation monitoring was complete at 19 of these SMAs on October 31, 2011, with the collection of 1 or more confirmation monitoring samples. Baseline confirmation monitoring was extended at 44 SMAs where no confirmation monitoring samples were collected before November 1, 2011.
- Baseline control measures were installed within 6 mo of the effective date of the Permit at 187 SMAs not listed in Appendix E, Table E-2. Baseline confirmation monitoring was complete at 51 of these SMAs on April 30, 2012, with the collection of 1 or more confirmation monitoring samples. Baseline confirmation monitoring was extended at 136 SMAs where no confirmation monitoring samples were collected before May 1, 2012.
- Extended baseline confirmation monitoring was conducted at 180 SMAs during 2012 with the collection of the first confirmation monitoring sample from a measurable storm event at 15 SMAs. If no confirmation sample could be collected by October 31, 2011, or April 30, 2012, from a measurable storm event, Part I.E.5(e) of the Permit requires that confirmation sampling shall continue until at least 1 sample is collected.

Baseline confirmation monitoring samples collected during 2012 are summarized in Table 3-2. This table summarizes the analytical suites and analytes and pertinent information for the storm event that resulted in an actual discharge from the Sites as required by Part I.D.3 of the Permit. The meteorological data are taken from the rain gage assigned to each SMA, as discussed in Section 6.1, Post-Storm Inspections, of this Annual Report. Samples collected at PJ-SMA-14.2 and PJ-SMA-14.3 on July 11, 2012, and submitted for analysis were subsequently determined not to meet the criteria for confirmation monitoring, as summarized in Table 3-4 and are not used to assess the effectiveness of the implemented control measures.

Baseline confirmation monitoring was completed and a TAL exceedance was not observed at three SMAs: ACID-SMA-1.05, PJ-SMA-14.8, and 2M-SMA-2.5. The Sites associated with these SMAs have not been advanced to Corrective Action and storm water monitoring has ended. No further confirmation sampling is required, except as directed by Part I.E.5(c) of the Permit.

3.1.2 Enhanced Control Monitoring

Enhanced control measures were installed and implemented at 42 SMAs in 2012. Monitoring of storm water associated with these enhanced controls was complete at 2 of these SMAs on December 31, 2012, with the collection of 2 confirmation monitoring samples. Corrective action monitoring continued at 40 SMAs. Enhanced control confirmation monitoring samples collected during 2012 are presented in Table 3-5. This table summarizes the analytical suites and analytes and pertinent information for the storm event that resulted in an actual discharge from the Sites, as required by Part I.D.3 of the Permit. The meteorological data are collected from the rain gage assigned to each SMA, as discussed in Section 6.1, Post-Storm Inspections, of this Annual Report.

The sample collected at LA-SMA-5.31 on October 12, 2012, and submitted for analysis was subsequently determined to not meet the criteria for confirmation monitoring, as summarized in Table 3-4, and is not used to assess the effectiveness of implemented control measures.

The validated analytical monitoring results for confirmation samples are compared with the applicable TALs established in Part I.C of the Permit. Table 3-6 summarizes the applicable maximum TAL (MTAL) and average TAL (ATAL) exceedances for the confirmation monitoring samples collected in 2012. Section 4 of this report discusses the identification of Sites associated with 13 SMAs advanced to the Corrective Action phase of the Permit based on TAL exceedances observed during baseline confirmation monitoring during 2012.

3.2 Confirmation Monitoring Analytical Data

The 2012 confirmation monitoring analytical results for metals, general inorganics, radioactivity, total PCBs, and other detected organics are presented in separate tables in Appendix B.

4.0 CORRECTIVE ACTION ACTIVITIES

If confirmation monitoring sample results demonstrate that one or more TALs are exceeded at a Site, Part I.E, requires the Permittees to initiate corrective action. Corrective action consists of one of the following: (i) enhance control measures to meet the TAL, (ii) total retention of storm water discharges from the Site, (iii) total elimination of exposure of pollutants to storm water at the Site, or (iv) receipt of an NMED issued certificate of completion under the RCRA Consent Order.

Part I.E.4 of the Permit categorizes the Sites into “High Priority Sites” and “Moderate Priority Sites” and establishes deadlines for corrective action based on this prioritization.

- If TALs are exceeded from a baseline confirmation monitoring sample collected before September 30, 2012, the Permittees are required to certify completion of corrective action at “High Priority Sites” within three (3) years of the effective date of the Permit (October 31, 2013).
- If a baseline confirmation monitoring sample was not collected by September 30, 2012, the Permittees are required to certify completion of corrective action at “High Priority Sites” within one (1) year following the first successful confirmation sampling event.
- Permittees are required to certify completion of corrective action at “Moderate Priority Sites” within five (5) years of the effective date of the Permit (October 31, 2015).

As of September 30, 2012, baseline confirmation monitoring samples had not been collected at 21 SMAs associated with 46 unique high priority sites. For these Sites, the compliance deadline to complete corrective action will be extended from October 31, 2013, to 1 yr following collection of the first successful confirmation sample. These Sites and their associated SMAs are presented in Table 4-1. Counts of the Permit phase of SMAs associated with High Priority Sites and Moderate Priority Sites as of December 31, 2012 are provided in Table 4-2.

4.1 Corrective Actions Required

Part I.H.2(f) of the Permit requires that the Annual Report provide a description of corrective actions required under Section E of this Permit to be taken or having been taken, including completion date or targeted completion date, and progress update.

Individual Permit Corrective Action Options
- Enhanced Control Measures
- No Exposure
- Total Retention
- NMED Certificate of Completion

Corrective action has been initiated at 81 SMAs associated with 138 Sites because TAL exceedances were observed during baseline confirmation monitoring.

- Corrective action is being planned at 61 Sites in 35 SMAs.
- Enhanced control measures have been designed and installed at 67 Sites in 42 SMAs.
- Corrective action has been completed at 12 Sites in 10 SMAs through demonstration that the Site has achieved RCRA "Corrective Action Complete without Controls/Corrective Action Complete with Controls" status or a Certificate of Completion under the Consent Order.
- As of December 31, 2012, no Sites have been certified to be complete through all pollutants of concern being less than the TAL, total retention, or no exposure.

4.1.1 Enhanced Control Measures

Part I.E.2(a) of the Permit specifies that completion of corrective action may entail the design and installation of enhanced (additional, expanded, or better tailored) control measures reasonably expected to achieve compliance with TALs for all Sites within an SMA drainage area. After certification of installation of enhanced controls, the Permittees must attempt to collect at least two confirmation monitoring samples (one confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart. If either validated confirmation analytical result for any specific pollutant of concern exceeds applicable TALs, the Permittees shall conduct visual inspections for all Sites within the SMA drainage area, reevaluate the existing control measures, and initiate further measures to achieve completion of corrective as soon as practicable. Table 4-3 summarizes the 151 enhanced controls installed at 45 SMAs in 2012. Enhanced control installation is not complete at three SMAs listed in Table 4-3: DP-SMA-0.3, 2M-SMA-1.8, and 2M-SMA-2.2.

There are no Sites where corrective action has been completed under Part I.E.2(a) of the Permit.

4.1.2 Total Retention

Part I.E.2(b) of the Permit specifies that completion of corrective action may also be achieved through installation of control measures that "totally retain and prevent the discharge of storm water" from a Site. No further confirmation sampling is required under this option, unless required by Part I.E.5(c) of the Permit.

Design of a storm water management system to complete corrective action using the total retention alternative requires a specific storm water volume be determined for which retention is to be provided. This storm water volume is calculated uniquely based on precipitation depth over a specified area and the unique conditions of each SMA. The Permit does not identify either a specific volume or precipitation depth upon which to base the "total retention" design. Therefore, the Laboratory determined a specified precipitation depth to be used when designing "total retention" control measures. Related to federal facilities, the Energy Independence and Security Act of 2007 (EISA) Section 438 provides guidance for designing retention structures. To implement EISA, EPA issued EPA 841-B-09-001 "Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act," in December 2009. Following the EPA guidance, precipitation data from four Laboratory rain gauges (periods of record ranging from 20 to 25 yr) and the Los Alamos National Oceanic and Atmospheric Administration gage (60-yr period of record) were analyzed. Data were analyzed on both an annual basis and the Permit monitoring period (April–November). The highest precipitation depth of the 95th percentile storm for all locations was 1.00 in. based on the Permit monitoring period. Using this guidance when providing "total retention" to certify Completion of Corrective Action under the Permit, a 1.00-in. precipitation depth is proposed to be used to certify and demonstrate to EPA that measures have been installed to perform their function to totally retain discharges of storm water.

There are no Sites where corrective action has been completed under Part I.E.2(b) of the Permit.

4.1.3 No Exposure

> Part I.H.2(g) of the Permit requires that the Annual Report identify Sites which meet No Exposure status.

Part I.E.2(c) of the Permit specifies that completion of corrective action may be accomplished through the installation of control measures to totally eliminate exposure of pollutants to storm water at a Site. Once the control measures have been certified and submitted to EPA, no further confirmation sampling is required, unless required by Part I.E.5(c) of the Permit. Thereafter, the Permittees shall collect one (1) sample and make the analytical results available via email notification and on the public website pursuant to Part I. I.7 of the Permit.

There are no Sites where corrective action has been completed under Part I.E.2(c) of the Permit.

4.1.4 Certificate of Completion under NMED's Consent Order

> Part I.H.2(h) of the Permit requires that the Annual Report identify Sites which meet "corrective action complete without controls/corrective action complete with controls" under RCRA or which have been issued a Certificate of Completion under the NMED Consent Order.

Part I.E.2(d) of the Permit specifies a fourth option for completing corrective action through demonstration that the Site has achieved RCRA "corrective action complete without controls/corrective action complete with controls" status or a Certificate of Completion under NMED's Consent Order. Once completion of corrective action has been certified and submitted to EPA, no further confirmation sampling is required except as provided by Part I.E.5(c) and I.2(b) of the Permit.

The Consent Order requires the Laboratory to remediate a SWMU or AOC when site investigations identify conditions that are potentially adverse to human health and the environment. The Consent Order remediation process is complete at a SWMU or AOC when the Laboratory has demonstrated and documented to the regulatory authority's satisfaction that the Site poses no unacceptable risk or dose to humans and ecological resources, such as plants and animals.

Two potential outcomes are possible when a remedial action is performed under the Consent Order to address a release from a SWMU or AOC. The first outcome is that no hazardous constituents from the release are present at concentrations above the conservative, risk-based levels specified in the Consent Order. This type of remediation results in a certificate of completion without controls. That is, no restrictions on land use are required.

The second outcome is where the remediation of the release is not complete (e.g. hazardous constituents in soil are below industrial soil screening levels (SSLs) but above residential SSLs. This type of remedy employs long-term stewardship activities to prevent potential adverse exposures, such as restricting on-site exposures to the hazardous constituents, restricting access to the Site, and/or performing surveillance and monitoring as long as necessary. This type of remediation results in a certificate of completion with controls.

As of December 31, 2012, twenty-eight (28) Sites have been issued Certificates of Completion under the Consent Order, as listed in Table 4-4. At twelve (12) Sites listed in Table 4-5, corrective action is complete under Part I.E.2(d) of the Permit. The remaining 16 Sites with Certificates of Completion under the Consent Order are not in Corrective Action under Part I.E of the Permit (15 Sites), or the Permittees have not yet certified completion of corrective action to EPA (1 Site).

4.2 Description of Corrective Actions Planned

Corrective action has been initiated but a method to achieve completion of corrective action has not been implemented at 65 Sites in 37 SMAs, as summarized in Table 4-6. Included in this summary are Sites C-43-001, LA-SMA-1.25, and Site 03-010(a), 2M-SMA-1, where TAL exceedances were observed following the installation of enhanced controls in two confirmation monitoring samples.

4.3 Additional Sampling Requirements

Part I.E.1(b) of the Permit requires that the Permittees collect one sample for informational purposes following installation of control measures to totally eliminate exposure of pollutants to storm water at a Site. No SMAs/Sites required additional sampling during the 2012 annual reporting period.

4.4 Evidence of Runoff Where Monitoring Has Ceased

Part I.E.5(c) of the Permit requires that if Site(s) where monitoring has ceased to exhibit any of the following conditions,

- evidence of discharge of contaminated runoff, or
- conditions that could lead to a discharge of contaminated runoff, or
- other monitoring data shows an exceedance of applicable target action levels,

the Permittees shall initiate appropriate actions to correct the identified problems within thirty (30) days of being made aware of the situation. As of December 31, 2012, evidence of runoff has not been identified at any Site where monitoring has ceased.

5.0 ALTERNATIVE COMPLIANCE

No SMAs/Sites were proposed for Alternative Compliance status during the 2012 annual reporting period.

6.0 SUMMARY OF INSPECTIONS

> Part I.H.2(k) of the Permit requires that the Annual Report summarize inspections performed in accordance with Sections G.1 (Erosion Inspections and Reevaluation) and G.2 (Post-Storm Inspection) as well as for any visual inspections performed under Section E.1 (Confirmation Results above Target Action Levels).

This section summarizes activities undertaken by the Permittees during the 2012 annual reporting period to meet the requirements for five types of inspections specified in Part I.

Post-Storm Inspection—Part I.G.2: Inspections of control measures at any Site affected by a "storm rain event" are reported in Section 6.1 of this report.

Annual Erosion Evaluation Inspection—Part I.G.1: Annual Site-specific inspection for changes of conditions affecting erosion or after notice of a significant event which could impact the control measures are reported in Section 6.2 of this report.

Significant Event Inspection—Part I.G.1: Site-specific inspection after notice of a significant event that could impact the control measures are reported in Section 6.3 of this report.

Visual Inspection for TAL Exceedances—Part I.E.1: Visual inspections for all Sites at SMAs where TAL exceedances are observed are reported in Section 6.4 of this report.

Remediation Construction Activity Inspections—Part I.I.1: Weekly inspections to ensure sediment and runoff control measures are maintained in good order at Sites where remediation construction activities, such as control measure installation, cause soil disturbance are reported in Section 6.5 of this report.

Sampler Inspections—Part I.D.3: Inspections of sampling equipment performed to collect water and to maintain samplers in operating condition are reported in Section 6.6 of this report.

6.1 Post-Storm Inspections

Part I.G.2 of the Permit requires that the facility's Pollution Prevention Team (PPT) inspect control measures and storm water management devices at any Site affected by a "storm rain event" within 15 calendar days after such storm rain event. A "storm rain event" is defined as a 0.25 in. or more intensive rain event occurring within 30 min. If several storms exceeding the above intensity threshold occur over a period not to exceed 15 d from the first event, a single inspection following these storms is sufficient for compliance, provided that the inspection occurs no more than 15 d from the date of the first storm.

Precipitation data is collected year-round at meteorological towers. In addition, an extensive seasonal rain gage network is deployed during the months of April to November when rain precipitation is most likely to occur on the Pajarito Plateau. Using a geospatial information system, SMAs are given a seasonal assignment to an individual rain gage using the method of Thiessen polygons. The use of the extended rain gage network directs the PPT response to only those SMAs where precipitation exceeds the established threshold. Table 6-1 lists the rain gages in use for the 2012 season and the numbers of SMAs and Sites assigned to each rain gage. Procedures for managing precipitation data are described in more detail in the Site Discharge Pollution Prevention Plan (SDPPP).

Table 6-2 lists the SMAs where post-storm inspections triggered by “storm rain events” that met or exceeded the 30-min 0.25-in. threshold were conducted in 2012. During the monsoon season (from July to September), several storm rain events occurred over a period less than 15 d from the first event. As allowed by the Permit, a single inspection following these storms was conducted no more than 15 d from the date of the first storm. Table 6-2 indicates where a single inspection was conducted following two or more closely spaced storm rain events.

In 2012, 622 post-storm inspections were conducted at SMAs in response to the triggering storm events. All post-storm inspections were conducted within 15 d of the triggering storm rain event.

6.2 Annual Erosion Evaluation Inspections

Part I.G.1 of the Permit requires that the facility’s PPT inspect and evaluate each Site annually for changes of conditions affecting erosion. Table 6-3 summarizes the 2012 annual erosion evaluation inspections at each of the 250 SMAs/406 Sites.

6.3 Significant Event Inspections

The facility’s PPT must reinspect and reevaluate all Sites after notice of a significant event, such as a fire or flood, that could significantly impact the control measures and environmental conditions in the affected area. Following flooding in upper Cañon de Valle caused by elevated post–Las Conchas fire storm water runoff, CDV-SMA-1.4 was inspected after flood event on July 11, 2012. Extensive damage to control measures and the storm water sampler occurred; backup control measures were implemented. Table 6-4 summarizes these inspections.

6.4 Visual Inspections for TAL Exceedance

Part I.E.1(a) of the Permit requires that if, following installation of baseline or enhanced control measures, any validated sample analytical result for a specific pollutant of concern at a particular SMA is greater than the applicable MTAL or the average of all applicable sampling results is greater than the applicable ATAL (or applicable maximum quantitation limit [MQL], whichever is greater), the Permittees shall conduct visual inspections for all Sites within the SMA drainage area. TAL exceedance inspections were conducted at 50 SMAs during 2012. Table 6-5 summarizes the 51 visual inspections conducted in 2012 in response to TAL exceedances occurring in 2011 and 2012.

6.5 Remediation Construction Activity Inspections

Part I.I.1 of the Permit requires that if soil must be disturbed to install a control measure, the Permittees shall take all necessary steps to minimize migration of sediments and runoff from disturbed sites. The Permittees shall conduct site inspections once a week to ensure sediments and runoff control measures are maintained in good order. Corrective actions shall be taken immediately if deficiencies of control measures are noticed by either inspectors or contractors. Table 6-6 summarizes 93 remediation construction activity inspections conducted at 44 SMAs in 2012.

6.6 Sampler Inspections

Part I.D.3 of the Permit describes the procedures for collecting storm water samples to fulfill the requirements of confirmation monitoring. The facility’s PPT uses programmable Model 3700 Portable Samplers from Teledyne ISCO to collect storm water. Each sampler is configured with a Model 1640 Liquid Level Actuator and is powered by a sealed, rechargeable 12-volt 35-amp-hour lead-acid battery.

Samples are collected in 1-L certified clean polyethylene or glass bottles, as approved for use under 40 CFR Part 136, for the analysis being performed.

Sampling equipment was activated in March and April 2012 for baseline confirmation monitoring and after May for enhanced control confirmation monitoring. Sampling equipment was shut down at the completion of baseline monitoring after sample collection and for the winter in November and December. During periods when samplers were in place, inspections are conducted to confirm sampler operability and to retrieve storm water collected from measurable storm events. Samples from measurable storm events are placed on ice during retrieval from the field and filtered and preserved as specified in 40 CFR Part 136 before they are shipped to off-site subcontracted analytical laboratories. Maximum holding times and required preservation are provided in Table 3-1.

During 2012, sampling equipment was inspected on 1963 different occasions. Samplers were found to be capable of collecting measurable discharges during 1909 inspections. In aggregate, the sampling equipment was capable of collecting measurable discharge during 97.2% of inspections. When samplers were inspected and found not to be ready to collect samples, the days of inoperability were deduced from available information. The estimate of the loss of sampler-days of operability was made from the previous inspection if other information was not available. During inspections, the samplers could not collect measurable discharge under the following circumstances, resulting in the possible loss of sampler-days of operability as noted.

- Table 6-7 describes 5 sampler inspections that produced insufficient sample volume to collect measurable discharge. The sampling equipment remained operable, and no loss of operability resulted.
- Table 6-8 describes 2 sampler inspections when the battery voltage was not sufficient to operate the sampling equipment, resulting in the loss of as many as 39 sampler-days of operability.
- Table 6-9 describes 9 sampler inspections when the sampling equipment was malfunctioning and required repairs, resulting in the loss of as many as 79 sampler-days of operability.
- Table 6-10 describes 9 sampler inspections when the sampling equipment was incorrectly configured, resulting in the loss of as many as 123 sampler-days of operability.
- Table 6-11 describes 12 sampler inspections when the sampling equipment was disturbed, resulting in the loss of as many as 296 sampler-days of operability.
- Table 6-12 describes 53 sampler inspections at 27 SMAs when the sampling equipment was inoperable after it was triggered, resulting in the loss of as many as 692 sampler-days of operability.

Measurable discharge can be generated from precipitation that is less intense than required to trigger a post-storm inspection. However, when a defined “storm rain event” of 0.25-in. or more intensive rain within 30 min occurs as defined in Part I.G.2 of the Permit, all stations associated with the rain gage are inspected for the presence of measurable discharge. The presence of a “storm rain event” during the periods of inoperability are included in Tables 6-7 through 6-12 to help identify where the loss of potential discharge was more likely. Of the 622 unique “storm rain events” summarized in Section 6.1, samplers were inoperable 12 times. The sampling equipment was capable of collecting measurable discharge during 98.1% of “storm rain events.”

7.0 SUMMARY OF SDPPP CHANGES

The original SDPPP was published and submitted to EPA on April 30, 2011, as required by Part I.F.4 of the Permit. The first revision (Revision 1) of the SDPPP was completed and submitted to EPA by May 1, 2012. This requirement states that the SDPPP must be updated annually to fully incorporate all changes made during the previous year and to reflect any changes projected for the following year.

Part I.F.3 of the Permit requires that the Permittees keep at a minimum documents and records with the SDPPP as necessary to reflect the following:

a. Construction or a change in design, operation, or maintenance at the facility having a significant impact on the discharge, or potential for discharge, of pollutants from the facility;
b. Findings of deficiencies in control measures during inspection or based on analytical monitoring results;
c. Any change of monitoring requirement or compliance status;
d. Any change of SMA location; and
e. Summary of changes from the last year's SDPPP.

If any of the circumstances described above occur at any Site, the Permittees must address these changes or deficiencies to ensure compliance with Permit conditions and applicable monitoring requirements. All changes must be incorporated into the SDPPP, and a summary of these changes must be included in the Annual Report.

The 2012 annual update to the SDPPP will be published by May 1, 2013. The following sections summarize the SDPPP changes associated with the requirements in Part I.F.3 of the Permit.

7.1 Activities Impacting Discharge

No construction activities or changes in design, operation, or maintenance at the Sites or adjacent Laboratory facilities resulted in a significant impact on the discharge, or potential for discharge, of pollutants from the Sites.

7.2 Findings of Deficiency

Within the 250 SMAs identified in the Permit, 290 individual control measures were installed from January 1 to December 31, 2012. In 2012, 1017 Permit-required inspections were conducted to assess both the individual control measures and overall site conditions for the 250 SMAs, as summarized in Section 6 of this report. These inspections include required visual inspections based on analytical monitoring results (i.e., TAL exceedances). A finding of deficiency is identified as a required inspection that was not performed or required inspection that was not performed within Permit-defined time frames. There are no findings of deficiency for inspections conducted during 2012.

7.3 Change of Monitoring Requirements or Compliance Status

As identified in the Permit and discussed in Section 8 of this report, Sites moved through six compliance phases during 2012. A change in the compliance status of a Site reflects movement between these phases. Section 8 of this report summarizes the compliance status of Sites and SMAs as of December 31, 2012; the Site compliance status will be included in the 2013 SDPPP annual update. Changes in monitoring requirements are summarized in Section 3 of this report, specifically identifying the

SMAs where baseline confirmation monitoring has been completed and those SMAs where baseline monitoring will continue.

7.4 SMA Location Change

In accordance with Part I.D.2 of the Permit, minor sampler relocations were made at 14 SMAs during 2012. The sampler moves resulted in either minor increases or decreases in the drainage area of the SMA. Sampler coordinates and SMA drainage areas are updated in Attachment 4 in each SDPPP volume. No SMAs were relocated during 2012. Samplers relocated during 2012 are listed in Table 7-1.

7.5 SDPPP Changes

The Laboratory must update the SDPPP annually to incorporate changes made during the previous year, per Part I.F.3 and F.4 of the Permit. Changes from the 2011 SDPPP can be summarized into the following categories:

- Updated descriptions of Site and SMA conditions and features including
    - ❖ new or replaced baseline control measures to describe current control measures;
    - ❖ Site boundary changes; and
    - ❖ minor sampler movements.
- Update Site maps to reflect current control measures and site characteristic changes
- Update change of Site-specific compliance status, including identification of Sites that require Corrective Action per Part I.E of the Permit
- Schedule additional control measure installation
- Update information on monitoring and inspection schedules and procedures
- Include precipitation data from the previous year
- Add training information
- Discuss records and documents associated with the requirements in Part I.F.3 of the Permit
- Update references and procedural documents
- Correct typographical and other scrivener errors

Table 7-2 provides a summary of the types of changes made to each of the five volumes of the SDPPP from January 1 to December 31, 2012. These changes are tracked alongside the current version of the SDPPP and will be incorporated into the annual SDPPP update to be issued by May 1, 2013. A total of 926 changes were made to the five volumes of the SDPPP during this time period.

8.0 COMPLIANCE STATUS

Permitted Sites and SMAs must achieve defined and conditional milestones to remain compliant with the terms of the Individual Permit. By April 30, 2011, the Permittees had fulfilled the requirement to install baseline control measures to address the nonnumeric technology-based effluent limits prescribed by the Permit. Following installation of the baseline control measures, the Permittees had initiated confirmation monitoring to demonstrate the effectiveness of installed control measures. Confirmation monitoring results for pollutants are compared with TALs to determine the effectiveness of the measures. Where confirmation monitoring shows TALs are not being met at a particular Site, the Permittees must take corrective action in accordance with the timelines specified in Part I.E.4 of the Permit by taking additional actions or measures reasonably expected to

- meet applicable TALs at that Site;
- achieve total retention of storm water discharges from the Site;
- totally eliminate exposure of pollutants to storm water at the Site; or
- demonstrate the Site has achieved RCRA "no further action" status or a "Certificate of Completion" under the Consent Order.

In recognition of the number of Sites and the unique characteristics of each Site, Part I.E.4 of the Permit categorizes the Sites into "High Priority Sites" (HPS) and "Moderate Priority Sites" (MPS) and establishes deadlines for corrective action based on this prioritization:

- Permittees are required to certify completion of corrective action at all "High Priority Sites" within three (3) years of the effective date of the Permit (October 31, 2013).
- Permittees are required to certify completion of corrective action at "Moderate Priority Sites" within five (5) years of the effective date of the Permit (October 31, 2015).

The 3- and 5-yr deadlines may be modified by conditions described in Sections E.3, Alternative Compliance, or Additional Sampling Requirements in Part I.E of the Permit.

Table 8-1 summarizes the significant milestones for compliance phases identified under the Individual Permit. In this Annual Report, the compliance status of a specific Permitted Feature/SMA or Site will be described according to the Permit compliance phases and milestones identified in Table 8-1.

8.1 Compliance Status Changes

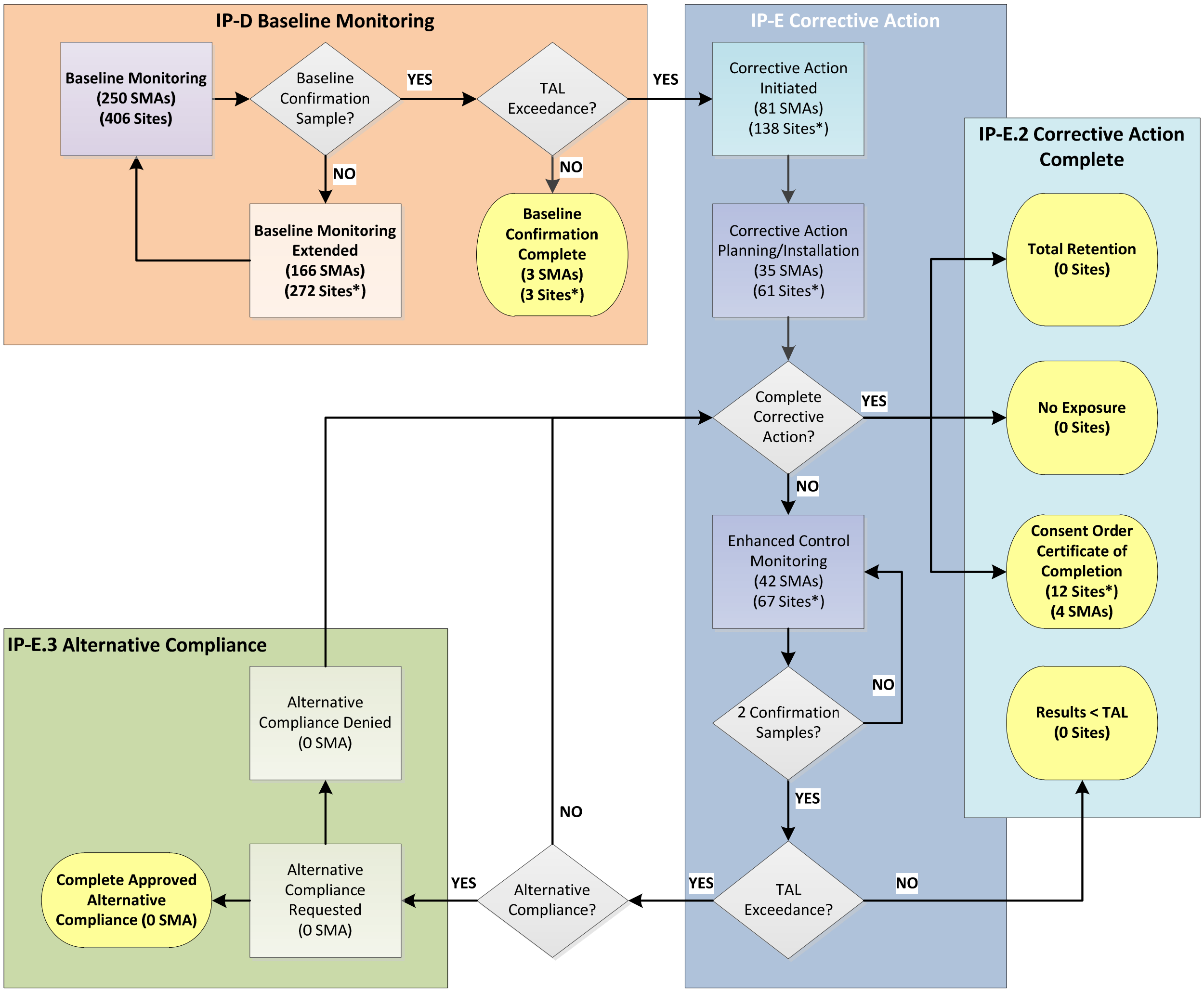
During the 2012 annual reporting period, permitted Sites moved among six compliance phases:

1. Baseline Monitoring
2. Baseline Monitoring Extended
3. Baseline Confirmation Complete
4. Corrective Action Initiated
5. Enhanced Control Monitoring
6. Corrective Action Complete

Part I.H.2(a), H.2(i), and F.3(c) of the Permit require that the Annual Report include a summary of the Site-specific compliance status for each SMA (or Site) during the reporting period and highlight any change of compliance status from the previous Annual Report.

As of December 31, 2012, the status of the Permitted Sites is as follows: (1) by April 30, 2012, Baseline Monitoring was completed at all SMAs; (2) Baseline Monitoring Extended was continued at 166 SMAs associated with 272 sites; (3) Baseline Confirmation Complete was obtained at 3 Sites with 3 associated SMAs; and (4) Corrective Action was initiated at 138 Sites with 81 associated SMAs. Of the Sites where corrective action has been initiated, (5) Enhanced Control Monitoring was initiated at 42 SMAs associated with 67 Sites, and (6) Corrective Action Complete was certified at 12 Sites associated with 10 SMAs, of which monitoring is complete at 4 SMAs.

The Permit compliance status for the 2012 annual reporting period is summarized in Table 8-2 and in shown in Figure 8-1. The Site-specific compliance status is provided in Table 8-3.



*Counts of unique Sites in each stage are presented.

Figure 8-1 Permit compliance status as of December 31, 2012

8.1.1 Baseline Monitoring

Baseline monitoring was initiated at all SMA and Sites in 2011. Baseline monitoring ended by October 31, 2011, at 63 SMAs where baseline control measures were installed and implemented before the effective date of the Permit. Baseline monitoring ended at the remaining 187 SMAs by April 30, 2012.

- At 63 SMAs where baseline monitoring ended on October 31, 2011,
  - ❖ Corrective action was initiated at 18 of the 63 SMAs (36 associated Sites) because a TAL was exceeded;
  - ❖ Baseline confirmation was completed at one SMA (one associated Site) because no TALs were exceeded; and
  - ❖ Baseline monitoring was extended at the remaining 44 SMAs (68 associated Sites) because no baseline confirmation monitoring samples could be collected by the date milestones.

- At 187 SMAs where baseline monitoring ended on April 30, 2012,
  - ❖ Corrective action was initiated at 50 of the 187 SMAs (100 associated Sites) because a TAL was exceeded;
  - ❖ Baseline confirmation was completed at one SMA (one associated Site) because no TALs were exceeded; and
  - ❖ Baseline monitoring was extended at the remaining 136 SMAs, (235 associated Sites) because no baseline confirmation monitoring samples could be collected by the date milestones.

8.1.2 Baseline Monitoring Extended

Baseline monitoring was extended at 44 SMAs associated with 68 Sites on November 1, 2011, and at 136 SMAs associated with 235 Sites on May 1, 2012, where no baseline confirmation monitoring samples could be collected by the date milestones.

During the 2012 monitoring season, confirmation monitoring samples were collected at 15 SMAs in the Baseline Monitoring Extended phase.

- Corrective action was initiated at 13 of the 15 SMAs because confirmation monitoring samples collected exceeded TALs.
- One of 15 SMAs (CDV-SMA-2.5) did not have any TAL exceedances, but the semivolatile analyses did not meet minimally acceptable quality criteria so the results were not accepted for confirmation monitoring; thus, the sample did not fulfill the requirements to move into the Baseline Confirmation Complete Phase or the Corrective Action Initiation Phase and will remain in the Baseline Monitoring Extended phase until a complete confirmation monitoring sample can be collected and analyzed.
- One of the 15 SMAs (2M-SMA-2.5) did not have any TAL exceedances, and fulfilled the requirements to move into the Baseline Confirmation Complete Phase.

On December 20, 2012, NMED approved a request by the Permittees to split one of the Baseline Monitoring Extended Sites [32-002(b)] into two Sites [32-002(b1) and 32-002(b2)] for the purpose of expediting Consent Order corrective actions. This action increased the number of Sites in the Baseline Monitoring Extended phase by one, but did not impact monitoring at the associated SMA, LA-SMA-5.361.

8.1.3 Baseline Confirmation Complete

Baseline confirmation is complete at three Sites associated with three SMAs. Analytical results for all pollutants of concern are at or below the MTALs, and the geometric means of all applicable sampling results are at or below the ATALs, or the applicable MQLs, whichever is greater. No further sampling is required for the Sites within the applicable SMAs for the remaining period of the Permit.

> Part I.E.1(d) of the Permit extends the compliance deadline for High Priority Sites. If no confirmation sample could be collected due to lack of a measurable storm event before the second year of the Permit (or before September 30, 2012), then the compliance deadlines for corrective action under Section E.4 below shall be extended for a one- (1-) year period following the first successful confirmation sampling event.

8.1.4 Corrective Action Initiated

Corrective action is initiated as a result of a TAL exceedance during baseline confirmation monitoring.

- Corrective action was initiated at 37 Sites, associated with 18 SMAs, where baseline monitoring ended on October 31, 2011.
- Corrective action was initiated at 78 Sites, associated with 50 SMAs, where baseline monitoring ended on April 30, 2012.
- Corrective action was initiated at 27 Sites, associated with 13 SMAs, where confirmation monitoring samples were collected during extended baseline monitoring in the 2012 monitoring season.

As of December 31, 2012, corrective action had been initiated at 81 SMAs associated with 138 Sites, and completion of installation of control measures had not been certified at 35 SMAs associated with 61 Sites.

8.1.5 Enhanced Control Monitoring

The corrective action selected at 67 Sites associated with 42 SMAs was to install enhanced control measures to achieve compliance with TALs for all Sites within the each SMA drainage area.

- Two confirmation monitoring samples were collected at two SMAs during the 2012 monitoring year. Because TALs were exceeded at these two SMAs, the existing control measures will be reevaluated, and further measures to achieve completion of corrective action will be initiated.
- One confirmation monitoring sample was collected at two SMAs during the 2012 monitoring year. Monitoring will continue at these SMAs until a second confirmation monitoring sample can be collected.
- No confirmation monitoring samples were collected at 38 SMAs during the 2012 monitoring year. Monitoring will continue at these SMAs until two confirmation monitoring samples can be collected.

8.1.6 Corrective Action Complete

Following initiation of corrective action, compliance with the Permit can be achieved by installing and certifying measures reasonably expected to meet TALs at the Site, achieve total retention of storm water discharges from the Site, totally eliminate exposure of pollutants to storm water at the Site or demonstrate that the Site has achieved RCRA “corrective action complete without controls/corrective action complete with controls” status or a Certificate of Completion under the Consent Order.

During 2012, corrective action was completed at 12 Sites associated with 10 SMAs. The corrective action selected was a demonstration that each Site achieved a RCRA “Corrective Action Complete without Controls/Corrective Action Complete with Controls” status or a Certificate of Completion under the Consent Order. Section 4 of this report discusses further corrective action activities. All Sites associated with four SMAs were certified as corrective action complete, and monitoring of storm water discharges will cease at these four SMAs. One additional Site, 32-004, in corrective action received a Certificate of Completion under the Consent Order on December 28, 2012. This site will be certified as Corrective Action Complete in 2013.

8.2 24-Hour Reporting

Part II.B of the Permit requires that exceedances of MTALs for any applicable pollutants are reported orally to EPA Region 6 and NMED Surface Water Quality Bureau (SWQB), within 24 h from the time the Permittees become aware of the exceedance. During 2012, EPA Region 6 and the NMED-SWQB were notified of each MTAL exceedance listed in Table 3-6.

Part I.E.1(c) of the Permit requires the reporting of the first confirmation monitoring results obtained following installation of enhanced controls to EPA within 30 d of receipt of results. The first sampling results from samples collected at 2M-SMA-1, LA-SMA-1.25, and M-SMA-10.01 were certified to EPA in 2012.

8.3 Website Updates

Part I.I.7(a) of the Permit requires the Permittees to establish a website allowing public access to this Annual Report and other specified documents. The website is available at http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php. Alternatively, the individual web pages can be accessed from the Laboratory's public home page by searching for the term "Individual Permit."

During 2012, the following documents were added to the Individual Permit web pages on the Laboratory's public website.

- The five Revision 1 volumes of the Site Discharge Pollution Prevention Plan are available from the Individual Permit Documents page from the "Storm Water Plans" drop-down list.
- The 2011 Annual Report, 2011 Compliance Status Report, and 2011 Target Action Level Exceedance Report are available from the Individual Permit Documents page from the "Regulatory Documents" drop-down list.
- Summary Status Reports of activities conducted for the Individual Permit are available from the Individual Permit Documents page from the "Updates" drop-down list.
- Reports related to the Individual Permit providing general interest and background information are provided at the Individual Permit Documents page from the "Related Documents" drop-down list.

8.4 Email Notification

Part I.I.7(b) of the Permit requires the Permittees to establish a mechanism for the public to subscribe to email notifications about compliance with the Permit on the public web site. The "Subscribe" function is established and is available from each Individual Permit web page.

8.5 Public Meetings

Part I.I.7(c) of the Permit establishes a requirement for public meeting to be held approximately every 6 mo. Public meetings are advertised through the email notification process and in local newspapers. In 2012 public meetings were held on January 26, July 12, and December 13. The agenda and presentations for these meetings are available at the Individual Permit Public Meetings page. Additionally, meetings with the technical oversight team were held on March 12 and November 8, 2012.

9.0 CHANGES IN COMPLIANCE STATUS FROM LAST ANNUAL REPORT

Part I.D.4(a) and (b) allow the reduction of monitoring requirements if confirmation results are below applicable TALs.

- If all analytical results for a particular pollutant of concern at a particular SMA are at or below the MTAL and the average of all applicable sampling results is at or below the ATAL or the applicable MQL, whichever is greater, monitoring of that pollutant at the SMA is no longer required for the remaining period of the Permit.
- Similarly, if the analytical results for all pollutants of concern at a particular SMA are at or below the MTALs and the average of all applicable sampling results is at or below the ATALs or the applicable MQLs, whichever is greater, no further sampling is required for the Site or group of Sites within the associated SMA for the remaining period of the Permit.

A minimum of two (2) confirmation samples must be collected and analyzed before a particular pollutant of concern or a particular SMA may be removed from monitoring requirements, except as provided in Part I.E of the Permit:

- If during any period in which two confirmation samples are required only one confirmation sample could be collected from a measurable storm event, compliance with the applicable TALs will be determined by the single confirmation sample result [Part I.E.5(d)].
- If no confirmation sample could be collected during the applicable period from a measurable storm event, confirmation sampling shall continue until at least one sample is collected, and compliance with applicable TALs will be determined based on the single result from the first successful confirmation sampling event. [Part I.E.5(e)].

The Laboratory has discontinued monitoring at three SMAs based on the above criteria: 2M-SMA-2.5, ACID-SMA-1.05, and PJ-SMA-14.8. Inspection of the Sites and installed controls will continue in accordance with Part I.G of the Permit, and all control measures will be maintained in effective operating condition as required by Part I.B.2 and E.5(c).

10.0 REQUESTS FOR EPA APPROVAL

Part I.H.2(j) of the Permit provide lists of requests, for EPA's approval, including any requests for change of monitoring location or Site deletion and any requests to place a Site or Sites into alternative compliance (Part 1.E.3 of the Permit)

No requests for EPA approval were submitted by the Permittees during the 2012 annual reporting period.

On December 20, 2012, the Laboratory received approval from NMED to split SWMU 32-002(b) into two separate SWMUs designated SWMU 32-002(b1) and SWMU 32-002(b2). The Individual Permit associates former Site 32-002(b) with the drainage designated by LA-SMA-5.361 and Permitted Feature L017. The newly designated Sites will continue to be associated with the same SMA and Permitted Feature. The Site designation of 32-002(b) will be retired. Tables 1-2 and 2-3 have been modified to reflect this update.

There are several typographical errors that the Permittees will seek to have corrected during the Permit renewal cycle, including the following:

- A typographical error in the Individual Permit Appendix B incorrectly identifies Site 46-004(e2) as part of CDB-SMA-0.55. This Site is within the drainage area of CDB-SMA-0.25. Tables 1-2 and 2-3 have been modified to reflect this correction.

11.0 REFERENCES

EPA (U.S. Environmental Protection Agency), September 30, 2010. "Authorization to Discharge under the National Pollutant Discharge Elimination System, NPDES Permit No. NM 0030759," Region 6, Dallas, Texas. (EPA 2010, 213450)

NMED (New Mexico Environment Department), September 13, 2006. "Certificates of Completion for Solid Waste Management Units 53-002(a) and 53-002(b), Technical Area 53," New Mexico Environment Department letter to D. Gregory (DOE-LASO) and D. McInroy (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2006, 095421)

NMED (New Mexico Environment Department), January 23, 2008. "Approval of Los Alamos National Laboratory Proposal for No Further Action," New Mexico Environment Department letter to D. Gregory (DOE-LASO) and D. McInroy (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2008, 100116)

NMED (New Mexico Environment Department), April 6, 2010. "Approval, Request for Certificates of Completion for Two Solid Waste Management Units and Five Areas of Concern in the North Ancho Canyon Aggregate Area," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2010, 110430)

NMED (New Mexico Environment Department), September 7, 2010. "Certificates of Completion, Upper Mortandad Canyon Aggregate Area," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2010, 110665)

NMED (New Mexico Environment Department), September 10, 2010. "Certificates of Completion, Upper Los Alamos Canyon Aggregate Area," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2010, 110667)

NMED (New Mexico Environment Department), January 14, 2011. "Certificate of Completion, Pueblo Canyon Aggregate Area, Area of Concern (AOC) 00-018(b)," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2011, 111673)

NMED (New Mexico Environment Department), February 18, 2011. "Certificates of Completion, Upper Sandia Canyon Aggregate Area," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2011, 111821)

NMED (New Mexico Environment Department), June 3, 2011. "Certificates of Completion, Material Disposal Area V, Technical Area 21," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2011, 203706)

NMED (New Mexico Environment Department), May 16, 2012. “Certificates of Completion, One Solid Waste Management Unit and One Area of Concern in the Guaje/Barrancas/Rendija Canyons Aggregate Area,” New Mexico Environment Department letter to P. Maggiore (DOE-LASO) and M.J. Graham (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2012, 520388)

NMED (New Mexico Environment Department), July 13, 2012. “Approval of Request for Certificates of Completion for Six Solid Waste Management Units and One Area of Concern in the Upper Cañada del Buey Aggregate Area,” New Mexico Environment Department letter to P. Maggiore (DOE-LASO) and M.J. Graham (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2012, 520940)

NMED (New Mexico Environment Department), December 20, 2012. “Certificate of Completion, One Area of Concern in the Upper Los Alamos Canyon Aggregate Area,” New Mexico Environment Department letter to P. Maggiore (DOE-LASO) and J.D. Mousseau (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2012, 521776)

NMED (New Mexico Environment Department), December 28, 2012. “Certificates of Completion, Two Solid Waste Management Units and One Area of Concern in the Upper Los Alamos Canyon Aggregate Area,” New Mexico Environment Department letter to P. Maggiore (DOE-LASO) and J.D. Mousseau (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2012, 521746)

Table 1-1
Individual Permit Annual Report Requirements

Part I Requirement		
Part	**Description**	**Annual Report Section**
H.2 (a)	For each SMA (or Site), a summary of the Site-specific compliance status during the reporting period.	8.1, Compliance Status Changes Table 8-3, Site-Specific Compliance Status
H.2 (b)	SMA and associated Outfall and Site(s) numbers/identifications.	1.0, Introduction Table 1-2, Permitted Features, SMAs, and Sites
H.2 (c)	Monitoring results available during the reporting period.	3.0, Monitoring Results Appendix B, Analytical Monitoring Results
H.2 (d)	Identification of pollutants which exceed applicable maximum TAL or average TAL.	3.1, Confirmation Monitoring TAL Exceedances Table 3-6, Summary of Confirmatory Monitoring TAL Exceedances
H.2 (e)	Description of baseline control measures installed, including the completion date or targeted completion date.	2.0, Baseline Control Measures Activities Appendix C, Baseline Control Measures
H.2 (f)	Description of corrective actions required under Section E of this Permit to be taken or having been taken, including completion date or targeted completion date, and Progress update.	4.0, Corrective Actions Activities Table 8-3, Site-Specific Compliance Status
H.2 (g)	Identification of Sites that meet No Exposure status.	4.1.3, No Exposure
H.2 (h)	Identification of Sites that meet “corrective action complete without controls/corrective action complete with controls” under the Resource Conservation and Recovery Act (RCRA) or that have been issued a Certificate of Completion by the New Mexico Environment Department under the Compliance Order on Consent.	4.1.4, Certificate of Completion under NMED’s Consent Order
H.2 (i)	Highlights of any change of compliance status from the Annual Report.	9.0, Changes in Compliance Status from Last Annual Report
H.2 (j)	Lists of requests for the U.S. Environmental Protection Agency’s (EPA’s) approval, including any requests for change of monitoring location or Site deletion and any requests to place a Site or Sites into Section E.3, Alternative Compliance.	10.0, Requests for EPA Approval
H.2 (k)	Summary of inspections performed in accordance with Section G.1 and 2 above, as well as for any visual inspections performed under Section E.1.	6.0, Summary of Inspections Table 6-2, Summary of Post-Storm Inspections Table 6-3, Summary of Annual Erosion Evaluation Inspections Table 6-4, Summary of Significant Event Inspections Table 6-5, Summary of Visual Inspections for TAL Exceedances Table 6-6, Summary of Remediation Construction Activity Inspections
E.5 (c)	Summary of any actions taken under paragraph E.5(c) of the Permit.	7.0, Summary of SDPPP Changes

Table 1-1 (continued)

Part I Requirement		
Part	**Description**	**Annual Report Section**
F.3	Maintenance of documents and records with the SDPPP as necessary to reflect (a)–(e) below. If any of the circumstances described [below] occur at any Site, the Permittees must address these changes or deficiencies to ensure compliance with Permit conditions and applicable monitoring requirements. All changes must be incorporated into the SDPPP and a summary of these changes must be included in the Annual Report.	7.0, Summary of SDPPP Changes
F.3(a)	Construction or a change in design, operation, or maintenance at the facility having a significant impact on the discharge, or potential for discharge, of pollutants from the facility;	7.1, Activities Impacting Discharge
F.3(b)	Findings of deficiencies in control measures during inspection or based on analytical monitoring results;	7.2, Findings of Deficiency
F.3(c)	Change(s) of monitoring requirement or compliance status;	7.3, Change of Monitoring Requirements or Compliance Status
F.3(d)	Change(s) of SMA location; and	7.4, SMA Location Change
F.3(e)	Summary of changes from the last year's SDPPP.	7.5, SDPPP Changes
I.5	This Permit may be reopened and modified in accordance 40 Code of Federal Regulations §122.62. Any changes to monitoring and/or control measure requirements made to the Permit in accordance with such a permit modification shall be addressed in the Annual Report and in the annual SDPPP update.	10.0, Requests for EPA Approval

Table 1-2
Permitted Features, SMAs, and Sites

Watershed	Canyon	Permitted Feature	SMA	Site Number
Los Alamos/Pueblo	Rendija Canyon	R001	R-SMA-0.5	C-00-020
		R002	R-SMA-1	C-00-041
		R003	R-SMA-1.95	00-015
		R004	R-SMA-2.05	00-011(c)
		R005	R-SMA-2.3	00-011(e)
		R006	R-SMA-2.5	00-011(a)
	Bayo Canyon	B001	B-SMA-0.5	10-001(a)
				10-001(b)
				10-001(c)
				10-001(d)
				10-004(a)
				10-004(b)
				10-008
				10-009
		B002	B-SMA-1	00-011(d)
	Pueblo Canyon	P001	ACID-SMA-1.05	00-030(g)
		P002	ACID-SMA-2	01-002(b)-00
				45-001
				45-002
				45-004
		P002A	ACID-SMA-2.01	00-030(f)
		P003	ACID-SMA-2.1	01-002(b)-00
		P004	P-SMA-0.3	00-018(b)
		P005	P-SMA-1	73-001(a)
				73-004(d)
		P006	P-SMA-2	73-002
				73-006
		P007	P-SMA-2.15	31-001
		P008	P-SMA-2.2	00-019
		P009	P-SMA-3.05	00-018(a)
	Los Alamos Canyon	L001	LA-SMA-0.85	03-055(c)
		L002	LA-SMA-0.9	00-017
				C-00-044
		L003	LA-SMA-1	00-017
				C-00-044
		L004	LA-SMA-1.1	43-001(b2)
		L005	LA-SMA-1.25	C-43-001
		L006	LA-SMA-2.1	01-001(f)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Los Alamos/Pueblo	Los Alamos Canyon	L007	LA-SMA-2.3	01-001(b)
		L008	LA-SMA-3.1	01-001(e)
				01-003(a)
		L009	LA-SMA-3.9	01-001(g)
				01-006(a)
		L010	LA-SMA-4.1	01-003(b)
				01-006(b)
		L011	LA-SMA-4.2	01-001(c)
				01-006(c)
				01-006(d)
		L012	LA-SMA-5.01	01-001(d)
				01-006(h)
		L012A	LA-SMA-5.02	01-003(e)
		L013	LA-SMA-5.2	01-003(d)
		L014	LA-SMA-5.35	C-41-004
		L015	LA-SMA-5.31	41-002(c)
		L016	LA-SMA-5.33	32-004
		L017	LA-SMA-5.361	32-002(b1)
				32-002(b2)
		L017A	LA-SMA-5.362	32-003
		L018	LA-SMA-5.51	02-003(a)
				02-003(e)
				02-004(a)
				02-005
				02-006(b)
				02-006(c)
				02-006(d)
				02-006(e)
				02-008(a)
				02-009(b)
				02-011(a)
				02-011(b)
				02-011(c)
				02-011(d)
		L018A	LA-SMA-5.52	02-003(b)
				02-007
				02-008(c)
		L018B	LA-SMA-5.53	02-009(a)
		L018C	LA-SMA-5.54	02-009(c)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Los Alamos/Pueblo	Los Alamos Canyon	L019	LA-SMA-5.91	21-009
				21-021
				21-023(c)
				21-027(d)
		L019A	LA-SMA-5.92	21-013(b)
				21-013(g)
				21-018(a)
				21-021
		L020	LA-SMA-6.25	21-021
				21-024(d)
				21-027(c)
		L021	LA-SMA-6.27	21-021
				21-027(c)
		L022	LA-SMA-6.3	21-006(b)
		L022A	LA-SMA-6.31	21-027(a)
		L023	LA-SMA-6.32	21-021
		L024	LA-SMA-6.34	21-021
				21-022(h)
		L025	LA-SMA-6.36	21-021
				21-024(a)
		L026	LA-SMA-6.38	21-021
				21-024(c)
		L027	LA-SMA-6.395	21-021
				21-024(j)
		L028	LA-SMA-6.5	21-021
				21-024(i)
		L029	LA-SMA-9	26-001
				26-002(a)
				26-002(b)
				26-003
		L030	LA-SMA-10.11	53-002(a)
		L030A	LA-SMA-10.12	53-008
	DP Canyon	D001	DP-SMA-0.3	21-029
		D002	DP-SMA-0.4	21-021
		D003	DP-SMA-0.6	21-021
				21-024(l)
		D004	DP-SMA-1	21-011(k)
				21-021

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Los Alamos/Pueblo	DP Canyon	D005	DP-SMA-2	21-021
				21-024(h)
		D006	DP-SMA-2.35	21-021
				21-024(n)
		D007	DP-SMA-3	21-013(c)
				21-021
		D008	DP-SMA-4	21-021
Sandia	Sandia Canyon	S001	S-SMA-0.25	03-013(a)
				03-052(f)
		S002	S-SMA-1.1	03-029
		S003	S-SMA-2	03-012(b)
				03-045(b)
				03-045(c)
				03-056(c)
		S003A	S-SMA-2.01	03-052(b)
		S004	S-SMA-2.8	03-014(c2)
		S005	S-SMA-3.51	03-009(i)
		S005A	S-SMA-3.52	03-021
		S005B	S-SMA-3.53	03-014(b2)
		S006	S-SMA-3.6	60-007(b)
		S007	S-SMA-3.7	53-012(e)
		S008	S-SMA-3.71	53-001(a)
		S009	S-SMA-3.72	53-001(b)
		S010	S-SMA-3.95	20-002(a)
		S011	S-SMA-4.1	53-014
		S012	S-SMA-4.5	20-002(d)
		S013	S-SMA-5	20-002(c)
		S014	S-SMA-5.2	20-003(c)
		S015	S-SMA-5.5	20-005
		S016	S-SMA-6	72-001
Mortandad	Cañada del Buey	C001	CDB-SMA-0.15	04-003(a)
				04-004
		C002	CDB-SMA-0.25	46-004(c2)
				46-004(e2)
		C003	CDB-SMA-0.55	46-004(g)
				46-004(m)
				46-004(s)
				46-006(f)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Mortandad	Cañada del Buey	C004	CDB-SMA-1	46-003(c)
				46-004(d2)
				46-004(f)
				46-004(t)
				46-004(w)
				46-008(g)
				46-009(a)
				C-46-001
		C005	CDB-SMA-1.15	46-004(b)
				46-004(y)
				46-004(z)
				46-006(d)
		C006	CDB-SMA-1.35	46-004(a2)
				46-004(u)
				46-004(v)
				46-004(x)
				46-006(d)
				46-008(f)
		C007	CDB-SMA-1.54	46-004(h)
				46-004(q)
				46-006(d)
		C008	CDB-SMA-1.55	46-003(e)
		C009	CDB-SMA-1.65	46-003(b)
		C010	CDB-SMA-4	54-017
				54-018
				54-020
	Mortandad Canyon	M001	M-SMA-1	03-050(a)
				03-054(e)
		M002	M-SMA-1.2	03-049(a)
		M002A	M-SMA-1.21	03-049(e)
		M002B	M-SMA-1.22	03-045(h)
		M003	M-SMA-3	48-001
				48-005
				48-007(c)
		M004	M-SMA-3.1	48-001
				48-007(b)
		M005	M-SMA-3.5	48-001
				48-003

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Mortandad	Mortandad Canyon	M006	M-SMA-4	48-001
				48-005
				48-007(a)
				48-007(d)
				48-010
		M007	M-SMA-5	42-001(a)
				42-001(b)
				42-001(c)
				42-002(a)
				42-002(b)
		M008	M-SMA-6	35-016(h)
		M009	M-SMA-7	35-016(g)
		M010	M-SMA-7.9	50-006(d)
		M011	M-SMA-9.1	35-016(f)
		M012	M-SMA-10	35-008
				35-014(e)
		M012A	M-SMA-10.01	35-016(e)
		M013	M-SMA-10.3	35-014(e2)
				35-016(i)
		M014	M-SMA-11.1	35-016(o)
		M015	M-SMA-12	35-016(p)
		M016	M-SMA-12.5	05-005(b)
				05-006(c)
		M017	M-SMA-12.6	05-004
		M018	M-SMA-12.7	05-002
				05-005(a)
				05-006(b)
				05-006(e)
		M019	M-SMA-12.8	05-001(a)
				05-002
		M020	M-SMA-12.9	05-001(b)
				05-002
		M021	M-SMA-12.92	00-001
		M022	M-SMA-13	05-001(c)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Mortandad	Ten Site Canyon	T001	Pratt-SMA-1.05	35-003(h)
				35-003(p)
				35-003(r)
				35-004(h)
				35-009(d)
				35-016(k)
				35-016(l)
				35-016(m)
		T002	T-SMA-1	50-006(a)
				50-009
		T003	T-SMA-2.5	35-014(g3)
		T004	T-SMA-2.85	35-014(g)
				35-016(n)
		T005	T-SMA-3	35-016(b)
		T006	T-SMA-4	35-004(a)
				35-009(a)
				35-016(c)
				35-016(d)
		T007	T-SMA-5	35-004(a)
				35-009(a)
				35-016(a)
				35-016(q)
		T008	T-SMA-6.8	35-010(e)
		T009	T-SMA-7	04-003(b)
		T010	T-SMA-7.1	04-001
				04-002
Pajarito	Twomile Canyon	E001	2M-SMA-1	03-010(a)
		E002	2M-SMA-1.42	06-001(a)
		E003	2M-SMA-1.43	22-014(a)
				22-015(a)
		E004	2M-SMA-1.44	06-001(b)
		E005	2M-SMA-1.45	06-006
		E006	2M-SMA-1.5	22-014(b)
		E007	2M-SMA-1.65	40-005
		E008	2M-SMA-1.67	06-003(h)
		E009	2M-SMA-1.7	03-055(a)
		E010	2M-SMA-1.8	03-001(k)
		E011	2M-SMA-1.9	03-003(a)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Pajarito	Twomile Canyon	E012	2M-SMA-2	03-050(d)
				03-054(b)
		E013	2M-SMA-2.2	03-003(k)
		E014	2M-SMA-3	07-001(a)
				07-001(b)
				07-001(c)
				07-001(d)
		E015	2M-SMA-2.5	40-001(c)
	Threemile Canyon	H001	3M-SMA-0.2	15-010(b)
		H002	3M-SMA-0.4	15-006(b)
		H003	3M-SMA-0.5	15-006(c)
				15-009(c)
		H004	3M-SMA-0.6	15-008(b)
		H005	3M-SMA-2.6	36-008
				C-36-003
		H006	3M-SMA-4	18-002(b)
				18-003(c)
				18-010(f)
	Pajarito Canyon	J001	PJ-SMA-1.05	09-013
		J002	PJ-SMA-2	09-009
		J003	PJ-SMA-3.05	09-004(o)
		J004	PJ-SMA-4.05	09-004(g)
		J005	PJ-SMA-5	22-015(c)
		J006	PJ-SMA-5.1	22-016
		J007	PJ-SMA-6	40-010
		J008	PJ-SMA-7	40-006(c)
		J009	PJ-SMA-8	40-006(b)
		J010	PJ-SMA-9	40-009
		J012	PJ-SMA-10	40-006(a)
		J013	PJ-SMA-11	40-003(a)
		J014	PJ-SMA-11.1	40-003(b)
		J015	PJ-SMA-13	18-002(a)
		J016	PJ-SMA-13.7	18-010(b)
		J017	PJ-SMA-14	54-004
		J018	PJ-SMA-14.2	18-012(b)
		J019	PJ-SMA-14.3	18-003(e)
		J020	PJ-SMA-14.4	18-010(d)
		J021	PJ-SMA-14.6	18-010(e)
		J022	PJ-SMA-14.8	18-012(a)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Pajarito	Pajarito Canyon	J023	PJ-SMA-16	27-002
		J024	PJ-SMA-17	54-018
		J026	PJ-SMA-18	54-014(d)
				54-017
		J025	PJ-SMA-19	54-013(b)
				54-017
				54-020
		J027	PJ-SMA-20	54-017
		J028	STRM-SMA-1.05	08-009(f)
		J029	STRM-SMA-1.5	08-009(d)
		J030	STRM-SMA-4.2	09-008(b)
		J031	STRM-SMA-5.05	09-013
Water/Cañon de Valle	Cañon de Valle	V001	CDV-SMA-1.2	16-017(b)-99
				16-029(k)
		V002	CDV-SMA-1.3	16-017(a)-99
				16-026(m)
		V003	CDV-SMA-1.4	16-020
				16-026(l)
				16-028(c)
				16-030(c)
		V004	CDV-SMA-1.45	16-026(i)
		V005	CDV-SMA-1.7	16-019
		V006	CDV-SMA-2	16-021(c)
		V007	CDV-SMA-2.3	13-001
				13-002
				16-003(n)
				16-003(o)
				16-029(h)
				16-031(h)
		V008	CDV-SMA-2.41	16-018
		V008A	CDV-SMA-2.42	16-010(b)
		V009	CDV-SMA-2.5	16-010(c)
				16-010(d)
				16-028(a)
		V009A	CDV-SMA-2.51	16-010(i)
		V010	CDV-SMA-3	14-009
		V011	CDV-SMA-4	14-010
		V012	CDV-SMA-6.01	14-001(g)
				14-006

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Water/Cañon de Valle	Cañon de Valle	V012A	CDV-SMA-6.02	14-002(d)
				14-002(e)
		V013	CDV-SMA-7	15-008(d)
		V014	CDV-SMA-8	15-011(c)
		V015	CDV-SMA-8.5	15-014(a)
		V016	CDV-SMA-9.05	15-007(b)
	Fence Canyon	F001	F-SMA-2	36-004(c)
	Potrillo Canyon	I001	PT-SMA-0.5	15-009(e)
				C-15-004
		I002	PT-SMA-1	15-004(f)
				15-008(a)
		I003	PT-SMA-1.7	15-006(a)
		I004	PT-SMA-2	15-008(f)
				36-003(b)
				36-004(e)
		I004A	PT-SMA-2.01	C-36-001
				C-36-006(e)
		I005	PT-SMA-3	36-004(a)
				36-006
		I007	PT-SMA-4.2	36-004(d)
	Water Canyon	W001	W-SMA-1	16-017(j)-99
				16-026(c2)
				16-026(v)
		W002	W-SMA-1.5	16-026(b2)
				16-028(d)
		W003	W-SMA-2.05	16-028(e)
		W004	W-SMA-3.5	16-026(y)
		W005	W-SMA-4.1	16-003(a)
		W006	W-SMA-5	16-001(e)
				16-003(f)
				16-026(b)
				16-026(c)
				16-026(d)
				16-026(e)
		W007	W-SMA-6	11-001(c)
		W008	W-SMA-7	16-026(h2)
		W009	W-SMA-7.8	16-031(a)
		W010	W-SMA-7.9	16-006(c)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Water/Cañon de Valle	Water Canyon	W011	W-SMA-8	16-016(g)
				16-028(b)
		W012	W-SMA-8.7	13-001
				13-002
				16-004(a)
				16-026(j2)
				16-029(h)
				16-035
		W012A	W-SMA-8.71	16-004(c)
		W013	W-SMA-9.05	16-030(g)
		W014	W-SMA-9.5	11-012(c)
		W015	W-SMA-9.7	11-011(a)
				11-011(b)
		W016	W-SMA-9.8	11-005(c)
		W017	W-SMA-9.9	11-006(b)
		W018	W-SMA-10	11-002
				11-003(b)
				11-005(a)
				11-005(b)
				11-006(c)
				11-006(d)
				11-011(d)
		W019	W-SMA-11.7	49-008(c)
		W020	W-SMA-12.05	49-001(g)
		W021	W-SMA-14.1	15-004(h)
				15-014(l)
		W022	W-SMA-15.1	49-005(a)
Ancho	Ancho Canyon	A001	A-SMA-1.1	39-004(a)
				39-004(d)
		A002	A-SMA-2	39-004(b)
				39-004(e)
		A003	A-SMA-2.5	39-010
		A004	A-SMA-2.7	39-002(c)
				39-008
		A005	A-SMA-2.8	39-001(b)
		A006	A-SMA-3	39-002(b)
				39-004(c)
		A007	A-SMA-3.5	39-006(a)
		A008	A-SMA-4	33-010(d)

Table 1-2 (continued)

Watershed	Canyon	Permitted Feature	SMA	Site Number
Ancho	Ancho Canyon	A009	A-SMA-6	33-004(k)
				33-007(a)
				33-010(a)
Chaquehui	Chaquehui Canyon	Q001	CHQ-SMA-0.5	33-004(g)
				33-007(c)
				33-009
		Q002	CHQ-SMA-1.01	33-002(d)
		Q002A	CHQ-SMA-1.02	33-004(h)
				33-008(c)
				33-011(d)
				33-015
		Q002B	CHQ-SMA-1.03	33-008(c)
				33-012(a)
				33-017
				C-33-001
				C-33-003
		Q003	CHQ-SMA-2	33-004(d)
				33-007(c)
				C-33-003
		Q004	CHQ-SMA-3.05	33-010(f)
		Q005	CHQ-SMA-4	33-011(e)
		Q006	CHQ-SMA-4.1	33-016
		Q007	CHQ-SMA-4.5	33-011(b)
		Q008	CHQ-SMA-5.05	33-007(b)
		Q009	CHQ-SMA-6	33-004(j)
				33-006(a)
				33-007(b)
				33-010(c)
				33-010(g)
				33-010(h)
				33-014
		Q010	CHQ-SMA-7.1	33-010(g)

Table 1-3
Permitted Features, SMAs,
and Sites Summarized by Watershed

Watershed	Number of Permitted Features/SMAs	Number of Sites
Los Alamos/Pueblo	64	102
Sandia	19	23
Mortandad	45	96
Pajarito	51	60
Water/Cañon de Valle	50	89
Ancho	9	15
Chaquehui	12	24
Total	**250**	**409**

Notes: Current as of December 31, 2012. A total of 406 unique Sites exist. A total of 405 Sites are permitted. Permitted site 32-002(b) is retired and has been replaced by 32-002(b1) and 32-002(b2). Three Sites (54-017, 54-018, and 54-020) drain to both Pajarito and Mortandad watersheds and thus are counted twice, increasing the total to 409.

Table 2-1
Additional Control Measures Installed during 2012

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
2M-SMA-1.5	E00603060004	Berm	Straw Wattles	—*	—	X	X	10/11/2012	Additional control
2M-SMA-2	E01203060011	Berm	Straw Wattles	—	X	—	X	6/12/2012	Replaced baseline control
2M-SMA-2	E01203060012	Berm	Straw Wattles	—	X	—	X	6/12/2012	Replaced baseline control
2M-SMA-2	E01203060013	Berm	Straw Wattles	—	X	—	X	6/12/2012	Replaced baseline control
2M-SMA-3	E01403060012	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced baseline control
ACID-SMA-2	P00203060015	Berm	Straw Wattles	—	—	X	X	10/11/2012	Replaced baseline control
ACID-SMA-2	P00203060016	Berm	Straw Wattles	—	—	X	X	10/11/2012	Replaced baseline control
ACID-SMA-2	P00203060017	Berm	Straw Wattles	—	—	X	X	10/11/2012	Replaced baseline control
ACID-SMA-2.01	P002A03060006	Berm	Straw Wattles	—	X	—	X	11/1/2012	Replaced baseline control
ACID-SMA-2.1	P00303060016	Berm	Straw Wattles	—	—	X	X	10/11/2012	Replaced baseline control
ACID-SMA-2.1	P00303060017	Berm	Straw Wattles	—	—	X	X	10/11/2012	Replaced baseline control
ACID-SMA-2.1	P00303060018	Berm	Straw Wattles	—	—	X	X	10/11/2012	Replaced baseline control
A-SMA-2.8	A00501010004	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	5/22/2012	Replaced baseline control
A-SMA-3	A00603120017	Berm	Rock Berm	—	—	X	X	5/23/2012	Replaced baseline control
B-SMA-0.5	B00103060010	Berm	Straw Wattles	—	—	X	X	11/8/2012	Additional control
B-SMA-0.5	B00104060009	Channel/Swale	Rip Rap	X	—	X	—	8/27/2012	Additional control
B-SMA-0.5	B00101010011	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	11/8/2012	Additional control
CDV-SMA-1.2	V00103060010	Berm	Straw Wattles	—	—	X	X	8/2/2012	Replaced baseline control
CDV-SMA-1.2	V00103060011	Berm	Straw Wattles	—	—	X	X	8/2/2012	Replaced baseline control
CDV-SMA-1.4	V00303010066	Berm	Earthen Berm	—	—	X	X	9/6/2012	Additional control
CDV-SMA-1.4	V00303010067	Berm	Earthen Berm	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00306010065	Check Dam	Rock Check Dam	—	—	X	X	9/6/2012	Additional control
CDV-SMA-1.4	V00306010058	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00306010059	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00306010060	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00306010061	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control

Table 2-1 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
CDV-SMA-1.4	V00306010062	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00306010063	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00306010064	Check Dam	Rock Check Dam	—	X	—	X	9/6/2012	Replaced additional control
CDV-SMA-1.4	V00305020068	Sediment Traps and Basins	Sediment Basin	—	—	X	X	9/6/2012	Additional control
CDV-SMA-4	V01101010005	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	7/25/2012	Replaced baseline control
CDV-SMA-6.01	V01203060011	Berm	Straw Wattles	—	—	X	X	7/25/2012	Replaced baseline control
CDV-SMA-6.01	V01203060012	Berm	Straw Wattles	—	—	X	X	7/25/2012	Replaced baseline control
CHQ-SMA-6	Q00903060033	Berm	Straw Wattles	—	X	—	X	10/1/2012	Replaced baseline control
CHQ-SMA-6	Q00903060034	Berm	Straw Wattles	—	X	—	X	10/1/2012	Replaced baseline control
CHQ-SMA-6	Q00903060035	Berm	Straw Wattles	—	X	—	X	10/1/2012	Replaced baseline control
DP-SMA-0.3	D00102010015	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—	3/23/2012	Replaced baseline control
DP-SMA-0.4	D00203060008	Berm	Straw Wattles	—	X	—	X	10/24/2012	Replaced baseline control
DP-SMA-2.35	D00603060006	Berm	Straw Wattles	—	—	X	X	7/25/2012	Replaced additional control
F-SMA-2	F00103010017	Berm	Earthen Berm	—	X	—	X	9/18/2012	Additional control
LA-SMA-1	L00303100015	Berm	Gravel Bags	—	—	X	X	5/15/2012	Additional control
LA-SMA-1	L00303120018	Berm	Rock Berm	—	X	—	X	8/2/2012	Replaced baseline control
LA-SMA-1	L00303060016	Berm	Straw Wattles	—	—	X	X	7/26/2012	Replaced baseline control
LA-SMA-1	L00303060017	Berm	Straw Wattles	—	—	X	X	7/26/2012	Replaced baseline control
LA-SMA-1	L00304060023	Channel/Swale	Rip Rap	X	—	X	—	10/31/2012	Additional control
LA-SMA-1	L00304060024	Channel/Swale	Rip Rap	X	—	X	—	10/31/2012	Additional control
LA-SMA-2.1	L00601060009	Seed and Mulch	Erosion Control Blanket	X	—	—	—	6/5/2012	Replaced baseline control
LA-SMA-2.3	L00703060005	Berm	Straw Wattles	—	—	X	X	10/24/2012	Replaced baseline control
LA-SMA-3.9	L00903060004	Berm	Straw Wattles	—	X	—	X	6/4/2012	Replaced baseline control
LA-SMA-5.01	L01203060011	Berm	Straw Wattles	—	—	X	X	10/24/2012	Replaced baseline control
LA-SMA-5.02	L012A03060010	Berm	Straw Wattles	—	X	—	X	4/20/2012	Replaced additional control

Table 2-1 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
LA-SMA-5.02	L012A03060011	Berm	Straw Wattles	—	X	—	X	4/20/2012	Replaced additional control
LA-SMA-6.27	L02103060010	Berm	Straw Wattles	—	X	—	X	7/23/2012	Replaced baseline control
LA-SMA-6.31	L022A03060007	Berm	Straw Wattles	—	X	—	X	7/23/2012	Replaced additional control
LA-SMA-6.32	L02303060005	Berm	Straw Wattles	—	X	—	X	6/4/2012	Replaced baseline control
LA-SMA-6.38	L02603060009	Berm	Straw Wattles	—	—	X	X	6/4/2012	Replaced additional control
LA-SMA-6.38	L02603060010	Berm	Straw Wattles	—	—	X	X	6/4/2012	Replaced baseline control
LA-SMA-6.5	L02801010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	6/4/2012	Replaced baseline control
M-SMA-11.1	M01403100007	Berm	Gravel Bags	—	—	X	X	6/12/2012	Additional control
M-SMA-12.6	M01703060012	Berm	Straw Wattles	—	X	—	X	7/26/2012	Replaced baseline control
M-SMA-12.6	M01701010013	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	8/15/2012	Replaced additional control
M-SMA-12.7	M01803060011	Berm	Straw Wattles	—	—	X	X	8/13/2012	Replaced baseline control
M-SMA-12.8	M01903060009	Berm	Straw Wattles	—	X	—	X	8/13/2012	Replaced baseline control
M-SMA-12.9	M02003060010	Berm	Straw Wattles	—	X	—	X	7/24/2012	Replaced baseline control
M-SMA-12.9	M02003060011	Berm	Straw Wattles	—	X	—	X	8/13/2012	Replaced baseline control
M-SMA-6	M00806010021	Check Dam	Rock Check Dam	—	X	—	X	6/6/2012	Replaced baseline control
M-SMA-6	M00806010022	Check Dam	Rock Check Dam	—	X	—	X	6/6/2012	Replaced baseline control
M-SMA-6	M00806010023	Check Dam	Rock Check Dam	—	X	—	X	6/6/2012	Replaced baseline control
M-SMA-7	M00903060007	Berm	Straw Wattles	—	—	X	X	10/24/2012	Replaced additional control
M-SMA-7	M00903060008	Berm	Straw Wattles	—	—	X	X	10/24/2012	Replaced baseline control
M-SMA-7	M00903060006	Berm	Straw Wattles	—	—	X	X	6/13/2012	Replaced baseline control
PJ-SMA-1.05	J00103010017	Berm	Earthen Berm	—	X	—	X	5/9/2012	Additional control
PJ-SMA-1.05	J00103010018	Berm	Earthen Berm	—	X	—	X	8/27/2012	Replaced baseline control
PJ-SMA-11	J01303060017	Berm	Straw Wattles	—	X	—	X	10/3/2012	Replaced baseline control
PJ-SMA-14.6	J02104060007	Channel/Swale	Rip Rap	X	—	X	—	9/11/2012	Additional control
PJ-SMA-16	J02303060003	Berm	Straw Wattles	—	X	—	X	10/3/2012	Replaced baseline control
PJ-SMA-2	J00203010015	Berm	Earthen Berm	—	—	X	X	8/1/2012	Additional control

Table 2-1 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
PJ-SMA-2	J00203060016	Berm	Straw Wattles	—	—	X	X	10/10/2012	Additional control
PJ-SMA-2	J00203060017	Berm	Straw Wattles	—	—	X	X	10/10/2012	Additional control
PJ-SMA-2	J00206010018	Check Dam	Rock Check Dam	—	—	X	X	10/10/2012	Additional control
PJ-SMA-2	J00206010019	Check Dam	Rock Check Dam	—	—	X	X	10/10/2012	Additional control
PJ-SMA-2	J00206010020	Check Dam	Rock Check Dam	—	—	X	X	10/10/2012	Additional control
PJ-SMA-2	J00206010021	Check Dam	Rock Check Dam	—	—	X	X	10/10/2012	Additional control
PJ-SMA-6	J00703060013	Berm	Straw Wattles	—	—	X	X	11/7/2012	Additional control
PJ-SMA-6	J00703060014	Berm	Straw Wattles	—	—	X	X	11/7/2012	Additional control
PJ-SMA-6	J00703060015	Berm	Straw Wattles	—	—	X	X	11/7/2012	Additional control
PJ-SMA-6	J00703060016	Berm	Straw Wattles	—	—	X	X	11/7/2012	Additional control
PJ-SMA-6	J00701010017	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	11/7/2012	Additional control
P-SMA-1	P00503060033	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-1	P00503060034	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-1	P00503060035	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-1	P00503060036	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-1	P00503060037	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-1	P00503060038	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-1	P00503060039	Berm	Straw Wattles	—	X	—	X	11/6/2012	Replaced additional control
P-SMA-3.05	P00901010011	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	5/23/2012	Additional control
PT-SMA-1.7	I00303060016	Berm	Straw Wattles	—	X	—	X	6/6/2012	Replaced baseline control
PT-SMA-3	I00503020008	Berm	Base Course Berm	—	—	X	X	9/19/2012	Additional control
PT-SMA-3	I00504060007	Channel/Swale	Rip Rap	X	—	X	—	9/18/2012	Additional control
PT-SMA-4.2	I00703120007	Berm	Rock Berm	—	X	—	X	8/9/2012	Additional control
R-SMA-0.5	R00103060022	Berm	Straw Wattles	—	—	X	X	8/23/2012	Replaced baseline control
R-SMA-0.5	R00103060023	Berm	Straw Wattles	—	—	X	X	8/23/2012	Replaced baseline control
R-SMA-0.5	R00103060024	Berm	Straw Wattles	—	X	—	X	8/23/2012	Replaced additional control

Table 2-1 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
R-SMA-0.5	R00103060020	Berm	Straw Wattles	—	X	—	X	8/23/2012	Additional control
R-SMA-0.5	R00103060021	Berm	Straw Wattles	—	—	X	X	8/23/2012	Additional control
R-SMA-0.5	R00103060017	Berm	Straw Wattles	—	—	X	X	8/23/2012	Additional control
R-SMA-0.5	R00103060018	Berm	Straw Wattles	—	X	—	X	8/23/2012	Additional control
R-SMA-0.5	R00103060019	Berm	Straw Wattles	—	X	—	X	8/23/2012	Additional control
R-SMA-0.5	R00101010016	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	8/23/2012	Additional control
R-SMA-0.5	R00101010015	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	8/23/2012	Additional control
R-SMA-1.95	R00303060007	Berm	Straw Wattles	—	X	—	X	11/5/2012	Replaced baseline control
S-SMA-0.25	S00104060010	Channel/Swale	Rip Rap	X	X	—	—	8/1/2012	Additional control
S-SMA-2	S00304060011	Channel/Swale	Rip Rap	X	—	X	—	5/29/2012	Additional control
S-SMA-2.8	S00403060006	Berm	Straw Wattles	—	X	—	X	5/23/2012	Replaced baseline control
S-SMA-3.95	S01003060005	Berm	Straw Wattles	—	—	X	X	10/24/2012	Replaced baseline control
S-SMA-3.95	S01003060006	Berm	Straw Wattles	—	X	—	X	10/24/2012	Replaced baseline control
S-SMA-4.1	S01103060010	Berm	Straw Wattles	—	X	—	X	10/11/2012	Additional control
S-SMA-4.1	S01103060011	Berm	Straw Wattles	—	X	—	X	10/11/2012	Additional control
S-SMA-4.5	S01203060006	Berm	Straw Wattles	—	—	X	X	6/12/2012	Replaced baseline control
S-SMA-5.2	S01403060014	Berm	Straw Wattles	—	X	—	X	8/16/2012	Replaced baseline control
S-SMA-5.2	S01403060015	Berm	Straw Wattles	—	X	—	X	8/16/2012	Replaced baseline control
STRM-SMA-1.05	J02806010007	Check Dam	Rock Check Dam	—	—	X	X	7/25/2012	Replaced baseline control
STRM-SMA-5.05	J03103010012	Berm	Earthen Berm	—	—	X	X	7/27/2012	Additional control
T-SMA-1	T00203060007	Berm	Straw Wattles	—	X	—	X	11/1/2012	Replaced baseline control
T-SMA-1	T00203060008	Berm	Straw Wattles	—	X	—	X	11/1/2012	Replaced baseline control
T-SMA-1	T00203060009	Berm	Straw Wattles	—	X	—	X	11/1/2012	Replaced baseline control
T-SMA-1	T00203060010	Berm	Straw Wattles	—	X	—	X	11/1/2012	Replaced baseline control
T-SMA-1	T00203060011	Berm	Straw Wattles	—	X	—	X	11/1/2012	Replaced baseline control
T-SMA-1	T00203060012	Berm	Straw Wattles	—	X	—	X	11/1/2012	Additional control

Table 2-1 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
T-SMA-3	T00506020009	Check Dam	Log Check Dam	—	X	—	X	5/23/2012	Replaced baseline control
T-SMA-3	T00506020010	Check Dam	Log Check Dam	—	X	—	X	5/23/2012	Replaced baseline control
T-SMA-3	T00506020011	Check Dam	Log Check Dam	—	X	—	X	8/30/2012	Additional control
W-SMA-5	W00606010022	Check Dam	Rock Check Dam	—	X	—	X	6/6/2012	Additional control
W-SMA-5	W00606010023	Check Dam	Rock Check Dam	—	X	—	X	6/6/2012	Additional control
W-SMA-5	W00606010024	Check Dam	Rock Check Dam	—	X	—	X	6/6/2012	Additional control
W-SMA-5	W00606010025	Check Dam	Rock Check Dam	—	—	X	X	6/6/2012	Additional control
W-SMA-5	W00606010026	Check Dam	Rock Check Dam	—	—	X	X	6/6/2012	Additional control
W-SMA-5	W00606010027	Check Dam	Rock Check Dam	—	—	X	X	6/6/2012	Additional control
W-SMA-5	W00606010028	Check Dam	Rock Check Dam	—	X	—	X	8/1/2012	Replaced additional control

*— = Not applicable.

Table 3-1
Measurable Storm Event Minimum and Suggested Sample Volumes

Analysis Type	Minimum Volume (L)	Suggested Volume (L)	Bottle Type	Preservation	Maximum Holding*
Radioactivities – Ra-226 and Ra-228	2	2	Polyethylene or Glass	HNO_3 to pH<2	6 mo
Radioactivities – Adjusted Gross Alpha	1	2	Polyethylene or Glass	HNO_3 to pH<2	6 mo
Metals – Dissolved	0.25	0.5	Polyethylene (with Boron)/ Glass (without Boron)	HNO_3 to pH<2	6 mo
Metals – Total	0.25	0.5	Polyethylene or Glass	HNO_3 to pH<2	Mercury – 28 d Selenium – 6 mo
Cyanide, weak acid dissociable	0.5	1	Polyethylene or Glass	Cool, ≤6°C, NaOH to pH >12	14 d
Dioxin	1	3	Glass	Cool, ≤6°C	1 yr
Semivolatile compounds	1	3	Amber Glass	Cool, ≤6°C, store in dark	7 d until extraction, 40 d after extraction
Pesticides	1	3	Glass	Cool, ≤6°C	7 d until extraction, 40 d after extraction
PCBs	1	3	Glass	Cool, ≤6°C	1 yr until extraction, 1 yr after extraction
High Explosives	0.75	2.5	Amber Glass	Cool, ≤6°C, store in dark	7 d until extraction, 40 d after extraction

*Holding time is from sample collection until laboratory analysis, unless otherwise noted.

Table 3-2
Baseline Confirmation Monitoring

Permitted Feature	SMA	Station Number	Stage Number	Sample	Sample Date	Associated Rain Gauge	Storm Date	24-h Total (in.)	Duration (h)	Field Prep	Radioactivities		Metals		Cyanide	PCBs	High Explosives	Semivolatile Compounds
											Gross Alpha	Radium-226/228	Selenium and Mercury	Dissolved Metals	Cyanide (wad)	Total PCBs	Hexp	SVOAs
E011	2M-SMA-1.9	SS103218	MEx[a]	WT_IPPAJ-12-12739	7/11/12	RG121.9	7/11/12	0.44	0.75	UF[b]	1	1	1	—[c]	1	—	—	—
E011	2M-SMA-1.9	SS103218	MEx	WT_IPPAJ-12-12741	7/11/12	RG121.9	7/11/12	0.44	0.75	F[d]	—	—	—	1	—	—	—	—
E015	2M-SMA-2.5	SS093210	MEx	WT_IPPAJ-12-12733	9/10/12	RG-TA-06	9/8/12	0.03	0.25	UF	1	1	1	—	1	—	—	—
E015	2M-SMA-2.5	SS093210	MEx	WT_IPPAJ-12-12737	9/10/12	RG-TA-06	9/8/12	0.03	0.25	F	—	—	—	1	—	—	—	—
I003	PT-SMA-1.7	SS094813	MEx	WT_IPWAT-12-12876	9/10/12	RG262.4	9/10/12	0.54	2.41	UF	1	1	1	—	1	—	1	—
I003	PT-SMA-1.7	SS094813	MEx	WT_IPWAT-12-12883	9/10/12	RG262.4	9/10/12	0.54	2.41	F	—	—	—	1	—	—	—	—
J005	PJ-SMA-5	SS24254	MEx	WT_IPPAJ-12-12768	10/12/12	RG-TA-06	10/12/12	1.02	3.25	UF	1	1	1	—	1	—	—	1
J005	PJ-SMA-5	SS24254	MEx	WT_IPPAJ-12-12769	10/12/12	RG-TA-06	10/12/12	1.02	3.25	F	—	—	—	1	—	—	—	—
J029	STRM-SMA-1.5	SS2411	MEx	WT_IPPAJ-12-12770	7/11/12	RG240	7/11/12	1.04	1	UF	1	1	1	—	1	—	—	1
J029	STRM-SMA-1.5	SS2411	MEx	WT_IPPAJ-12-12771	7/11/12	RG240	7/11/12	1.04	1	F	—	—	—	1	—	—	—	—
M008	M-SMA-6	SS111234	MEx	WT_IPMOR-12-13174	10/12/12	RG200.5	10/12/12	0.74	2	F	—	—	—	1	—	—	—	—
M008	M-SMA-6	SS111234	MEx	WT_IPMOR-12-13210	10/12/12	RG200.5	10/12/12	0.74	2	UF	1	1	1	—	1	1	—	—
M009	M-SMA-7	SS1992	MEx	WT_IPMOR-12-13156	7/7/12	RG200.5	7/7/12	0.26	0.66	UF	1	1	1	—	1	—	—	—
M009	M-SMA-7	SS1992	MEx	WT_IPMOR-12-13158	7/7/12	RG200.5	7/7/12	0.26	0.66	F	—	—	—	1	—	—	—	—
P003	ACID-SMA-2.1	SS100104	MEx	WT_IPLAP-12-13100	8/3/12	RG055.5	8/3/12	0.16	0.66	UF	1	1	1	—	1	1	—	—
P003	ACID-SMA-2.1	SS100104	MEx	WT_IPLAP-12-13114	8/3/12	RG055.5	8/3/12	0.16	0.66	F	—	—	—	1	—	—	—	—
Q002B	CHQ-SMA-1.03	SS090614	MEx	WT_IPCHA-12-13027	7/4/12	RG-340	7/4/12	0.96	0.91	UF	1	1	1	—	1	1	—	—
Q002B	CHQ-SMA-1.03	SS090614	MEx	WT_IPCHA-12-13030	7/4/12	RG-340	7/4/12	0.96	0.91	F	—	—	—	1	—	—	—	—
Q003	CHQ-SMA-2	SS3374	MEx	WT_IPCHA-12-13031	7/4/12	RG340	7/4/12	0.96	0.91	UF	1	1	1	—	1	—	—	—
Q003	CHQ-SMA-2	SS3374	MEx	WT_IPCHA-12-13032	7/4/12	RG340	7/4/12	0.96	0.91	F	—	—	—	1	—	—	—	—
R001	R-SMA-0.5	SS082701	MEx	WT_IPLAP-12-13120	8/3/12	RG-NCOM	8/3/12	1.02	2	UF	1	1	1	—	1	—	1	—
R001	R-SMA-0.5	SS082701	MEx	WT_IPLAP-12-13126	8/3/12	RG-NCOM	8/3/12	1.02	2	F	—	—	—	1	—	—	—	—
T005	T-SMA-3	SS20134	MEx	WT_IPMOR-12-13159	9/10/12	RG200.5	9/10/12	0.19	0.1	UF	1	1	1	—	1	—	—	—
T005	T-SMA-3	SS20134	MEx	WT_IPMOR-12-13163	9/10/12	RG200.5	9/10/12	0.19	0.1	F	—	—	—	1	—	—	—	—
V003	CDV-SMA-1.4	SS2542	MEx	WT_IPWAT-12-12808	9/10/12	RG253	9/10/12	0.59	1.66	UF	1	1	1	—	—	—	—	—
V003	CDV-SMA-1.4	SS2542	MEx	WT_IPWAT-12-12810	9/10/12	RG253	9/10/12	0.59	1.66	F	—	—	—	1	—	—	—	—
V009	CDV-SMA-2.5	SS090420	MEx	WT_IPW-13-24314	10/12/12	RG253	10/12/12	1.01	3.66	UF	1	1	1	—	1	—	1	1
V009	CDV-SMA-2.5	SS090420	MEx	WT_IPW-13-24316	10/12/12	RG253	10/12/12	1.01	3.66	F	—	—	—	1	—	—	—	—
W006	W-SMA-5	SS2528	MEx	WT_IPWAT-12-12846	7/3/12	RG257	7/3/12	0.11	0.58	UF	1	1	1	—	1	—	—	1
W006	W-SMA-5	SS2528	MEx	WT_IPWAT-12-12848	7/3/12	RG257	7/3/12	0.11	0.58	F	—	—	—	1	—	—	—	—

[a] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.
[b] UF = Unfiltered.
[c] Not applicable.
[d] F = Filtered.

Table 3-3
Summary of Confirmation Monitoring Activities during 2012

Confirmation Monitoring Phase	No Samples	One Sample	Two Samples	Total
Baseline Monitoring Extended	165	15	0	180
Enhanced Control Monitoring	37	3	2	42
Monitoring Not Required	28	0	0	28
Total	**230**	**18**	**2**	**250**

Table 3-4
Non-Confirmation Monitoring

Permitted Feature	SMA	Station Number	Sample Date	Sample	Field Prep	Sample Type	Explanation
L015	LA-SMA-5.31	SS081012	10/12/12	WT_IPLAP-12-21992	UF[a]	Investigation	The sample collected was not representative of discharge from the Site(s). There was no exposure of the SWMU to storm water. Storm water collected flowed out of the main channel on the hillside above the Site and flowed past the Site to the sampler.
				WT_IPLAP-12-21996	F[b]		
J018	PJ-SMA-14.2	SS092320	07/11/12	WT_IPPAJ-12-12746	UF	Investigation	The sample collected was not representative of discharge from the Site(s). There was no exposure of the SWMU to storm water. Storm water collected was not from precipitation at the SMAs but instead was from flood waters passing through the Pajarito Canyon channel.
				WT_IPPAJ-12-12750	F		
J019	PJ-SMA-14.3	SS092321	07/11/12	WT_IPPAJ-12-12747	UF	Investigation	
				WT_IPPAJ-12-12751	F		

[a] UF = Unfiltered.
[b] F = Filtered.

Table 3-5
Enhanced Control Confirmation Monitoring

												Radioactivities		Metals				
Permitted Feature	SMA	Station Number	Stage Number	Sample	Sample Date	Rain Gauge	Storm Date	24-h Total (in.)	Duration (h)	Interval Between Samples (d)	Field Prep	Radium-226/228	Gross Alpha	Dissolved Copper and Zinc	Cyanide (wad)	Dissolved Aluminum	Total Selenium and Mercury	Dissolved Metals
E001	2M-SMA-1	SS2432	CAM5[a]	WT_IPPAJ-12-22080	7/25/12	RG121.9	7/25/12	0.06	0.25	n/a[b]	F[c]	—[d]	—	—	—	1	—	—
E001	2M-SMA-1	SS2432	CAM5	WT_IPPAJ-12-22081	9/12/12	RG121.9	9/12/12	0.66	5	47	F	—	—	—	—	1	—	—
L001	LA-SMA-0.85	SS121043	CAM5	WT_IPL-13-24803	11/9/12	RG121.9	11/9/12	0.13	0.91	n/a	UF[e]	1	1	—	1	—	1	—
L001	LA-SMA-0.85	SS121043	CAM5	WT_IPL-13-24804	11/9/12	RG121.9	11/9/12	0.13	0.91	n/a	F	—	—	—	—	—	—	1
L004	LA-SMA-1.1	SS081004	CAM5	WT_IPLAP-12-21984	9/28/12	RG121.9	9/28/12	0.22	0.75	n/a	UF	—	1	—	—	—	—	—
L004	LA-SMA-1.1	SS081004	CAM5	WT_IPLAP-12-21986	9/28/12	RG121.9	9/28/12	0.22	0.75	n/a	F	—	—	1	—	—	—	—
L005	LA-SMA-1.25	SS091011	CAM5	WT_IPLAP-12-22012	9/10/12	RG121.9	9/10/12	0.27	0.75	n/a	F	—	—	1	—	—	—	—
L005	LA-SMA-1.25	SS091011	CAM5	WT_IPLAP-12-22013	10/12/12	RG121.9	10/12/12	1.07	3.58	32	F	—	—	1	—	—	—	—
M012A	M-SMA-10.01	SS121235	CAM5	WT_IPMOR-12-23510	10/12/12	RG200.5	10/12/12	0.74	2	n/a	UF	1	1	—	1	—	1	—
M012A	M-SMA-10.01	SS121235	CAM5	WT_IPMOR-12-23512	10/12/12	RG200.5	10/12/12	0.74	2	n/a	F	—	—	—	—	—	—	1

[a] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of effective date of the Permit.
[b] n/a = Not applicable.
[c] F = Filtered.
[d] Not applicable.
[e] UF = Unfiltered.

Table 3-6
Summary of Confirmation Monitoring TAL Exceedances

SMA	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	% of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	% MTAL Exceedances	Concentration Range	Result/MTAL Ratio Range
2M-SMA-1	CAM5[a]	Aluminum	µg/L	2	2	100%	n/a[b]	n/a	n/a	750	1	50%	222 to 1430	1.9
2M-SMA-1.9	MEx[c]	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	24.9	5.8
2M-SMA-1.9	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	314	7.5
ACID-SMA-2.1	MEx	Gross alpha	pCi/L	1	1	100%	15	24.8	1.65	n/a	n/a	n/a	24.8	n/a
ACID-SMA-2.1	MEx	Total PCB	µg/L	1	1	100%	0.00064	0.0249	38.9	n/a	n/a	n/a	0.0249	n/a
CDV-SMA-1.4	MEx	Silver	µg/L	1	1	100%	n/a	n/a	n/a	0.5	1	100%	7.86	15.7
CHQ-SMA-1.03	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	14.4	3.3
CHQ-SMA-1.03	MEx	Gross alpha	pCi/L	1	1	100%	15	63.5	4.23	n/a	n/a	n/a	63.5	n/a
CHQ-SMA-1.03	MEx	Total PCB	µg/L	1	1	100%	0.00064	0.0155	24.2	n/a	n/a	n/a	0.0155	n/a
CHQ-SMA-2	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	1	100%	967	1.3
CHQ-SMA-2	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	6.75	1.6
CHQ-SMA-2	MEx	Gross alpha	pCi/L	1	1	100%	15	91.1	6.07	n/a	n/a	n/a	91.1	n/a
LA-SMA-0.85	CAM5	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	26.4	6.1
LA-SMA-0.85	CAM5	Gross alpha	pCi/L	1	1	100%	15	22.9	1.53	n/a	n/a	n/a	22.9	n/a
LA-SMA-0.85	CAM5	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	56.1	1.3
LA-SMA-1.1	CAM5	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	17.7	4.1
LA-SMA-1.1	CAM5	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	131	3.1
LA-SMA-1.25	CAM5	Copper	µg/L	2	2	100%	n/a	n/a	n/a	4.3	2	100%	7.31 to 25	1.7 and 5.8
LA-SMA-1.25	CAM5	Zinc	µg/L	2	2	100%	n/a	n/a	n/a	42	2	100%	53.2 to 111	1.3 and 2.6
M-SMA-10.01	CAM5	Gross alpha	pCi/L	1	1	100%	15	19.6	1.31	n/a	n/a	n/a	19.6	n/a
M-SMA-6	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	13	3.0
M-SMA-6	MEx	Gross alpha	pCi/L	1	1	100%	15	168	11.2	n/a	n/a	n/a	168	n/a
M-SMA-6	MEx	Total PCB	µg/L	1	1	100%	0.00064	0.0349	54.5	n/a	n/a	n/a	0.0349	n/a
M-SMA-7	MEx	Gross alpha	pCi/L	1	1	100%	15	46.3	3.09	n/a	n/a	n/a	46.3	n/a
M-SMA-7	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	60.6	1.4
PJ-SMA-5	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	75.5	17.6
PT-SMA-1.7	MEx	Gross alpha	pCi/L	1	1	100%	15	92.6	6.17	n/a	n/a	n/a	92.6	n/a
R-SMA-0.5	MEx	Gross alpha	pCi/L	1	1	100%	15	36.5	2.43	n/a	n/a	n/a	36.5	n/a
STRM-SMA-1.5	MEx	Cadmium	µg/L	1	1	100%	n/a	n/a	n/a	1	1	100%	1.26	1.3
STRM-SMA-1.5	MEx	Cyanide, weak acid dissociable	mg/L	1	1	100%	0.01	0.0276	2.76	0.022	1	100%	0.0276	1.3
STRM-SMA-1.5	MEx	Gross alpha	pCi/L	1	1	100%	15	1270	84.7	n/a	n/a	n/a	1270	n/a
STRM-SMA-1.5	MEx	Mercury	µg/L	1	1	100%	0.77	1.17	1.52	1.4	0	0%	1.17	n/a
STRM-SMA-1.5	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	38.5	1.28	n/a	n/a	n/a	38.5	n/a
STRM-SMA-1.5	MEx	Silver	µg/L	1	1	100%	n/a	n/a	n/a	0.5	1	100%	0.589	1.2
T-SMA-3	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	13.4	3.1
T-SMA-3	MEx	Gross alpha	pCi/L	1	1	100%	15	34.4	2.29	n/a	n/a	n/a	34.4	n/a
W-SMA-5	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	6.28	1.5

[a] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of effective date of the Permit.
[b] n/a = Not applicable.
[c] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.

Table 4-1
SMAs Associated with
High Priority Sites without a Baseline Monitoring
Confirmation Sample Collected by September 30, 2012

Permit Feature	SMA Number	Site Number
P005	P-SMA-1	73-001(a)
P005	P-SMA-1	73-004(d)
P008	P-SMA-2.2	00-019
P009	P-SMA-3.05	00-018(a)
L006	LA-SMA-2.1	01-001(f)
L008	LA-SMA-3.1	01-001(e)
L008	LA-SMA-3.1	01-003(a)
L012	LA-SMA-5.01	01-001(d)
L012	LA-SMA-5.01	01-006(h)
L018	LA-SMA-5.51	02-003(a)
L018	LA-SMA-5.51	02-003(e)
L018	LA-SMA-5.51	02-004(a)
L018	LA-SMA-5.51	02-005
L018	LA-SMA-5.51	02-006(b)
L018	LA-SMA-5.51	02-006(c)
L018	LA-SMA-5.51	02-006(d)
L018	LA-SMA-5.51	02-006(e)
L018	LA-SMA-5.51	02-008(a)
L018	LA-SMA-5.51	02-009(b)
L018	LA-SMA-5.51	02-011(a)
L018	LA-SMA-5.51	02-011(b)
L018	LA-SMA-5.51	02-011(c)
L018	LA-SMA-5.51	02-011(d)
L018A	LA-SMA-5.52	02-003(b)
L018A	LA-SMA-5.52	02-007
L018A	LA-SMA-5.52	02-008(c)
L018B	LA-SMA-5.53	02-009(a)
L018C	LA-SMA-5.54	02-009(c)
L028	LA-SMA-6.5	21-024(i)
S005	S-SMA-3.51	03-009(i)
S005A	S-SMA-3.52	03-021
S013	S-SMA-5	20-002(c)
C010	CDB-SMA-4	54-017
C010	CDB-SMA-4	54-018
C010	CDB-SMA-4	54-020
M005	M-SMA-3.5	48-003

Table 4-1 (continued)

Permit Feature	SMA Number	Site Number
M010	M-SMA-7.9	50-006(d)
T001	Pratt-SMA-1.05	35-003(h)
T001	Pratt-SMA-1.05	35-003(p)
T001	Pratt-SMA-1.05	35-003(r)
T001	Pratt-SMA-1.05	35-004(h)
T001	Pratt-SMA-1.05	35-009(d)
T001	Pratt-SMA-1.05	35-016(k)
T001	Pratt-SMA-1.05	35-016(l)
T001	Pratt-SMA-1.05	35-016(m)
J024	PJ-SMA-17	54-018
J026	PJ-SMA-18	54-017
J025	PJ-SMA-19	54-013(b)
J025	PJ-SMA-19	54-017
J025	PJ-SMA-19	54-020

Table 4-2
Permit Phase of SMAs Associated with High and Moderate Priority Sites

SMA Association	Baseline Monitoring Extended	Baseline Complete	Corrective Action in Process	Corrective Action Complete	Total
SMAs associated with HPS	21	0	10	2	33
SMAs associated with MPS	145	3	59	10	217
Total	**166**	**3**	**69**	**12**	**250**

Table 4-3
Enhanced Control Measures Installed during 2012

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
2M-SMA-1	E00103010014	Berm	Earthen Berm	—*	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00103110015	Berm	Eco-Block	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010016	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010017	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010018	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010019	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010020	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010021	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010022	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010023	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010024	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00106010025	Check Dam	Rock Check Dam	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1	E00105020013	Sediment Traps and Basins	Sediment Basin	—	—	X	X	6/19/2012	Enhanced control
2M-SMA-1.42	E00203010014	Berm	Earthen Berm	—	—	X	X	5/14/2012	Enhanced control
2M-SMA-1.44	E00401010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	5/14/2012	Enhanced control
2M-SMA-1.45	E00503010016	Berm	Earthen Berm	—	X	—	X	6/25/2012	Enhanced control
2M-SMA-1.45	E00503010017	Berm	Earthen Berm	—	X	—	X	6/25/2012	Enhanced control
2M-SMA-1.65	E00703010010	Berm	Earthen Berm	—	—	X	X	5/30/2012	Enhanced control
2M-SMA-1.65	E00706010006	Check Dam	Rock Check Dam	—	—	X	X	5/30/2012	Enhanced control
2M-SMA-1.65	E00706010007	Check Dam	Rock Check Dam	—	—	X	X	5/30/2012	Enhanced control
2M-SMA-1.65	E00706010008	Check Dam	Rock Check Dam	—	—	X	X	5/30/2012	Enhanced control
2M-SMA-1.65	E00706010009	Check Dam	Rock Check Dam	—	—	X	X	5/30/2012	Enhanced control
2M-SMA-1.7	E00903010008	Berm	Earthen Berm	—	—	X	X	7/9/2012	Enhanced control
2M-SMA-1.8	E01008030008	Cap	Concrete/Asphalt Cap	X	—	X	—	9/6/2012	Enhanced control
2M-SMA-1.8	E01008030009	Cap	Concrete/Asphalt Cap	X	—	X	—	9/6/2012	Enhanced control
2M-SMA-2	E01205020014	Sediment Traps and Basins	Sediment Basin	—	X	—	X	10/10/2012	Enhanced control

Table 4-3 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
2M-SMA-2.2	E01308030006	Cap	Concrete/Asphalt Cap	X	—	X	—	9/6/2012	Enhanced control
A-SMA-2.7	A00403010013	Berm	Earthen Berm	—	X	—	X	5/31/2012	Enhanced control
A-SMA-2.7	A00403010014	Berm	Earthen Berm	—	X	—	X	5/31/2012	Enhanced control
A-SMA-2.7	A00403010015	Berm	Earthen Berm	—	X	—	X	5/31/2012	Enhanced control
A-SMA-2.7	A00403010016	Berm	Earthen Berm	—	X	—	X	5/31/2012	Enhanced control
CDB-SMA-0.25	C00203010017	Berm	Earthen Berm	—	X	—	X	5/31/2012	Enhanced control
CDB-SMA-0.25	C00203010018	Berm	Earthen Berm	—	X	—	X	5/31/2012	Enhanced control
CDB-SMA-1	C00403010014	Berm	Earthen Berm	—	X	—	X	7/9/2012	Enhanced control
CDV-SMA-1.45	V00403010004	Berm	Earthen Berm	—	X	—	X	6/5/2012	Enhanced control
CDV-SMA-6.02	V012A03010006	Berm	Earthen Berm	—	X	—	X	5/15/2012	Enhanced control
CHQ-SMA-1.02	Q002A03010010	Berm	Earthen Berm	—	X	—	X	8/22/2012	Enhanced control
CHQ-SMA-1.02	Q002A03010011	Berm	Earthen Berm	—	X	—	X	8/22/2012	Enhanced control
CHQ-SMA-1.02	Q002A03010012	Berm	Earthen Berm	—	X	—	X	8/22/2012	Enhanced control
CHQ-SMA-1.02	Q002A03010013	Berm	Earthen Berm	—	—	X	X	8/22/2012	Enhanced control
DP-SMA-0.3	D00103010022	Berm	Earthen Berm	—	—	X	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00103010023	Berm	Earthen Berm	—	X	—	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00103120020	Berm	Rock Berm	—	X	—	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00103120021	Berm	Rock Berm	—	X	—	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00106010016	Check Dam	Rock Check Dam	—	—	X	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00106010017	Check Dam	Rock Check Dam	—	—	X	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00106010018	Check Dam	Rock Check Dam	—	X	—	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00106010019	Check Dam	Rock Check Dam	—	X	—	X	10/30/2012	Enhanced control
DP-SMA-0.3	D00106010024	Check Dam	Rock Check Dam	—	—	X	X	11/27/2012	Enhanced control
DP-SMA-3	D00703010016	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control
DP-SMA-3	D00703010017	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control
DP-SMA-3	D00703010018	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control

Table 4-3 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
DP-SMA-3	D00703010019	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control
DP-SMA-3	D00703010020	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control
DP-SMA-3	D00703010021	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control
DP-SMA-3	D00703010022	Berm	Earthen Berm	—	X	—	X	6/7/2012	Enhanced control
F-SMA-2	F00101040016	Seed and Mulch	Seeding	X	—	—	—	5/16/2012	Enhanced control
LA-SMA-0.85	L00103010008	Berm	Earthen Berm	—	X	—	X	9/27/2012	Enhanced control
LA-SMA-1	L00303010019	Berm	Earthen Berm	—	X	—	X	10/29/2012	Enhanced control
LA-SMA-1	L00304040021	Channel/Swale	Culvert	X	—	X	—	10/29/2012	Enhanced control
LA-SMA-1	L00304060022	Channel/Swale	Rip Rap	X	—	X	—	10/29/2012	Enhanced control
LA-SMA-1	L00304030020	Channel/Swale	Rock Channel/Swale	X	—	X	—	10/29/2012	Enhanced control
LA-SMA-1.25	L00503010007	Berm	Earthen Berm	—	X	—	X	7/11/2012	Enhanced control
LA-SMA-10.12	L030A03010026	Berm	Earthen Berm	—	—	X	X	11/19/2012	Enhanced control
LA-SMA-10.12	L030A03010027	Berm	Earthen Berm	—	X	—	X	11/19/2012	Enhanced control
LA-SMA-10.12	L030A03120030	Berm	Rock Berm	—	X	—	X	11/19/2012	Enhanced control
LA-SMA-10.12	L030A03060028	Berm	Straw Wattles	—	—	X	X	11/19/2012	Enhanced control
LA-SMA-10.12	L030A03060029	Berm	Straw Wattles	—	X	—	X	11/19/2012	Enhanced control
LA-SMA-10.12	L030A02010031	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—	11/19/2012	Enhanced control
LA-SMA-5.31	L01503120010	Berm	Rock Berm	—	—	X	X	7/12/2012	Enhanced control
LA-SMA-5.31	L01503120011	Berm	Rock Berm	—	X	—	X	7/12/2012	Enhanced control
LA-SMA-5.33	L01601040013	Seed and Mulch	Seeding	X	—	—	—	5/21/2012	Enhanced control
LA-SMA-5.35	L01408030010	Cap	Concrete/Asphalt Cap	X	—	X	—	8/21/2012	Enhanced control
LA-SMA-5.35	L01408030014	Cap	Concrete/Asphalt Cap	X	X	—	—	11/13/2012	Enhanced control
LA-SMA-5.35	L01408040011	Cap	Metal Cap	X	—	X	—	8/21/2012	Enhanced control
LA-SMA-5.35	L01408040012	Cap	Metal Cap	X	—	X	—	8/21/2012	Enhanced control
LA-SMA-5.35	L01408040013	Cap	Metal Cap	X	—	X	—	8/21/2012	Enhanced control
M-SMA-1	M00107010008	Gabions	Gabions	—	X	—	X	10/10/2012	Enhanced control

Table 4-3 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
M-SMA-10.01	M012A03010006	Berm	Earthen Berm	—	X	—	X	8/21/2012	Enhanced control
M-SMA-10.01	M012A03010007	Berm	Earthen Berm	—	X	—	X	8/21/2012	Enhanced control
PJ-SMA-3.05	J00303010010	Berm	Earthen Berm	—	—	X	X	6/11/2012	Enhanced control
PJ-SMA-3.05	J00303010011	Berm	Earthen Berm	—	X	—	X	6/11/2012	Enhanced control
PJ-SMA-5.1	J00603010009	Berm	Earthen Berm	—	X	—	X	6/25/2012	Enhanced control
PT-SMA-0.5	I00103010006	Berm	Earthen Berm	—	X	—	X	10/29/2012	Enhanced control
PT-SMA-0.5	I00103010007	Berm	Earthen Berm	—	X	—	X	10/29/2012	Enhanced control
PT-SMA-0.5	I00103010008	Berm	Earthen Berm	—	—	X	X	10/29/2012	Enhanced control
PT-SMA-1	I00203010023	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010024	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010025	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010026	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010027	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010028	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010029	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203010030	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00203060033	Berm	Straw Wattles	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00206010031	Check Dam	Rock Check Dam	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-1	I00206010032	Check Dam	Rock Check Dam	—	X	—	X	5/30/2012	Enhanced control
PT-SMA-2.01	I004A03010004	Berm	Earthen Berm	—	X	—	X	5/30/2012	Enhanced control
S-SMA-1.1	S00203090017	Berm	Curbing	—	—	X	X	11/7/2012	Enhanced control
S-SMA-1.1	S00203010018	Berm	Earthen Berm	—	X	—	X	11/7/2012	Enhanced control
S-SMA-1.1	S00204040016	Channel/Swale	Culvert	X	—	X	—	11/7/2012	Enhanced control
S-SMA-1.1	S00204060014	Channel/Swale	Rip Rap	X	—	X	—	11/7/2012	Enhanced control
S-SMA-1.1	S00204060015	Channel/Swale	Rip Rap	X	—	X	—	11/7/2012	Enhanced control
S-SMA-1.1	S00204060019	Channel/Swale	Rip Rap	X	—	X	—	11/7/2012	Enhanced control

Table 4-3 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
S-SMA-1.1	S00205020013	Sediment Traps and Basins	Sediment Basin	—	X	—	X	11/7/2012	Enhanced control
S-SMA-2.01	S003A05020006	Sediment Traps and Basins	Sediment Basin	—	X	—	X	10/16/2012	Enhanced control
S-SMA-2.01	S003A05020007	Sediment Traps and Basins	Sediment Basin	—	X	—	X	10/16/2012	Enhanced control
S-SMA-2.01	S003A05020008	Sediment Traps and Basins	Sediment Basin	—	X	—	X	10/16/2012	Enhanced control
S-SMA-3.6	S00603010019	Berm	Earthen Berm	—	—	X	X	10/15/2012	Enhanced control
S-SMA-3.6	S00603010020	Berm	Earthen Berm	—	—	X	X	10/15/2012	Enhanced control
S-SMA-3.6	S00606010016	Check Dam	Rock Check Dam	—	—	X	X	10/15/2012	Enhanced control
S-SMA-3.6	S00606010017	Check Dam	Rock Check Dam	—	X	—	X	10/15/2012	Enhanced control
S-SMA-3.6	S00606010018	Check Dam	Rock Check Dam	—	X	—	X	10/15/2012	Enhanced control
S-SMA-4.1	S01103090005	Berm	Curbing	—	—	X	X	9/6/2012	Enhanced control
S-SMA-4.1	S01103120008	Berm	Rock Berm	—	X	—	X	9/6/2012	Enhanced control
S-SMA-4.1	S01108030009	Cap	Concrete/Asphalt Cap	X	—	X	—	9/6/2012	Enhanced control
S-SMA-4.1	S01104020006	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—	9/6/2012	Enhanced control
S-SMA-4.1	S01101010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	9/6/2012	Enhanced control
STRM-SMA-4.2	J03003010004	Berm	Earthen Berm	—	X	—	X	8/7/2012	Enhanced control
STRM-SMA-4.2	J03001010005	Seed and Mulch	Seed and Wood Mulch	X	—	—	—	7/20/2012	Enhanced control
STRM-SMA-5.05	J03101040011	Seed and Mulch	Seeding	X	—	—	—	5/14/2012	Enhanced control
W-SMA-1.5	W00203010015	Berm	Earthen Berm	—	X	—	X	8/21/2012	Enhanced control
W-SMA-1.5	W00206010016	Check Dam	Rock Check Dam	—	X	—	X	8/21/2012	Enhanced control
W-SMA-1.5	W00205020013	Sediment Traps and Basins	Sediment Basin	—	X	—	X	8/21/2012	Enhanced control
W-SMA-1.5	W00205020014	Sediment Traps and Basins	Sediment Basin	—	X	—	X	8/21/2012	Enhanced control
W-SMA-10	W01803010022	Berm	Earthen Berm	—	X	—	X	7/31/2012	Enhanced control
W-SMA-10	W01803010023	Berm	Earthen Berm	—	X	—	X	7/31/2012	Enhanced control
W-SMA-10	W01803010024	Berm	Earthen Berm	—	X	—	X	7/31/2012	Enhanced control
W-SMA-11.7	W01903010041	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010042	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control

Table 4-3 (continued)

SMA	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comments
W-SMA-11.7	W01903010043	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010044	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010045	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010046	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010047	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010048	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010049	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01903010050	Berm	Earthen Berm	—	X	—	X	9/25/2012	Enhanced control
W-SMA-11.7	W01904010051	Channel/Swale	Earthen Channel/Swale	X	—	X	—	9/25/2012	Enhanced control
W-SMA-14.1	W02103010016	Berm	Earthen Berm	—	X	—	X	7/23/2012	Enhanced control
W-SMA-14.1	W02103010017	Berm	Earthen Berm	—	X	—	X	7/23/2012	Enhanced control
W-SMA-14.1	W02103010018	Berm	Earthen Berm	—	X	—	X	7/23/2012	Enhanced control
W-SMA-14.1	W02103010019	Berm	Earthen Berm	—	X	—	X	7/23/2012	Enhanced control
W-SMA-14.1	W02103010020	Berm	Earthen Berm	—	—	X	X	7/23/2012	Enhanced control
W-SMA-15.1	W02203010004	Berm	Earthen Berm	—	—	X	X	9/27/2012	Enhanced control
W-SMA-15.1	W02203010005	Berm	Earthen Berm	—	X	—	X	9/27/2012	Enhanced control
W-SMA-2.05	W00303010007	Berm	Earthen Berm	—	X	—	X	8/23/2012	Enhanced control
W-SMA-2.05	W00303010008	Berm	Earthen Berm	—	X	—	X	8/23/2012	Enhanced control
W-SMA-2.05	W00306010009	Check Dam	Rock Check Dam	—	X	—	X	8/23/2012	Enhanced control
W-SMA-8.71	W012A03010004	Berm	Earthen Berm	—	X	—	X	11/6/2012	Enhanced control
W-SMA-8.71	W012A03010005	Berm	Earthen Berm	—	—	X	X	11/6/2012	Enhanced control

*— = Not applicable.

Table 4-4
Cumulative List of Individual Permit Sites with a Certificate of Completion under the Consent Order

Site No.	Site Priority	Permitted Feature	SMA	Corrective Action Complete Status	Date Issued	Reference
00-011(c)	Moderate	R004	R-SMA-2.05	Complete without Controls	May 16, 2012	NMED 2012, 520388
00-018(b)	Moderate	P004	P-SMA-0.3	Complete without Controls	January 14, 2011	NMED 2011,111673
01-001(b)	Moderate	L007	LA-SMA-2.3	Complete with Controls	September 10, 2010	NMED 2010, 110667
01-001(c)	Moderate	L011	LA-SMA-4.2	Complete with Controls	September 10, 2010	NMED 2010, 110667
01-001(e)	High	L008	LA-SMA-3.1	Complete with Controls	September 10, 2010	NMED 2010, 110667
01-003(e)	High	L012A	LA-SMA-5.02	Complete with Controls	September 10, 2010	NMED 2010, 110667
01-006(d)	Moderate	L011	LA-SMA-4.2	Complete with Controls	September 10, 2010	NMED 2010, 110667
03-056(c)	High	S003	S-SMA-2	Complete with Controls	February 18, 2011	NMED 2011, 111821
16-030(c)	Moderate	V003	CDV-SMA-1.4	Complete without Controls	January 23, 2008	NMED 2008, 100116
21-013(b)	Moderate	L019A	LA-SMA-5.92	Complete with Controls	June 3, 2011	NMED 2011, 203706
21-013(g)	Moderate	L019A	LA-SMA-5.92	Complete with Controls	June 3, 2011	NMED 2011, 203706
21-018(a)	Moderate	L019A	LA-SMA-5.92	Complete with Controls	June 3, 2011	NMED 2011, 203706
21-023(c)	Moderate	L019	LA-SMA-5.91	Complete with Controls	June 3, 2011	NMED 2011, 203706
32-002(b1)	Moderate	L017	LA-SMA-5.361	Complete with Controls	December 28, 2012	NMED 2012, 521746
32-003	Moderate	L017A	LA-SMA-5.362	Complete with Controls	December 20, 2012	NMED 2012, 521776
32-004	Moderate	L016	LA-SMA-5.33	Complete with Controls	December 28, 2012	NMED 2012, 521776
39-001(b)	Moderate	A005	A-SMA-2.8	Complete without Controls	April 6, 2010	NMED 2010, 110430
39-002(c)	Moderate	A004	A-SMA-2.7	Complete without Controls	April 6, 2010	NMED 2010, 110430
43-001(b2)	Moderate	L004	LA-SMA-1.1	Complete with Controls	September 10, 2010	NMED 2010, 110667
46-004(m)	Moderate	C003	CDB-SMA-0.55	Complete without Controls	July 13, 2012	NMED 2012, 520940
48-007(a)	Moderate	M006	M-SMA-4	Complete with Controls	September 7, 2010	NMED 2010, 110665
48-007(d)	Moderate	M006	M-SMA-4	Complete with Controls	September 7, 2010	NMED 2010, 110665
48-010	Moderate	M006	M-SMA-4	Complete with Controls	September 7, 2010	NMED 2010, 110665
53-002(a)	Moderate	L030	LA-SMA-10.11	Complete with Controls	September 13, 2006	NMED 2006, 095421
73-002	Moderate	P006	P-SMA-2	Complete with Controls	August 13, 2007	NMED 2007, 098441

Table 4-4 (continued)

Site No.	Site Priority	Permitted Feature	SMA	Corrective Action Complete Status	Date Issued	Reference
73-006	Moderate	P006	P-SMA-2	Complete with Controls	August 13, 2007	NMED 2007, 098441
C-00-020	Moderate	R001	R-SMA-0.5	Complete without Controls	May 16, 2012	NMED 2012, 520388
C-46-001	Moderate	C004	CDB-SMA-1	Complete without Controls	July 13, 2012	NMED 2012, 520940

Table 4-5
List of Sites with Certification of Completion of Corrective Action

Permitted Feature	Associated SMA Number	Site Number	Watershed	Site Priority
R001	R-SMA-0.5	C-00-020	Los Alamos/Pueblo	Moderate
L004	LA-SMA-1.1	43-001(b2)	Los Alamos/Pueblo	Moderate
L007	LA-SMA-2.3	01-001(b)	Los Alamos/Pueblo	Moderate
L012A	LA-SMA-5.02	01-003(e)	Los Alamos/Pueblo	High
L019	LA-SMA-5.91	21-023(c)	Los Alamos/Pueblo	Moderate
S003	S-SMA-2	03-056(c)	Sandia	High
C004	CDB-SMA-1	C-46-001	Mortandad	Moderate
M006	M-SMA-4	48-007(a)	Mortandad	Moderate
		48-007(d)	Mortandad	Moderate
		48-010	Mortandad	Moderate
V003	CDV-SMA-1.4	16-030(c)	Water/Cañon de Valle	Moderate
A004	A-SMA-2.7	39-002(c)	Ancho	Moderate

Table 4-6
Summary of Site Corrective Actions Planned

Permitted Feature	SMA	Site	Site Priority	Corrective Action Planned
R003	R-SMA-1.95	00-015	MPS	On-hold: Unexploded Ordinance
J027	PJ-SMA-20	54-017	HPS	Force Majeure
P002	ACID-SMA-2	45-001	MPS	Consent Order Certificate of Completion
		45-002	MPS	Consent Order Certificate of Completion
		45-004	MPS	Consent Order Certificate of Completion
M006	M-SMA-4	48-001	MPS	Consent Order Certificate of Completion
M013	M-SMA-10.3	35-014(e2)	HPS	Consent Order Certificate of Completion
		35-016(i)	HPS	Consent Order Certificate of Completion
S005B	S-SMA-3.53	03-014(b2)	HPS	No Exposure
S016	S-SMA-6	72-001	HPS	No Exposure
J028	STRM-SMA-1.05	08-009(f)	MPS	No Exposure
F001	F-SMA-2	36-004(c)	MPS	Total Retention
M008	M-SMA-6	35-016(h)	MPS	No Exposure/Total Retention
T002	T-SMA-1	50-009	HPS	No Exposure/Total Retention
		50-006(a)	HPS	Enhanced Control
S001	S-SMA-0.25	03-052(f)	HPS	Enhanced Control
		03-013(a)	HPS	Enhanced Control
S003	S-SMA-2	03-012(b)	HPS	Enhanced Control
		03-045(b)	HPS	Enhanced Control
		03-045(c)	HPS	Enhanced Control
J016	PJ-SMA-13.7	18-010(b)	MPS	Enhanced Control
R002	R-SMA-1	C-00-041	MPS	Enhanced Control
P002	ACID-SMA-2	01-002(b)-00	MPS	Enhanced Control
P003	ACID-SMA-2.1	01-002(b)-00	MPS	Enhanced Control
L005	LA-SMA-1.25	C-43-001	MPS	Enhanced Control
L010	LA-SMA-4.1	01-003(b)	MPS	Enhanced Control
		01-006(b)	MPS	Enhanced Control
L019	LA-SMA-5.91	21-021	MPS	Enhanced Control
		21-009	MPS	Enhanced Control
		21-027(d)	MPS	Enhanced Control
D001	DP-SMA-0.3	21-029	MPS	Enhanced Control
M002B	M-SMA-1.22	03-045(h)	MPS	Enhanced Control
M006	M-SMA-4	48-005	MPS	Enhanced Control
M009	M-SMA-7	35-016(g)	MPS	Enhanced Control
T005	T-SMA-3	35-016(b)	MPS	Enhanced Control
E001	2M-SMA-1	03-010(a)	MPS	Enhanced Control
E010	2M-SMA-1.8	03-001(k)	MPS	Enhanced Control

Table 4-6 (continued)

Permitted Feature	SMA	Site	Site Priority	Corrective Action Planned
E011	2M-SMA-1.9	03-003(a)	MPS	Enhanced Control
E012	2M-SMA-2	03-050(d)	MPS	Enhanced Control
		03-054(b)	MPS	Enhanced Control
E013	2M-SMA-2.2	03-003(k)	MPS	Enhanced Control
J005	PJ-SMA-5	22-015(c)	MPS	Enhanced Control
J029	STRM-SMA-1.5	08-009(d)	MPS	Enhanced Control
V003	CDV-SMA-1.4	16-020	MPS	Enhanced Control
		16-026(l)	MPS	Enhanced Control
		16-028(c)	MPS	Enhanced Control
V008	CDV-SMA-2.41	16-018	MPS	Enhanced Control
I003	PT-SMA-1.7	15-006(a)	MPS	Enhanced Control
W001	W-SMA-1	16-017(j)-99	MPS	Enhanced Control
		16-026(c2)	MPS	Enhanced Control
		16-026(v)	MPS	Enhanced Control
W006	W-SMA-5	16-026(b)	MPS	Enhanced Control
		16-001(e)	MPS	Enhanced Control
		16-026(e)	MPS	Enhanced Control
		16-026(c)	MPS	Enhanced Control
		16-003(f)	MPS	Enhanced Control
		16-026(d)	MPS	Enhanced Control
Q002B	CHQ-SMA-1.03	33-017	MPS	Enhanced Control
		C-33-001	MPS	Enhanced Control
		C-33-003	MPS	Enhanced Control
		33-012(a)	MPS	Enhanced Control
		33-008(c)	MPS	Enhanced Control
Q003	CHQ-SMA-2	33-004(d)	MPS	Enhanced Control
		33-007(c)	MPS	Enhanced Control
		C-33-003	MPS	Enhanced Control

Table 6-1
Individual Permit Rain Gage Network during 2012

Rain Gage	Number of SMAs	Number of Sites
LANL Meteorology Towers		
RG-NCOM	3	3
RG-TA-06	23	30
RG-TA-53	11	21
RG-TA-54	6	11
LANL Seasonal Rain Gages		
RG038	34	70
RG055.5	16	25
RG121.9	22	30
RG200.5	23	51
RG203	12	18
RG240	5	5
RG245.5	19	43
RG253	9	17
RG257	29	56
RG262.4	14	21
RG265	4	6
RG267.4	5	8
RG340	15	34

Table 6-2
Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
4/26/2012	RG203	0.34	M016	M-SMA-12.5	05/01/12	Yes
			M017	M-SMA-12.6	05/01/12	Yes
			M018	M-SMA-12.7	05/01/12	Yes
			M019	M-SMA-12.8	05/01/12	Yes
			M020	M-SMA-12.9	05/01/12	Yes
			M021	M-SMA-12.92	05/01/12	Yes
			M022	M-SMA-13	05/01/12	Yes
			S007	S-SMA-3.7	05/01/12	Yes
			S008	S-SMA-3.71	05/01/12	Yes
			S009	S-SMA-3.72	05/01/12	Yes
			S010	S-SMA-3.95	05/01/12	Yes
			S012	S-SMA-4.5	05/01/12	Yes
5/8/2012	RG265	0.58	A003	A-SMA-2.5	05/15/12	Yes
			A004	A-SMA-2.7	05/15/12	Yes
			A005	A-SMA-2.8	05/15/12	Yes
			A006	A-SMA-3	05/15/12	Yes
5/8/2012	RG-TA-54	0.27	C010	CDB-SMA-4	05/15/12	Yes
			J023	PJ-SMA-16	05/15/12	Yes
			J024	PJ-SMA-17	05/15/12	Yes
			J025	PJ-SMA-19	05/15/12	Yes
			J026	PJ-SMA-18	05/15/12	Yes
			J027	PJ-SMA-20	05/15/12	Yes
5/13/2012	RG253	0.29	J002	PJ-SMA-2	05/24/12	Yes
			V001	CDV-SMA-1.2	05/15/12	Yes
			V002	CDV-SMA-1.3	05/15/12	Yes
			V003	CDV-SMA-1.4	05/15/12	Yes
			V004	CDV-SMA-1.45	05/15/12	Yes
			V005	CDV-SMA-1.7	05/15/12	Yes
			W001	W-SMA-1	05/15/12	Yes
			W002	W-SMA-1.5	05/17/12	Yes
			W003	W-SMA-2.05	05/16/12	Yes
6/28/2012	RG253	0.32	J002	PJ-SMA-2	07/13/12	Yes
			V001	CDV-SMA-1.2	07/11/12	Yes
			V002	CDV-SMA-1.3	07/11/12	Yes
			V003	CDV-SMA-1.4	07/11/12	Yes
			V004	CDV-SMA-1.45	07/11/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
6/28/2012	RG253	0.32	V005	CDV-SMA-1.7	07/11/12	Yes
			W001	W-SMA-1	07/11/12	Yes
			W002	W-SMA-1.5	07/11/12	Yes
			W003	W-SMA-2.05	07/11/12	Yes
7/2/2012	RG-TA-54	0.73	C010	CDB-SMA-4	07/12/12	Yes
			J023	PJ-SMA-16	07/09/12	Yes
			J024	PJ-SMA-17	07/12/12	Yes
			J025	PJ-SMA-19	07/11/12	Yes
			J026	PJ-SMA-18	07/11/12	Yes
			J027	PJ-SMA-20	07/11/12	Yes
7/4/2012	RG240	0.45	J001	PJ-SMA-1.05	07/17/12	Yes
			J028	STRM-SMA-1.05	07/17/12	Yes
			J029	STRM-SMA-1.5	07/17/12	Yes
			J030	STRM-SMA-4.2	07/17/12	Yes
			J031	STRM-SMA-5.05	07/17/12	Yes
7/4/2012	RG257	0.42	J003	PJ-SMA-3.05	07/17/12	Yes
			J004	PJ-SMA-4.05	07/17/12	Yes
			V006	CDV-SMA-2	07/18/12	Yes
			V007	CDV-SMA-2.3	07/17/12	Yes
			V008	CDV-SMA-2.41	07/17/12	Yes
			V008A	CDV-SMA-2.42	07/17/12	Yes
			V009	CDV-SMA-2.5	07/17/12	Yes
			V009A	CDV-SMA-2.51	07/17/12	Yes
			V010	CDV-SMA-3	07/17/12	Yes
			V011	CDV-SMA-4	07/17/12	Yes
			V012	CDV-SMA-6.01	07/17/12	Yes
			V012A	CDV-SMA-6.02	07/17/12	Yes
			V013	CDV-SMA-7	07/17/12	Yes
			W004	W-SMA-3.5	07/17/12	Yes
			W005	W-SMA-4.1	07/17/12	Yes
			W006	W-SMA-5	07/17/12	Yes
			W007	W-SMA-6	07/17/12	Yes
			W008	W-SMA-7	07/17/12	Yes
			W009	W-SMA-7.8	07/17/12	Yes
			W010	W-SMA-7.9	07/17/12	Yes
			W011	W-SMA-8	07/17/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
7/4/2012	RG257	0.42	W012	W-SMA-8.7	07/17/12	Yes
			W012A	W-SMA-8.71	07/17/12	Yes
			W013	W-SMA-9.05	07/17/12	Yes
			W014	W-SMA-9.5	07/17/12	Yes
			W015	W-SMA-9.7	07/17/12	Yes
			W016	W-SMA-9.8	07/17/12	Yes
			W017	W-SMA-9.9	07/17/12	Yes
			W018	W-SMA-10	07/17/12	Yes
7/4/2012	RG262.4	0.3	H002	3M-SMA-0.4	07/16/12	Yes
			H003	3M-SMA-0.5	07/16/12	Yes
			I001	PT-SMA-0.5	07/16/12	Yes
			I002	PT-SMA-1	07/16/12	Yes
			I003	PT-SMA-1.7	07/17/12	Yes
			I004	PT-SMA-2	07/16/12	Yes
			I004A	PT-SMA-2.01	07/16/12	Yes
			V014	CDV-SMA-8	07/17/12	Yes
			V015	CDV-SMA-8.5	07/12/12	Yes
			V016	CDV-SMA-9.05	07/17/12	Yes
			W019	W-SMA-11.7	07/17/12	Yes
			W020	W-SMA-12.05	07/17/12	Yes
			W021	W-SMA-14.1	07/17/12	Yes
			W022	W-SMA-15.1	07/17/12	Yes
7/4/2012	RG265	0.26	A003	A-SMA-2.5	07/17/12	Yes
			A004	A-SMA-2.7	07/17/12	Yes
			A005	A-SMA-2.8	07/17/12	Yes
			A006	A-SMA-3	07/17/12	Yes
7/4/2012	RG340	0.65	A007	A-SMA-3.5	07/17/12	Yes
			A008	A-SMA-4	07/18/12	Yes
			A009	A-SMA-6	07/18/12	Yes
			Q001	CHQ-SMA-0.5	07/18/12	Yes
			Q002	CHQ-SMA-1.01	07/18/12	Yes
			Q002A	CHQ-SMA-1.02	07/18/12	Yes
			Q002B	CHQ-SMA-1.03	07/18/12	Yes
			Q003	CHQ-SMA-2	07/18/12	Yes
			Q004	CHQ-SMA-3.05	07/18/12	Yes
			Q005	CHQ-SMA-4	07/18/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
7/4/2012	RG340	0.65	Q006	CHQ-SMA-4.1	07/18/12	Yes
			Q007	CHQ-SMA-4.5	07/18/12	Yes
			Q008	CHQ-SMA-5.05	07/18/12	Yes
			Q009	CHQ-SMA-6	07/18/12	Yes
			Q010	CHQ-SMA-7.1	07/18/12	Yes
7/7/2012	RG038	0.27	D001	DP-SMA-0.3	07/16/12	Yes
			D002	DP-SMA-0.4	07/17/12	Yes
			D003	DP-SMA-0.6	07/17/12	Yes
			D004	DP-SMA-1	07/16/12	Yes
			D005	DP-SMA-2	07/16/12	Yes
			D006	DP-SMA-2.35	07/16/12	Yes
			D007	DP-SMA-3	07/12/12	Yes
			L015	LA-SMA-5.31	07/17/12	Yes
			L016	LA-SMA-5.33	07/16/12	Yes
			L017	LA-SMA-5.361	07/16/12	Yes
			L017A	LA-SMA-5.362	07/16/12	Yes
			L018	LA-SMA-5.51	07/10/12	Yes
			L018A	LA-SMA-5.52	07/10/12	Yes
			L018B	LA-SMA-5.53	07/10/12	Yes
			L018C	LA-SMA-5.54	07/10/12	Yes
			L019	LA-SMA-5.91	07/16/12	Yes
			L019A	LA-SMA-5.92	07/16/12	Yes
			L020	LA-SMA-6.25	07/12/12	Yes
			L021	LA-SMA-6.27	07/12/12	Yes
			L022	LA-SMA-6.3	07/12/12	Yes
			L022A	LA-SMA-6.31	07/12/12	Yes
			L023	LA-SMA-6.32	07/12/12	Yes
			L024	LA-SMA-6.34	07/12/12	Yes
			L025	LA-SMA-6.36	07/12/12	Yes
			L026	LA-SMA-6.38	07/12/12	Yes
			L027	LA-SMA-6.395	07/12/12	Yes
			L028	LA-SMA-6.5	07/12/12	Yes
			P005	P-SMA-1	07/20/12	Yes
			P006	P-SMA-2	07/18/12	Yes
			P007	P-SMA-2.15	07/18/12	Yes
			P008	P-SMA-2.2	07/16/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
7/7/2012	RG038	0.27	R003	R-SMA-1.95	07/11/12	Yes
			R005	R-SMA-2.3	07/11/12	Yes
			R006	R-SMA-2.5	07/11/12	Yes
7/7/2012	RG203	0.26	M016	M-SMA-12.5	07/17/12	Yes
			M017	M-SMA-12.6	07/17/12	Yes
			M018	M-SMA-12.7	07/17/12	Yes
			M019	M-SMA-12.8	07/17/12	Yes
			M020	M-SMA-12.9	07/17/12	Yes
			M021	M-SMA-12.92	07/17/12	Yes
			M022	M-SMA-13	07/17/12	Yes
			S007	S-SMA-3.7	07/19/12	Yes
			S008	S-SMA-3.71	07/19/12	Yes
			S009	S-SMA-3.72	07/19/12	Yes
			S010	S-SMA-3.95	07/19/12	Yes
			S012	S-SMA-4.5	07/19/12	Yes
7/7/2012	RG267.4	0.3	A001	A-SMA-1.1	07/17/12	Yes
			A002	A-SMA-2	07/17/12	Yes
			F001	F-SMA-2	07/16/12	Yes
			I005	PT-SMA-3	07/16/12	Yes
			I007	PT-SMA-4.2	07/16/12	Yes
7/11/2012	RG121.9	0.41	E001	2M-SMA-1	07/25/12	Yes
			E011	2M-SMA-1.9	07/17/12	Yes
			E012	2M-SMA-2	07/25/12	Yes
			E013	2M-SMA-2.2	07/25/12	Yes
			L001	LA-SMA-0.85	07/25/12	Yes
			L002	LA-SMA-0.9	07/18/12	Yes
			L003	LA-SMA-1	07/18/12	Yes
			L004	LA-SMA-1.1	07/25/12	Yes
			L005	LA-SMA-1.25	07/25/12	Yes
			M001	M-SMA-1	07/23/12	Yes
			M002	M-SMA-1.2	07/20/12	Yes
			M002A	M-SMA-1.21	07/20/12	Yes
			M002B	M-SMA-1.22	07/23/12	Yes
			S001	S-SMA-0.25	07/24/12	Yes
			S002	S-SMA-1.1	07/24/12	Yes
			S003	S-SMA-2	07/24/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
7/11/2012	RG121.9	0.41	S003A	S-SMA-2.01	07/23/12	Yes
			S004	S-SMA-2.8	07/25/12	Yes
			S005	S-SMA-3.51	07/23/12	Yes
			S005A	S-SMA-3.52	07/23/12	Yes
			S005B	S-SMA-3.53	07/24/12	Yes
			S006	S-SMA-3.6	07/23/12	Yes
7/11/2012	RG253	1.74	V001	CDV-SMA-1.2	07/18/12	Yes
			V002	CDV-SMA-1.3	07/18/12	Yes
			V003	CDV-SMA-1.4	07/19/12	Yes
			V004	CDV-SMA-1.45	07/18/12	Yes
			V005	CDV-SMA-1.7	07/20/12	Yes
			W001	W-SMA-1	07/18/12	Yes
			W002	W-SMA-1.5	07/19/12	Yes
			W003	W-SMA-2.05	07/18/12	Yes
7/11/2012	RG-TA-06	0.4	E002	2M-SMA-1.42	07/18/12	Yes
			E003	2M-SMA-1.43	07/18/12	Yes
			E004	2M-SMA-1.44	07/18/12	Yes
			E005	2M-SMA-1.45	07/18/12	Yes
			E006	2M-SMA-1.5	07/18/12	Yes
			E007	2M-SMA-1.65	07/18/12	Yes
			E008	2M-SMA-1.67	07/18/12	Yes
			E009	2M-SMA-1.7	07/17/12	Yes
			E010	2M-SMA-1.8	07/17/12	Yes
			E014	2M-SMA-3	07/18/12	Yes
			E015	2M-SMA-2.5	07/18/12	Yes
			H001	3M-SMA-0.2	07/19/12	Yes
			J005	PJ-SMA-5	07/18/12	Yes
			J006	PJ-SMA-5.1	07/18/12	Yes
			J007	PJ-SMA-6	07/19/12	Yes
			J008	PJ-SMA-7	07/19/12	Yes
			J009	PJ-SMA-8	07/19/12	Yes
			J010	PJ-SMA-9	07/19/12	Yes
			J012	PJ-SMA-10	07/19/12	Yes
			J013	PJ-SMA-11	07/19/12	Yes
			J014	PJ-SMA-11.1	07/19/12	Yes
			M003	M-SMA-3	07/20/12	Yes
			M004	M-SMA-3.1	07/20/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
7/24/2012	RG253	0.55	J002	PJ-SMA-2	07/27/12	Yes
			V001	CDV-SMA-1.2	07/27/12	Yes
			V002	CDV-SMA-1.3	07/27/12	Yes
			V003	CDV-SMA-1.4	08/08/12	Yes
			V004	CDV-SMA-1.45	08/07/12	Yes
			V005	CDV-SMA-1.7	08/08/12	Yes
			W001	W-SMA-1	08/08/12	Yes
			W002	W-SMA-1.5	08/08/12	Yes
			W003	W-SMA-2.05	08/08/12	Yes
7/25/2012	RG262.4	0.27	H002	3M-SMA-0.4	07/27/12	Yes
			H003	3M-SMA-0.5	07/27/12	Yes
			I001	PT-SMA-0.5	08/08/12	Yes
			I002	PT-SMA-1	08/08/12	Yes
			I003	PT-SMA-1.7	07/27/12	Yes
			I004	PT-SMA-2	07/30/12	Yes
			I004A	PT-SMA-2.01	07/30/12	Yes
			V014	CDV-SMA-8	07/27/12	Yes
			V015	CDV-SMA-8.5	07/27/12	Yes
			V016	CDV-SMA-9.05	07/27/12	Yes
			W019	W-SMA-11.7	08/08/12	Yes
			W020	W-SMA-12.05	08/08/12	Yes
			W021	W-SMA-14.1	07/27/12	Yes
			W022	W-SMA-15.1	08/08/12	Yes
8/1/2012	RG-TA-54	0.3	C010	CDB-SMA-4	08/03/12	Yes
			J023	PJ-SMA-16	08/03/12	Yes
			J024	PJ-SMA-17	08/03/12	Yes
			J025	PJ-SMA-19	08/03/12	Yes
			J026	PJ-SMA-18	08/03/12	Yes
			J027	PJ-SMA-20	08/08/12	Yes
8/2/2012	RG265	0.26	A003	A-SMA-2.5	08/06/12	Yes
			A004	A-SMA-2.7	08/06/12	Yes
			A005	A-SMA-2.8	08/06/12	Yes
			A006	A-SMA-3	08/06/12	Yes
8/3/2012	RG-NCOM	0.73	R001	R-SMA-0.5	08/07/12	Yes
			R002	R-SMA-1	08/13/12	Yes
			R004	R-SMA-2.05	08/16/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
8/5/2012	RG203	0.27	M016	M-SMA-12.5	08/07/12	Yes
			M017	M-SMA-12.6	08/07/12	Yes
			M018	M-SMA-12.7	08/08/12	Yes
			M019	M-SMA-12.8	08/08/12	Yes
			M020	M-SMA-12.9	08/08/12	Yes
			M021	M-SMA-12.92	08/08/12	Yes
			M022	M-SMA-13	08/08/12	Yes
			S007	S-SMA-3.7	08/08/12	Yes
			S008	S-SMA-3.71	08/08/12	Yes
			S009	S-SMA-3.72	08/08/12	Yes
			S010	S-SMA-3.95	08/08/12	Yes
			S012	S-SMA-4.5	08/08/12	Yes
8/5/2012	RG-TA-53	0.39	B001	B-SMA-0.5	08/13/12	Yes
			D008	DP-SMA-4	08/07/12	Yes
			L029	LA-SMA-9	08/07/12	Yes
			L030	LA-SMA-10.11	08/08/12	Yes
			L030A	LA-SMA-10.12	08/08/12	Yes
			P004	P-SMA-0.3	08/08/12	Yes
			S011	S-SMA-4.1	08/09/12	Yes
			S013	S-SMA-5	08/09/12	Yes
			S014	S-SMA-5.2	08/09/12	Yes
			S015	S-SMA-5.5	08/09/12	Yes
			S016	S-SMA-6	08/09/12	Yes
8/16/2012	RG240	0.38	J001	PJ-SMA-1.05	08/23/12	Yes
			J028	STRM-SMA-1.05	08/30/12	Yes
			J029	STRM-SMA-1.5	08/30/12	Yes
			J030	STRM-SMA-4.2	08/23/12	Yes
			J031	STRM-SMA-5.05	08/23/12	Yes
8/16/2012	RG253	0.38	J002	PJ-SMA-2	08/23/12	Yes
			V001	CDV-SMA-1.2	08/20/12	Yes
			V002	CDV-SMA-1.3	08/20/12	Yes
			V003	CDV-SMA-1.4	08/30/12	Yes
			V004	CDV-SMA-1.45	08/20/12	Yes
			V005	CDV-SMA-1.7	08/21/12	Yes
			W001	W-SMA-1	08/30/12	Yes
			W002	W-SMA-1.5	08/30/12	Yes
			W003	W-SMA-2.05	08/30/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
8/16/2012	RG340	0.28	A007	A-SMA-3.5	08/20/12	Yes
			A008	A-SMA-4	08/20/12	Yes
			A009	A-SMA-6	08/20/12	Yes
			Q001	CHQ-SMA-0.5	08/20/12	Yes
			Q002	CHQ-SMA-1.01	08/20/12	Yes
			Q002A	CHQ-SMA-1.02	08/20/12	Yes
			Q002B	CHQ-SMA-1.03	08/30/12	Yes
			Q003	CHQ-SMA-2	08/30/12	Yes
			Q004	CHQ-SMA-3.05	08/20/12	Yes
			Q005	CHQ-SMA-4	08/20/12	Yes
			Q006	CHQ-SMA-4.1	08/20/12	Yes
			Q007	CHQ-SMA-4.5	08/20/12	Yes
			Q008	CHQ-SMA-5.05	08/20/12	Yes
			Q009	CHQ-SMA-6	08/20/12	Yes
			Q010	CHQ-SMA-7.1	08/20/12	Yes
8/22/2012	RG245.5	0.31	C002	CDB-SMA-0.25	08/29/12	Yes
			C003	CDB-SMA-0.55	08/30/12	Yes
			C004	CDB-SMA-1	08/30/12	Yes
			C005	CDB-SMA-1.15	08/29/12	Yes
			C006	CDB-SMA-1.35	08/29/12	Yes
			C007	CDB-SMA-1.54	08/30/12	Yes
			C008	CDB-SMA-1.55	08/29/12	Yes
			C009	CDB-SMA-1.65	08/29/12	Yes
			H004	3M-SMA-0.6	08/30/12	Yes
			H005	3M-SMA-2.6	08/29/12	Yes
			H006	3M-SMA-4	08/29/12	Yes
			J015	PJ-SMA-13	08/29/12	Yes
			J016	PJ-SMA-13.7	08/29/12	Yes
			J017	PJ-SMA-14	08/29/12	Yes
			J018	PJ-SMA-14.2	08/29/12	Yes
			J019	PJ-SMA-14.3	08/29/12	Yes
			J020	PJ-SMA-14.4	08/29/12	Yes
			J021	PJ-SMA-14.6	08/29/12	Yes
			J022	PJ-SMA-14.8	08/29/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
8/24/2012	RG-TA-53	0.5	B001	B-SMA-0.5	08/28/12	Yes
			D008	DP-SMA-4	08/28/12	Yes
			L029	LA-SMA-9	08/28/12	Yes
			L030	LA-SMA-10.11	08/29/12	Yes
			L030A	LA-SMA-10.12	08/29/12	Yes
			P004	P-SMA-0.3	08/28/12	Yes
			S011	S-SMA-4.1	08/28/12	Yes
			S013	S-SMA-5	08/29/12	Yes
			S014	S-SMA-5.2	08/29/12	Yes
			S015	S-SMA-5.5	08/29/12	Yes
			S016	S-SMA-6	08/29/12	Yes
8/26/2012	RG265	0.26	A003	A-SMA-2.5	08/28/12	Yes
			A004	A-SMA-2.7	08/28/12	Yes
			A005	A-SMA-2.8	08/28/12	Yes
			A006	A-SMA-3	08/28/12	Yes
8/26/2012	RG267.4	0.39	A001	A-SMA-1.1	08/28/12	Yes
			A002	A-SMA-2	08/28/12	Yes
			F001	F-SMA-2	08/28/12	Yes
			I005	PT-SMA-3	08/29/12	Yes
			I007	PT-SMA-4.2	08/28/12	Yes
9/10/2012	RG262.4	0.25	H002	3M-SMA-0.4	09/20/12	Yes
			H003	3M-SMA-0.5	09/20/12	Yes
			I001	PT-SMA-0.5	09/20/12	Yes
			I002	PT-SMA-1	09/20/12	Yes
			I003	PT-SMA-1.7	09/21/12	Yes
			I004	PT-SMA-2	09/20/12	Yes
			I004A	PT-SMA-2.01	09/20/12	Yes
			V014	CDV-SMA-8	09/20/12	Yes
			V015	CDV-SMA-8.5	09/20/12	Yes
			V016	CDV-SMA-9.05	09/21/12	Yes
			W019	W-SMA-11.7	09/17/12	Yes
			W020	W-SMA-12.05	09/17/12	Yes
			W021	W-SMA-14.1	09/21/12	Yes
			W022	W-SMA-15.1	09/17/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
9/10/2012	RG267.4	0.29	A001	A-SMA-1.1	09/17/12	Yes
			A002	A-SMA-2	09/17/12	Yes
			F001	F-SMA-2	09/19/12	Yes
			I005	PT-SMA-3	09/19/12	Yes
			I007	PT-SMA-4.2	09/20/12	Yes
9/10/2012	RG340	0.28	A007	A-SMA-3.5	09/12/12	Yes
			A008	A-SMA-4	09/18/12	Yes
			A009	A-SMA-6	09/18/12	Yes
			Q001	CHQ-SMA-0.5	09/12/12	Yes
			Q002	CHQ-SMA-1.01	09/18/12	Yes
			Q002A	CHQ-SMA-1.02	09/18/12	Yes
			Q002B	CHQ-SMA-1.03	09/18/12	Yes
			Q003	CHQ-SMA-2	09/19/12	Yes
			Q004	CHQ-SMA-3.05	09/18/12	Yes
			Q005	CHQ-SMA-4	09/18/12	Yes
			Q006	CHQ-SMA-4.1	09/18/12	Yes
			Q007	CHQ-SMA-4.5	09/18/12	Yes
			Q008	CHQ-SMA-5.05	09/18/12	Yes
			Q009	CHQ-SMA-6	09/18/12	Yes
			Q010	CHQ-SMA-7.1	09/18/12	Yes
9/10/2012	RG-TA-06	0.39	E002	2M-SMA-1.42	09/19/12	Yes
			E003	2M-SMA-1.43	09/21/12	Yes
			E004	2M-SMA-1.44	09/19/12	Yes
			E005	2M-SMA-1.45	09/19/12	Yes
			E006	2M-SMA-1.5	09/21/12	Yes
			E007	2M-SMA-1.65	09/21/12	Yes
			E008	2M-SMA-1.67	09/19/12	Yes
			E009	2M-SMA-1.7	09/12/12	Yes
			E010	2M-SMA-1.8	09/12/12	Yes
			E014	2M-SMA-3	09/19/12	Yes
			E015	2M-SMA-2.5	09/19/12	Yes
			H001	3M-SMA-0.2	09/21/12	Yes
			J005	PJ-SMA-5	09/19/12	Yes
			J006	PJ-SMA-5.1	09/19/12	Yes
			J007	PJ-SMA-6	09/21/12	Yes
			J008	PJ-SMA-7	09/21/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
9/10/2012	RG-TA-06	0.39	J009	PJ-SMA-8	09/21/12	Yes
			J010	PJ-SMA-9	09/24/12	Yes
			J012	PJ-SMA-10	09/24/12	Yes
			J013	PJ-SMA-11	09/24/12	Yes
			J014	PJ-SMA-11.1	09/24/12	Yes
			M003	M-SMA-3	09/12/12	Yes
			M004	M-SMA-3.1	09/12/12	Yes
9/27/2012	RG-TA-53	0.35	B001	B-SMA-0.5	10/01/12	Yes
			D008	DP-SMA-4	10/01/12	Yes
			L029	LA-SMA-9	10/01/12	Yes
			L030	LA-SMA-10.11	10/03/12	Yes
			L030A	LA-SMA-10.12	10/03/12	Yes
			P004	P-SMA-0.3	10/01/12	Yes
			S011	S-SMA-4.1	10/03/12	Yes
			S013	S-SMA-5	10/03/12	Yes
			S014	S-SMA-5.2	10/03/12	Yes
			S015	S-SMA-5.5	10/03/12	Yes
			S016	S-SMA-6	10/03/12	Yes
9/28/2012	RG240	0.58	J001	PJ-SMA-1.05	10/05/12	Yes
			J028	STRM-SMA-1.05	10/11/12	Yes
			J029	STRM-SMA-1.5	10/11/12	Yes
			J030	STRM-SMA-4.2	10/05/12	Yes
			J031	STRM-SMA-5.05	10/05/12	Yes
9/28/2012	RG257	0.34	J003	PJ-SMA-3.05	10/10/12	Yes
			J004	PJ-SMA-4.05	10/10/12	Yes
			V006	CDV-SMA-2	10/02/12	Yes
			V007	CDV-SMA-2.3	10/09/12	Yes
			V008	CDV-SMA-2.41	10/09/12	Yes
			V008A	CDV-SMA-2.42	10/09/12	Yes
			V009	CDV-SMA-2.5	10/09/12	Yes
			V009A	CDV-SMA-2.51	10/09/12	Yes
			V010	CDV-SMA-3	10/05/12	Yes
			V011	CDV-SMA-4	10/05/12	Yes
			V012	CDV-SMA-6.01	10/05/12	Yes
			V012A	CDV-SMA-6.02	10/05/12	Yes
			V013	CDV-SMA-7	10/05/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
9/28/2012	RG257	0.34	W004	W-SMA-3.5	10/10/12	Yes
			W005	W-SMA-4.1	10/09/12	Yes
			W006	W-SMA-5	10/10/12	Yes
			W007	W-SMA-6	10/09/12	Yes
			W008	W-SMA-7	10/09/12	Yes
			W009	W-SMA-7.8	10/09/12	Yes
			W010	W-SMA-7.9	10/09/12	Yes
			W011	W-SMA-8	10/09/12	Yes
			W012	W-SMA-8.7	10/10/12	Yes
			W012A	W-SMA-8.71	10/10/12	Yes
			W013	W-SMA-9.05	10/02/12	Yes
			W014	W-SMA-9.5	10/10/12	Yes
			W015	W-SMA-9.7	10/11/12	Yes
			W016	W-SMA-9.8	10/10/12	Yes
			W017	W-SMA-9.9	10/10/12	Yes
			W018	W-SMA-10	10/10/12	Yes
9/28/2012	RG-TA-06	0.25	E002	2M-SMA-1.42	10/11/12	Yes
			E003	2M-SMA-1.43	10/11/12	Yes
			E004	2M-SMA-1.44	10/11/12	Yes
			E005	2M-SMA-1.45	10/11/12	Yes
			E006	2M-SMA-1.5	10/11/12	Yes
			E007	2M-SMA-1.65	10/10/12	Yes
			E008	2M-SMA-1.67	10/11/12	Yes
			E009	2M-SMA-1.7	10/10/12	Yes
			E010	2M-SMA-1.8	10/10/12	Yes
			E014	2M-SMA-3	10/02/12	Yes
			E015	2M-SMA-2.5	10/10/12	Yes
			H001	3M-SMA-0.2	10/05/12	Yes
			J005	PJ-SMA-5	10/02/12	Yes
			J006	PJ-SMA-5.1	10/02/12	Yes
			J007	PJ-SMA-6	10/10/12	Yes
			J008	PJ-SMA-7	10/10/12	Yes
			J009	PJ-SMA-8	10/10/12	Yes
			J010	PJ-SMA-9	10/10/12	Yes
			J012	PJ-SMA-10	10/10/12	Yes
			J013	PJ-SMA-11	10/10/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
9/28/2012	RG-TA-06	0.25	J014	PJ-SMA-11.1	10/10/12	Yes
			M003	M-SMA-3	10/03/12	Yes
			M004	M-SMA-3.1	10/03/12	Yes
10/12/2012	RG038	0.42	D001	DP-SMA-0.3	10/17/12	Yes
			D002	DP-SMA-0.4	10/17/12	Yes
			D003	DP-SMA-0.6	10/17/12	Yes
			D004	DP-SMA-1	10/17/12	Yes
			D005	DP-SMA-2	10/17/12	Yes
			D006	DP-SMA-2.35	10/17/12	Yes
			D007	DP-SMA-3	10/17/12	Yes
			L015	LA-SMA-5.31	10/23/12	Yes
			L016	LA-SMA-5.33	10/18/12	Yes
			L017	LA-SMA-5.361	10/18/12	Yes
			L017A	LA-SMA-5.362	10/18/12	Yes
			L018	LA-SMA-5.51	10/23/12	Yes
			L018A	LA-SMA-5.52	10/23/12	Yes
			L018B	LA-SMA-5.53	10/23/12	Yes
			L018C	LA-SMA-5.54	10/23/12	Yes
			L019	LA-SMA-5.91	10/18/12	Yes
			L019A	LA-SMA-5.92	10/18/12	Yes
			L020	LA-SMA-6.25	10/23/12	Yes
			L021	LA-SMA-6.27	10/18/12	Yes
			L022	LA-SMA-6.3	10/23/12	Yes
			L022A	LA-SMA-6.31	10/23/12	Yes
			L023	LA-SMA-6.32	10/18/12	Yes
			L024	LA-SMA-6.34	10/23/12	Yes
			L025	LA-SMA-6.36	10/18/12	Yes
			L026	LA-SMA-6.38	10/23/12	Yes
			L027	LA-SMA-6.395	10/18/12	Yes
			L028	LA-SMA-6.5	10/17/12	Yes
			P005	P-SMA-1	10/24/12	Yes
			P006	P-SMA-2	10/24/12	Yes
			P007	P-SMA-2.15	10/24/12	Yes
			P008	P-SMA-2.2	10/24/12	Yes
			R003	R-SMA-1.95	10/22/12	Yes
			R005	R-SMA-2.3	10/22/12	Yes
			R006	R-SMA-2.5	10/22/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
10/12/2012	RG055.5	0.27	B002	B-SMA-1	10/19/12	Yes
			L006	LA-SMA-2.1	10/19/12	Yes
			L007	LA-SMA-2.3	10/19/12	Yes
			L008	LA-SMA-3.1	10/19/12	Yes
			L009	LA-SMA-3.9	10/19/12	Yes
			L010	LA-SMA-4.1	10/19/12	Yes
			L011	LA-SMA-4.2	10/19/12	Yes
			L012	LA-SMA-5.01	10/19/12	Yes
			L012A	LA-SMA-5.02	10/19/12	Yes
			L013	LA-SMA-5.2	10/23/12	Yes
			L014	LA-SMA-5.35	10/23/12	Yes
			P001	ACID-SMA-1.05	10/19/12	Yes
			P002	ACID-SMA-2	10/19/12	Yes
			P002A	ACID-SMA-2.01	10/19/12	Yes
			P003	ACID-SMA-2.1	10/25/12	Yes
			P009	P-SMA-3.05	10/19/12	Yes
10/12/2012	RG121.9	0.26	E001	2M-SMA-1	10/25/12	Yes
			E011	2M-SMA-1.9	10/25/12	Yes
			E012	2M-SMA-2	10/25/12	Yes
			E013	2M-SMA-2.2	10/25/12	Yes
			L001	LA-SMA-0.85	10/25/12	Yes
			L002	LA-SMA-0.9	10/19/12	Yes
			L003	LA-SMA-1	10/19/12	Yes
			L004	LA-SMA-1.1	10/25/12	Yes
			L005	LA-SMA-1.25	10/25/12	Yes
			M001	M-SMA-1	10/22/12	Yes
			M002	M-SMA-1.2	10/22/12	Yes
			M002A	M-SMA-1.21	10/22/12	Yes
			M002B	M-SMA-1.22	10/22/12	Yes
			S001	S-SMA-0.25	10/23/12	Yes
			S002	S-SMA-1.1	10/23/12	Yes
			S003	S-SMA-2	10/23/12	Yes
			S003A	S-SMA-2.01	10/23/12	Yes
			S004	S-SMA-2.8	10/23/12	Yes
			S005	S-SMA-3.51	10/23/12	Yes
			S005A	S-SMA-3.52	10/23/12	Yes
			S005B	S-SMA-3.53	10/23/12	Yes
			S006	S-SMA-3.6	10/19/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
10/12/2012	RG200.5	0.38	C001	CDB-SMA-0.15	10/23/12	Yes
			M005	M-SMA-3.5	10/18/12	Yes
			M006	M-SMA-4	10/18/12	Yes
			M007	M-SMA-5	10/18/12	Yes
			M008	M-SMA-6	10/18/12	Yes
			M009	M-SMA-7	10/24/12	Yes
			M010	M-SMA-7.9	10/18/12	Yes
			M011	M-SMA-9.1	10/18/12	Yes
			M012	M-SMA-10	10/18/12	Yes
			M012A	M-SMA-10.01	10/18/12	Yes
			M013	M-SMA-10.3	10/18/12	Yes
			M014	M-SMA-11.1	10/18/12	Yes
			M015	M-SMA-12	10/18/12	Yes
			T001	PRATT-SMA-1.05	10/22/12	Yes
			T002	T-SMA-1	10/25/12	Yes
			T003	T-SMA-2.5	10/23/12	Yes
			T004	T-SMA-2.85	10/23/12	Yes
			T005	T-SMA-3	10/23/12	Yes
			T006	T-SMA-4	10/23/12	Yes
			T007	T-SMA-5	10/23/12	Yes
			T008	T-SMA-6.8	10/22/12	Yes
			T009	T-SMA-7	10/22/12	Yes
			T010	T-SMA-7.1	10/22/12	Yes
10/12/2012	RG203	0.28	M016	M-SMA-12.5	10/22/12	Yes
			M017	M-SMA-12.6	10/22/12	Yes
			M018	M-SMA-12.7	10/22/12	Yes
			M019	M-SMA-12.8	10/22/12	Yes
			M020	M-SMA-12.9	10/22/12	Yes
			M021	M-SMA-12.92	10/22/12	Yes
			M022	M-SMA-13	10/22/12	Yes
			S007	S-SMA-3.7	10/19/12	Yes
			S008	S-SMA-3.71	10/19/12	Yes
			S009	S-SMA-3.72	10/19/12	Yes
			S010	S-SMA-3.95	10/19/12	Yes
			S012	S-SMA-4.5	10/19/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
10/12/2012	RG253	0.33	J002	PJ-SMA-2	10/23/12	Yes
			V001	CDV-SMA-1.2	10/16/12	Yes
			V002	CDV-SMA-1.3	10/16/12	Yes
			V003	CDV-SMA-1.4	10/16/12	Yes
			V004	CDV-SMA-1.45	10/16/12	Yes
			V005	CDV-SMA-1.7	10/18/12	Yes
			W001	W-SMA-1	10/18/12	Yes
			W002	W-SMA-1.5	10/18/12	Yes
			W003	W-SMA-2.05	10/18/12	Yes
10/12/2012	RG-NCOM	0.35	R001	R-SMA-0.5	10/19/12	Yes
			R002	R-SMA-1	10/19/12	Yes
			R004	R-SMA-2.05	10/22/12	Yes
10/12/2012	RG-TA-06	0.53	E002	2M-SMA-1.42	10/22/12	Yes
			E003	2M-SMA-1.43	10/23/12	Yes
			E004	2M-SMA-1.44	10/22/12	Yes
			E005	2M-SMA-1.45	10/22/12	Yes
			E006	2M-SMA-1.5	10/23/12	Yes
			E007	2M-SMA-1.65	10/23/12	Yes
			E008	2M-SMA-1.67	10/24/12	Yes
			E009	2M-SMA-1.7	10/25/12	Yes
			E010	2M-SMA-1.8	10/25/12	Yes
			E014	2M-SMA-3	10/24/12	Yes
			E015	2M-SMA-2.5	10/23/12	Yes
			H001	3M-SMA-0.2	10/24/12	Yes
			J005	PJ-SMA-5	10/23/12	Yes
			J006	PJ-SMA-5.1	10/22/12	Yes
			J007	PJ-SMA-6	10/23/12	Yes
			J008	PJ-SMA-7	10/23/12	Yes
			J009	PJ-SMA-8	10/23/12	Yes
			J010	PJ-SMA-9	10/23/12	Yes
			J012	PJ-SMA-10	10/23/12	Yes
			J013	PJ-SMA-11	10/23/12	Yes
			J014	PJ-SMA-11.1	10/23/12	Yes
			M003	M-SMA-3	10/18/12	Yes
			M004	M-SMA-3.1	10/18/12	Yes

Table 6-2 (continued)

Storm Date	Rain Gage	30-Min Maximum Intensity (in./30 min)	Permitted Feature	SMA	Inspection Date	Inspected within 15 d?
10/12/2012	RG-TA-53	0.29	B001	B-SMA-0.5	10/24/12	Yes
			D008	DP-SMA-4	10/17/12	Yes
			L029	LA-SMA-9	10/17/12	Yes
			L030	LA-SMA-10.11	10/19/12	Yes
			L030A	LA-SMA-10.12	10/19/12	Yes
			P004	P-SMA-0.3	10/24/12	Yes
			S011	S-SMA-4.1	10/19/12	Yes
			S013	S-SMA-5	10/19/12	Yes
			S014	S-SMA-5.2	10/19/12	Yes
			S015	S-SMA-5.5	10/19/12	Yes
			S016	S-SMA-6	10/19/12	Yes

Table 6-3
Summary of
Annual Erosion Evaluation Inspections

Permitted	SMA	Inspection Date
R001	R-SMA-0.5	9-May-12
R002	R-SMA-1	16-Apr-12
R003	R-SMA-1.95	27-Mar-12
R004	R-SMA-2.05	16-Apr-12
R005	R-SMA-2.3	16-Apr-12
R006	R-SMA-2.5	9-May-12
B001	B-SMA-0.5	30-May-12
B002	B-SMA-1	31-May-12
P001	ACID-SMA-1.05	31-May-12
P002	ACID-SMA-2	28-Mar-12
P002A	ACID-SMA-2.01	31-May-12
P003	ACID-SMA-2.1	28-Mar-12
P004	P-SMA-0.3	30-May-12
P005	P-SMA-1	30-May-12
P006	P-SMA-2	30-May-12
P007	P-SMA-2.15	30-May-12
P008	P-SMA-2.2	30-May-12
P009	P-SMA-3.05	31-May-12
L001	LA-SMA-0.85	19-Apr-12
L002	LA-SMA-0.9	22-May-12

Table 6-3 (continued)

Permitted	SMA	Inspection Date
L003	LA-SMA-1	18-Apr-12
L004	LA-SMA-1.1	24-May-12
L005	LA-SMA-1.25	24-May-12
L006	LA-SMA-2.1	24-May-12
L007	LA-SMA-2.3	28-Mar-12
L008	LA-SMA-3.1	22-May-12
L009	LA-SMA-3.9	22-May-12
L010	LA-SMA-4.1	9-May-12
L011	LA-SMA-4.2	9-May-12
L012	LA-SMA-5.01	9-May-12
L012A	LA-SMA-5.02	27-Mar-12
L013	LA-SMA-5.2	22-May-12
L015	LA-SMA-5.31	26-Mar-12
L016	LA-SMA-5.33	28-Mar-12
L014	LA-SMA-5.35	28-Mar-12
L017	LA-SMA-5.361	22-May-12
L017A	LA-SMA-5.362	22-May-12
L018	LA-SMA-5.51	18-Apr-12
L018A	LA-SMA-5.52	18-Apr-12
L018B	LA-SMA-5.53	18-Apr-12
L018C	LA-SMA-5.54	18-Apr-12
L019	LA-SMA-5.91	26-Mar-12
L019A	LA-SMA-5.92	24-May-12
L020	LA-SMA-6.25	22-May-12
L021	LA-SMA-6.27	22-May-12
L022	LA-SMA-6.3	22-May-12
L022A	LA-SMA-6.31	22-May-12
L023	LA-SMA-6.32	22-May-12
L024	LA-SMA-6.34	22-May-12
L025	LA-SMA-6.36	22-May-12
L026	LA-SMA-6.38	22-May-12
L027	LA-SMA-6.395	22-May-12
L028	LA-SMA-6.5	22-May-12
L029	LA-SMA-9	22-May-12
L030	LA-SMA-10.11	29-May-12
L030A	LA-SMA-10.12	26-Mar-12
D001	DP-SMA-0.3	23-Mar-12
D002	DP-SMA-0.4	22-May-12
D003	DP-SMA-0.6	22-May-12

Table 6-3 (continued)

Permitted	SMA	Inspection Date
D004	DP-SMA-1	22-May-12
D005	DP-SMA-2	22-May-12
D006	DP-SMA-2.35	22-May-12
D007	DP-SMA-3	15-May-12
D008	DP-SMA-4	22-May-12
S001	S-SMA-0.25	7-Jun-12
S002	S-SMA-1.1	8-May-12
S003	S-SMA-2	8-May-12
S003A	S-SMA-2.01	4-Jun-12
S004	S-SMA-2.8	9-May-12
S005	S-SMA-3.51	9-May-12
S005A	S-SMA-3.52	9-May-12
S005B	S-SMA-3.53	26-Mar-12
S006	S-SMA-3.6	9-May-12
S007	S-SMA-3.7	29-May-12
S008	S-SMA-3.71	29-May-12
S009	S-SMA-3.72	29-May-12
S010	S-SMA-3.95	29-May-12
S011	S-SMA-4.1	26-Mar-12
S012	S-SMA-4.5	29-May-12
S013	S-SMA-5	29-May-12
S014	S-SMA-5.2	29-May-12
S015	S-SMA-5.5	29-May-12
S016	S-SMA-6	26-Mar-12
C001	CDB-SMA-0.15	23-May-12
C002	CDB-SMA-0.25	26-Mar-12
C003	CDB-SMA-0.55	30-May-12
C004	CDB-SMA-1	26-Mar-12
C005	CDB-SMA-1.15	30-May-12
C006	CDB-SMA-1.35	30-May-12
C007	CDB-SMA-1.54	30-May-12
C008	CDB-SMA-1.55	23-May-12
C009	CDB-SMA-1.65	23-May-12
C010	CDB-SMA-4	7-Jun-12
M001	M-SMA-1	27-Mar-12
M002	M-SMA-1.2	29-May-12
M002A	M-SMA-1.21	29-May-12
M002B	M-SMA-1.22	27-Mar-12
M003	M-SMA-3	29-May-12

Table 6-3 (continued)

Permitted	SMA	Inspection Date
M004	M-SMA-3.1	29-May-12
M005	M-SMA-3.5	29-May-12
M006	M-SMA-4	27-Mar-12
M007	M-SMA-5	8-Jun-12
M008	M-SMA-6	29-May-12
M009	M-SMA-7	4-Jun-12
M010	M-SMA-7.9	29-May-12
M011	M-SMA-9.1	4-Jun-12
M012	M-SMA-10	4-Jun-12
M012A	M-SMA-10.01	27-Mar-12
M013	M-SMA-10.3	27-Mar-12
M014	M-SMA-11.1	4-Jun-12
M015	M-SMA-12	4-Jun-12
M016	M-SMA-12.5	18-Apr-12
M017	M-SMA-12.6	18-Apr-12
M018	M-SMA-12.7	18-Apr-12
M019	M-SMA-12.8	18-Apr-12
M020	M-SMA-12.9	18-Apr-12
M021	M-SMA-12.92	18-Apr-12
M022	M-SMA-13	18-Jan-12
T001	PRATT-SMA-1.05	7-Jun-12
T002	T-SMA-1	27-Mar-12
T003	T-SMA-2.5	30-May-12
T004	T-SMA-2.85	30-May-12
T005	T-SMA-3	30-May-12
T006	T-SMA-4	30-May-12
T007	T-SMA-5	30-May-12
T008	T-SMA-6.8	30-May-12
T009	T-SMA-7	30-May-12
T010	T-SMA-7.1	30-May-12
E001	2M-SMA-1	27-Mar-12
E002	2M-SMA-1.42	31-May-12
E003	2M-SMA-1.43	31-May-12
E004	2M-SMA-1.44	31-May-12
E005	2M-SMA-1.45	31-May-12
E006	2M-SMA-1.5	31-May-12
E007	2M-SMA-1.65	30-May-12
E008	2M-SMA-1.67	31-May-12
E009	2M-SMA-1.7	27-Mar-12

Table 6-3 (continued)

Permitted	SMA	Inspection Date
E010	2M-SMA-1.8	23-May-12
E011	2M-SMA-1.9	23-May-12
E012	2M-SMA-2	23-May-12
E013	2M-SMA-2.2	27-Mar-12
E014	2M-SMA-3	8-May-12
E015	2M-SMA-2.5	30-Apr-12
H001	3M-SMA-0.2	6-Jun-12
H002	3M-SMA-0.4	6-Jun-12
H003	3M-SMA-0.5	6-Jun-12
H004	3M-SMA-0.6	6-Jun-12
H005	3M-SMA-2.6	21-May-12
H006	3M-SMA-4	21-May-12
J001	PJ-SMA-1.05	19-Apr-12
J002	PJ-SMA-2	8-May-12
J003	PJ-SMA-3.05	8-May-12
J004	PJ-SMA-4.05	8-May-12
J005	PJ-SMA-5	31-May-12
J006	PJ-SMA-5.1	31-May-12
J007	PJ-SMA-6	30-Apr-12
J008	PJ-SMA-7	30-Apr-12
J009	PJ-SMA-8	30-Apr-12
J010	PJ-SMA-9	30-Apr-12
J012	PJ-SMA-10	30-Apr-12
J013	PJ-SMA-11	30-Apr-12
J014	PJ-SMA-11.1	30-Apr-12
J015	PJ-SMA-13	21-May-12
J016	PJ-SMA-13.7	26-Mar-12
J017	PJ-SMA-14	21-May-12
J018	PJ-SMA-14.2	21-May-12
J019	PJ-SMA-14.3	21-May-12
J020	PJ-SMA-14.4	21-May-12
J021	PJ-SMA-14.6	21-May-12
J022	PJ-SMA-14.8	21-May-12
J023	PJ-SMA-16	21-May-12
J024	PJ-SMA-17	7-Jun-12
J026	PJ-SMA-18	7-Jun-12
J025	PJ-SMA-19	7-Jun-12
J027	PJ-SMA-20	7-Jun-12
J028	STRM-SMA-1.05	28-Mar-12

Table 6-3 (continued)

Permitted	SMA	Inspection Date
J029	STRM-SMA-1.5	8-May-12
J030	STRM-SMA-4.2	31-May-12
J031	STRM-SMA-5.05	31-May-12
V001	CDV-SMA-1.2	4-Jun-12
V002	CDV-SMA-1.3	4-Jun-12
V003	CDV-SMA-1.4	5-Jun-12
V004	CDV-SMA-1.45	4-Jun-12
V005	CDV-SMA-1.7	8-Jun-12
V006	CDV-SMA-2	8-Jun-12
V007	CDV-SMA-2.3	5-Jun-12
V008	CDV-SMA-2.41	5-Jun-12
V008A	CDV-SMA-2.42	5-Jun-12
V009	CDV-SMA-2.5	5-Jun-12
V009A	CDV-SMA-2.51	5-Jun-12
V010	CDV-SMA-3	19-Apr-12
V011	CDV-SMA-4	19-Apr-12
V012	CDV-SMA-6.01	19-Apr-12
V012A	CDV-SMA-6.02	19-Apr-12
V013	CDV-SMA-7	6-Jun-12
V014	CDV-SMA-8	6-Jun-12
V015	CDV-SMA-8.5	6-Jun-12
V016	CDV-SMA-9.05	8-Jun-12
F001	F-SMA-2	16-May-12
I001	PT-SMA-0.5	30-Apr-12
I002	PT-SMA-1	30-Apr-12
I003	PT-SMA-1.7	6-Jun-12
I004	PT-SMA-2	25-Apr-12
I004A	PT-SMA-2.01	27-Apr-12
I005	PT-SMA-3	8-Jun-12
I007	PT-SMA-4.2	27-Apr-12
W001	W-SMA-1	28-Mar-12
W002	W-SMA-1.5	7-Jun-12
W003	W-SMA-2.05	6-Jun-12
W004	W-SMA-3.5	6-Jun-12
W005	W-SMA-4.1	6-Jun-12
W006	W-SMA-5	6-Jun-12
W007	W-SMA-6	6-Jun-12
W008	W-SMA-7	6-Jun-12
W009	W-SMA-7.8	6-Jun-12

Table 6-3 (continued)

Permitted	SMA	Inspection Date
W010	W-SMA-7.9	6-Jun-12
W011	W-SMA-8	6-Jun-12
W012	W-SMA-8.7	5-Jun-12
W012A	W-SMA-8.71	28-Mar-12
W013	W-SMA-9.05	5-Jun-12
W014	W-SMA-9.5	8-May-12
W015	W-SMA-9.7	8-May-12
W016	W-SMA-9.8	8-May-12
W017	W-SMA-9.9	15-May-12
W018	W-SMA-10	5-Apr-12
W019	W-SMA-11.7	5-Apr-12
W020	W-SMA-12.05	9-May-12
W021	W-SMA-14.1	28-Mar-12
W022	W-SMA-15.1	28-Mar-12
A001	A-SMA-1.1	27-Apr-12
A002	A-SMA-2	27-Apr-12
A003	A-SMA-2.5	27-Apr-12
A004	A-SMA-2.7	27-Apr-12
A005	A-SMA-2.8	27-Apr-12
A006	A-SMA-3	27-Apr-12
A007	A-SMA-3.5	27-Apr-12
A008	A-SMA-4	29-May-12
A009	A-SMA-6	29-May-12
Q001	CHQ-SMA-0.5	29-May-12
Q002	CHQ-SMA-1.01	29-May-12
Q002A	CHQ-SMA-1.02	29-May-12
Q002B	CHQ-SMA-1.03	29-May-12
Q003	CHQ-SMA-2	29-May-12
Q004	CHQ-SMA-3.05	29-May-12
Q005	CHQ-SMA-4	29-May-12
Q006	CHQ-SMA-4.1	29-May-12
Q007	CHQ-SMA-4.5	29-May-12
Q008	CHQ-SMA-5.05	29-May-12
Q009	CHQ-SMA-6	29-May-12
Q010	CHQ-SMA-7.1	29-May-12

Table 6-4
Summary of Significant Event Inspections

Permitted Feature	SMA	Purpose	Inspection Date	Observations	Maintenance Performed	Maintenance Date
V003	CDV-SMA-1.4	Significant event inspection at CDV-SMA-1.4 following a July 11, 2012, rain event	12-Jul-12	Retire straw wattles 29–54. Retire riprap 55. Retire rock check dams 44 and 56. Repair rock check dams 12, 41–44, 46–47, and 57. Additional control measures need to be implemented following the significant event.	Retired all destroyed controls	7/12/2012
				Retire straw wattles 29–54. Retire riprap 55. Retire rock check dams 44 and 56. Repair rock check dams 12, 41–44, 46–47, and 57. Additional control measures need to be implemented following the significant event.	Retired remaining impacted controls. Installed rock check dams, earth berms, and sediment basin as additional controls.	9/16/2012

Table 6-5
Summary of
Visual Inspections for TAL Exceedances

Permitted	SMA	Inspection Date
R001	R-SMA-0.5	10/1/2012
R003	R-SMA-1.95	3/27/2012
P002	ACID-SMA-2	3/28/2012
P003	ACID-SMA-2.1	9/28/2012
L005	LA-SMA-1.25	12/6/2012
L007	LA-SMA-2.3	3/28/2012
L012A	LA-SMA-5.02	3/27/2012
L015	LA-SMA-5.31	3/26/2012
L016	LA-SMA-5.33	3/28/2012
L014	LA-SMA-5.35	3/28/2012
L019	LA-SMA-5.91	3/26/2012
L030A	LA-SMA-10.12	3/26/2012
D001	DP-SMA-0.3	3/23/2012
S002	S-SMA-1.1	3/26/2012
S005B	S-SMA-3.53	3/26/2012
S006	S-SMA-3.6	3/26/2012
S011	S-SMA-4.1	3/26/2012
S016	S-SMA-6	3/26/2012
C002	CDB-SMA-0.25	3/26/2012
C004	CDB-SMA-1	3/26/2012
V003	CDV-SMA-1.4	10/30/2012
M001	M-SMA-1	3/27/2012
M002B	M-SMA-1.22	3/27/2012
M006	M-SMA-4	3/27/2012
M008	M-SMA-6	12/6/2012
M009	M-SMA-7	10/1/2012
M012A	M-SMA-10.01	3/27/2012
M013	M-SMA-10.3	3/27/2012
T002	T-SMA-1	3/27/2012
T005	T-SMA-3	10/25/2012
E001	2M-SMA-1	3/27/2012
E001	2M-SMA-1	10/25/2012
E009	2M-SMA-1.7	3/27/2012
E011	2M-SMA-1.9	9/28/2012
E013	2M-SMA-2.2	3/27/2012
J005	PJ-SMA-5	12/6/2012

Table 6-5 (continued)

Permitted	SMA	Inspection Date
J016	PJ-SMA-13.7	3/26/2012
J028	STRM-SMA-1.05	3/28/2012
J029	STRM-SMA-1.5	10/1/2012
I001	PT-SMA-0.5	3/23/2012
I002	PT-SMA-1	3/23/2012
I003	PT-SMA-1.7	10/29/2012
W001	W-SMA-1	3/28/2012
W006	W-SMA-5	9/24/2012
W012A	W-SMA-8.71	3/28/2012
W018	W-SMA-10	4/5/2012
W019	W-SMA-11.7	4/5/2012
W021	W-SMA-14.1	3/28/2012
W022	W-SMA-15.1	3/28/2012
Q002B	CHQ-SMA-1.03	9/27/2012
Q003	CHQ-SMA-2	9/27/2012

Table 6-6
Summary of Remediation Construction Activity Inspections

Permitted Feature	SMA	Purpose	Inspection Date	Backup Controls in Place?
L001	LA-SMA-0.85	Enhanced control installation	8/14/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	8/17/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	8/22/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	8/28/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	9/4/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	9/11/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	9/17/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	9/21/2012	Yes
L001	LA-SMA-0.85	Enhanced control installation	9/27/2012	Yes
L003	LA-SMA-1	Enhanced control installation	9/13/2012	Yes
L003	LA-SMA-1	Enhanced control installation	9/20/2012	Yes
L003	LA-SMA-1	Enhanced control installation	9/27/2012	Yes
L003	LA-SMA-1	Enhanced control installation	10/4/2012	Yes
L003	LA-SMA-1	Enhanced control installation	10/11/2012	Yes
L003	LA-SMA-1	Enhanced control installation	10/17/2012	Yes
L003	LA-SMA-1	Enhanced control installation	10/24/2012	Yes
L003	LA-SMA-1	Enhanced control installation	10/29/2012	Yes
L005	LA-SMA-1.25	Enhanced control installation	7/11/2012	Yes
L008	LA-SMA-3.1	Facility construction	2/23/2012	Yes
L009	LA-SMA-3.9	Facility construction	2/23/2012	Yes
L010	LA-SMA-4.1	Enhanced control installation	2/8/2012	Yes
L010	LA-SMA-4.1	Enhanced control installation	2/15/2012	Yes
L012	LA-SMA-5.01	Facility construction	2/29/2012	Yes
L015	LA-SMA-5.31	Enhanced control installation	7/12/2012	Yes
L030A	LA-SMA-10.12	Enhanced control installation	11/7/2012	Yes
L030A	LA-SMA-10.12	Enhanced control installation	11/13/2012	Yes
L030A	LA-SMA-10.12	Enhanced control installation	11/20/2012	Yes
D001	DP-SMA-0.3	Enhanced control installation	10/30/2012	Yes
D007	DP-SMA-3	Enhanced control installation	5/22/2012	Yes
D007	DP-SMA-3	Enhanced control installation	5/29/2012	Yes
D007	DP-SMA-3	Enhanced control installation	6/4/2012	Yes
S002	S-SMA-1.1	Enhanced control installation	10/17/2012	Yes
S002	S-SMA-1.1	Enhanced control installation	10/30/2012	Yes
S002	S-SMA-1.1	Enhanced control installation	10/24/2012	Yes
S002	S-SMA-1.1	Enhanced control installation	11/5/2012	Yes
S002	S-SMA-1.1	Enhanced control installation	11/7/2012	Yes
S005B	S-SMA-3.53	Enhanced control installation	11/15/2012	Yes
S005B	S-SMA-3.53	Enhanced control installation	11/20/2012	Yes

Table 6-6 (continued)

Permitted Feature	SMA	Purpose	Inspection Date	Backup controls in place?
S005B	S-SMA-3.53	Enhanced control installation	11/27/2012	Yes
S005B	S-SMA-3.53	Enhanced control installation	12/4/2012	Yes
S005B	S-SMA-3.53	Enhanced control installation	12/11/2012	Yes
S006	S-SMA-3.6	Enhanced control installation	10/2/2012	Yes
C001	CDB-SMA-0.15	Facility construction	8/10/2012	Yes
C002	CDB-SMA-0.25	Enhanced control installation	4/23/2012	Yes
C004	CDB-SMA-1	Enhanced control installation	6/25/2012	Yes
C004	CDB-SMA-1	Enhanced control installation	7/3/2012	Yes
C004	CDB-SMA-1	Enhanced control installation	6/28/2012	Yes
M001	M-SMA-1	Enhanced control installation	9/27/2012	Yes
M001	M-SMA-1	Enhanced control installation	10/4/2012	Yes
M001	M-SMA-1	Enhanced control installation	9/21/2012	Yes
M002B	M-SMA-1.22	Enhanced control installation	11/16/2012	Yes
M012A	M-SMA-10.01	Enhanced control installation	8/14/2012	Yes
M012A	M-SMA-10.01	Enhanced control installation	8/17/2012	Yes
E001	2M-SMA-1	Enhanced control installation	6/18/2012	Yes
E005	2M-SMA-1.45	Enhanced control installation	6/11/2012	Yes
E005	2M-SMA-1.45	Enhanced control installation	6/8/2012	Yes
E005	2M-SMA-1.45	Enhanced control installation	7/30/2012	Yes
E007	2M-SMA-1.65	Enhanced control installation	4/19/2012	Yes
E009	2M-SMA-1.7	Enhanced control installation	7/9/2012	Yes
E012	2M-SMA-2	Enhanced control installation	10/1/2012	Yes
E012	2M-SMA-2	Enhanced control installation	10/5/2012	Yes
E012	2M-SMA-2	Enhanced control installation	10/10/2012	Yes
J003	PJ-SMA-3.05	Enhanced control installation	6/8/2012	Yes
J006	PJ-SMA-5.1	Enhanced control installation	6/13/2012	Yes
J016	PJ-SMA-13.7	Enhanced control installation	12/11/2012	Yes
V003	CDV-SMA-1.4	Additional control installation after significant event	8/28/2012	Yes
V003	CDV-SMA-1.4	Additional control installation after significant event	9/4/2012	Yes
V003	CDV-SMA-1.4	Additional control installation after significant event	9/6/2012	Yes
V004	CDV-SMA-1.45	Enhanced control installation	6/4/2012	Yes
V008	CDV-SMA-2.41	Enhanced control installation	11/28/2012	Yes
V008	CDV-SMA-2.41	Enhanced control installation	12/5/2012	Yes
V008	CDV-SMA-2.41	Enhanced control installation	12/11/2012	Yes
I001	PT-SMA-0.5	Enhanced control installation	10/4/2012	Yes
I001	PT-SMA-0.5	Enhanced control installation	10/11/2012	Yes
I001	PT-SMA-0.5	Enhanced control installation	10/17/2012	Yes
I002	PT-SMA-1	Enhanced control installation	4/30/2012	Yes
I002	PT-SMA-1	Enhanced control installation	5/7/2012	Yes

Table 6-6 (continued)

Permitted Feature	SMA	Purpose	Inspection Date	Backup controls in place?
I004A	PT-SMA-2.01	Enhanced control installation	4/19/2012	Yes
W001	W-SMA-1	Enhanced control installation	12/21/2012	Yes
W002	W-SMA-1.5	Enhanced control installation	8/2/2012	Yes
W002	W-SMA-1.5	Enhanced control installation	8/9/2012	Yes
W002	W-SMA-1.5	Enhanced control installation	8/15/2012	Yes
W002	W-SMA-1.5	Enhanced control installation	8/20/2012	Yes
W003	W-SMA-2.05	Enhanced control installation	8/20/2012	Yes
W012A	W-SMA-8.71	Enhanced control installation	10/25/2012	Yes
W018	W-SMA-10	Enhanced control installation	7/26/2012	Yes
W019	W-SMA-11.7	Enhanced control installation	9/13/2012	Yes
W019	W-SMA-11.7	Enhanced control installation	9/20/2012	Yes
W021	W-SMA-14.1	Enhanced control installation	7/19/2012	Yes
W022	W-SMA-15.1	Enhanced control installation	9/25/2012	Yes
A004	A-SMA-2.7	Enhanced control installation	5/14/2012	Yes
Q002A	CHQ-SMA-1.02	Enhanced control installation	8/6/2012	Yes
Q002A	CHQ-SMA-1.02	Enhanced control installation	8/9/2012	Yes

Table 6-7
Samples Collected without Measurable Discharge

SMA	Compliance Status Report Comment
LA-SMA-5.52	The sampler was activated for baseline monitoring on 3/26/2012 at 10:13 am. A sample without sufficient volume for all analyses was collected on 8/3/2012. Discharge from the Site was insufficient to generate measurable discharge; however, the sampler remained operational after sample collection. The sampler was shut down for winter on 12/11/2012 at 11:15 am.
M-SMA-12.7	The sampler was activated for baseline monitoring on 4/11/2012 at 12:15 pm. A sample without sufficient volume for all analyses was collected on 10/12/2012. Discharge from the Site was insufficient to generate measureable discharge; however, the sampler remained operational after sample collection. The sampler was shut down for winter on 12/10/2012 at 9:25 am.
PT-SMA-1	The sampler was activated for baseline monitoring on 3/20/2012 at 12:55 pm. The sampler was deactivated for corrective action planning on 5/14/2012 at 3:55 pm. The sample collected on 5/14/2012 (the second sample) had insufficient volume for all analyses. The sampler was activated for enhanced control monitoring on 8/3/2012 at 9:50 am. A sample without sufficient volume for all analyses was collected on 10/12/2012. Discharge from the Site was insufficient to generate measureable discharge; however, the sampler remained operational after sample collection. The sampler was shut down for winter on 12/4/2012 at 1:21 pm.
S-SMA-3.7	The sampler activated for baseline monitoring on 4/10/2012 at 3:00 pm. A sample without sufficient volume for all analyses was collected on 10/12/2012. Discharge from the Site was insufficient to generate measureable discharge; however, the sampler remained operational after sample collection. The sampler was shut down for winter on 12/3/2012 at 1:30 pm.
S-SMA-3.72	The sampler was activated for baseline monitoring on 4/10/2012 at 2:15 pm. A sample without sufficient volume for all analyses was collected on 10/12/2012. Discharge from the Site was insufficient to generate measureable discharge; however, the sampler remained operational after sample collection. The sampler was shut down for winter on 12/3/2012 at 2:10 pm.

Table 6-8
Insufficient Battery Voltage to Operate Sampler

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
LA-SMA-5.01	The sampler was activated for baseline monitoring on 3/21/2012 at 12:21 pm. The battery voltage was inadequate to operate the sampler sometime between inspection on 3/27/2012 and replacement on 4/13/2012 (inoperable up to 17 d). The sampler was shut down for winter on 12/10/2012 at 11:47 am.	None
LA-SMA-6.34	The sampler was activated for baseline monitoring on 4/5/2012 at 10:35 am. The battery voltage was inadequate to operate the sampler sometime between inspection on 4/17/2012 and replacement on 5/09/2012 (inoperable up to 22 d). The sampler was shut down for winter on 12/11/2012 at 12:23 pm.	None

Table 6-9
Malfunctioning Sampler Equipment and Repair

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
2M-SMA-1	The equipment malfunctioned between inspection on 8/28/2012 and repair on 9/12/2012 (inoperable up to 15 d). The tubing was disconnected and was repaired by reconnecting the tubing.	None
2M-SMA-1.67	The equipment malfunctioned between 4/5/2012 and repair on 4/16/2012 (inoperable 11 d). The ISCO head malfunctioned and was repaired by replacing the sampler head.	None
CDV-SMA-1.3	The sampler malfunctioned on 6/6/2012 and was reset on 6/12/2012 (inoperable 6 d). The ISCO head malfunctioned and was repaired by replacing the sampler head.	None
CHQ-SMA-4	The sampler malfunctioned on 4/24/2012 and was repaired on 4/25/2012 (inoperable 1 d). The ISCO actuator and head malfunctioned and was repaired by replacing the actuator, the ISCO head, and the battery.	None
M-SMA-1.21	The equipment malfunctioned between inspection on 6/6/2012 and repair on 6/25/2012 (inoperable up to 19 d). The tubing was disconnected and was repaired by reconnecting the tubing.	None
PJ-SMA-14.3	The equipment malfunctioned between 9/20/2012 and repair on 9/24/2012 (inoperable 4 d). The ISCO head malfunctioned and was repaired by replacing the sampler head.	None
P-SMA-2	The equipment malfunctioned between 6/4/2012 and repair on 6/5/2012 (inoperable 1 d). The ISCO head malfunctioned and was repaired by replacing the sampler head.	None
T-SMA-3	The equipment malfunctioned between 8/6/2012 and repair on 8/21/2012 (inoperable 15 d). The ISCO actuator malfunctioned and was repaired by replacing the actuator.	None
T-SMA-6.8	The equipment malfunctioned between 5/15/2012 and repair on 5/22/2012 (inoperable 7 d). The ISCO head malfunctioned and was repaired by replacing the sampler head.	None

Table 6-10
Incorrectly Configured Sampler Equipment

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
2M-SMA-1.44	The sampler was configured incorrectly from 9/13/12 to 9/24/2012 (inoperable 11 d).	None
CDV-SMA-7	The sampler was configured incorrectly from 8/16/12 to 8/21/2012 (inoperable 5 d).	None
DP-SMA-1	The sampler was configured incorrectly from 4/26/2012 to 5/10/2012 (inoperable 14 d).	None
LA-SMA-5.361	The sampler was configured incorrectly from 4/26/2012 to 5/10/2012 (inoperable 14 d).	None
PJ-SMA-14.3	The sampler was configured incorrectly from 4/16/2012 to 5/9/2012 (inoperable 23 d).	None
P-SMA-1	The sampler was configured incorrectly from 6/26/2012 to 7/9/2012 (inoperable 13 d). The sampler was configured incorrectly between 8/3/2012 to 8/8/2012 (inoperable 5 d).	07/07/2012
PT-SMA-1	The sampler was configured incorrectly from 8/3/2012 to 8/8/2012 (inoperable 5 d).	None
PT-SMA-2.01	The sampler was configured incorrectly from 8/3/2012 to 8/8/2012 (inoperable 5 d).	None
S-SMA-3.7	The sampler was configured incorrectly from 5/14/2012 to 6/11/2012 (inoperable 28 d).	None

Table 6-11
Disturbed Sampler Equipment

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
3M-SMA-0.5	The ISCO and battery box tipped on their sides between inspection on 10/12/2012 and repair on 11/06/2012 (inoperable up to 25 d).	None
CDV-SMA-1.4	The ISCO tipped on its side between inspections on 5/7/2012 and 5/15/2012 (inoperable up to 8 d).	05/13/2012
CDV-SMA-2.5	The battery leads pulled from battery and the sampler intake tubing was disconnected between inspection on 9/12/2012 and repair on 10/2/2012 (inoperable up to 20 d).	09/28/2012
CDV-SMA-7	The ISCO tipped on its side and the battery cable was damaged between inspection on 8/21/2012 and repair on 9/10/2012 (inoperable up to 20 d).	None
CHQ-SMA-7.1	The ISCO tipped on its side between inspection on 9/12/2012 and repair on 10/11/2012 (inoperable up to 29 d).	None
PJ-SMA-2	The ISCO tipped on its side between inspection on 7/27/2012 and repair on 8/21/2012 (inoperable up to 25 d).	08/16/2012
W-SMA-12.05	The ISCO tipped on its side and the battery cable was damaged between inspection on 10/16/2012 and repair on 11/14/2012 (inoperable up to 29 d).	None
W-SMA-4.1	The ISCO tipped on its side between inspection on 8/14/2012 and repair on 9/5/2012 (inoperable up to 22 d).	None
W-SMA-7.9	The ISCO tipped on its side between inspection on 5/7/2012 and repair on 6/5/2012 (inoperable up to 29 d).	None
W-SMA-8.7	The ISCO tipped on its side between inspection on 5/7/2012 and repair on 6/5/2012 (inoperable up to 29 days).	None
W-SMA-8.71	The ISCO tipped on its side and the battery cable was damaged on 3/29/2012 and was repaired on 4/19/2012 (inoperable 21 d).	None
W-SMA-9.05	The ISCO and battery box tipped on their sides between inspection on 5/7/2012 and repair on 6/14/2012 (inoperable up to 39 d).	None

Table 6-12
Inoperable Triggered Sampler Equipment

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
2M-SMA-1.44	The sampler attempted but was unable to collect a sample on 7/4/2012; it was reset on 7/18/2012 (inoperable 14 d). The sampler attempted but was unable to collect a sample on 7/23/2012; it was reset on 8/17/2012 (inoperable 25 d). The sampler attempted but was unable to collect a sample on 8/17/2012; it was reset on 9/6/2012 (inoperable 20 d). The sampler was functioning properly during compliance inspection performed on 9/24/2012 to determine the reason for multiple attempts without sample collection.	07/11/2012
2M-SMA-1.5	The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/14/2012 (inoperable 6 d).	None
CDB-SMA-4	The sampler attempted but was unable to collect a sample on 4/3/2012; it was reset on 4/23/2012 (inoperable 21 d).	None
CDV-SMA-1.45	The sampler attempted but was unable to collect a sample on 7/4/2012; it was reset on 7/19/2012 (inoperable 16 d). The sampler attempted but unable to collect a sample on 7/21/2012; it was reset on 7/24/2012 (inoperable 3 d). The sampler attempted but was unable to collect a sample on 7/24/2012; it was reset on 7/26/2012 (inoperable 2 d). The sampler attempted but was unable to collect a sample on 8/3/2012; it was reset on 8/8/2012 (inoperable 5 d). The sampler attempted but was unable to collect a sample on 8/8/2012; it was reset on 8/20/2012 (inoperable 12 d). The sampler attempted but was unable to collect a sample on 8/20/2012; it was reset on 9/11/2012 (inoperable 22 d). The sampler attempted but was unable to collect a sample on 9/11/2012; it was reset on 9/24/2012 (inoperable 13 d). The sampler attempted but was unable to collect a sample on 9/28/2012; it was reset on 10/12/2012 (inoperable 14 d). The sampler was functioning properly during compliance inspection performed on 9/24/2012 to determine the reason for multiple attempts without sample collection.	07/11/2012 08/16/2012
CHQ-SMA-1.01	The sampler attempted but was unable to collect a sample on 10/23/2012; it was reset on 11/15/2012 (inoperable 23 d).	None
DP-SMA-0.6	The sampler attempted but was unable to collect a sample on 4/26/2012; it was reset on 5/10/2012 (inoperable 14 d).	None
LA-SMA-0.9	The sampler attempted but unable to collect a sample on 10/13/2012; it was reset on 10/19/2012 (inoperable 6 d).	None
LA-SMA-2.1	The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/14/2012 (inoperable 6 d). The sampler attempted but was unable to collect a sample on 6/28/2012; it was reset on 7/31/2012 (inoperable 33 d). The sampler attempted but was unable to collect a sample on 8/2/2012; it was reset on 8/30/2012 (inoperable 28 days). The sampler attempted but was unable to collect a sample on 9/10/12; it was reset on 9/10/12 (inoperable part of 1 d). The sampler was functioning properly during compliance inspection performed 9/28/2012 to determine reason for multiple attempts without sample collection.	None
LA-SMA-5.2	The sampler attempted but was unable to collect a sample on 5/9/12; it was reset on 5/9/12 (inoperable part of 1 d). The sampler attempted but was unable to collect a sample on 5/13/2012; it was reset on 6/13/2012 (inoperable 31 d). The sampler was functioning properly during compliance inspection performed 9/28/2012 to determine reason for multiple attempts without sample collection.	None

Table 6-12 (continued)

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
LA-SMA-5.362	The sampler attempted but was unable to collect a sample on 5/13/2012; it was reset on 6/7/2012 (inoperable 25 d).	None
LA-SMA-5.53	The sampler attempted but was unable to collect a sample on 4/2/2012; it was reset on 4/13/2012 (inoperable 11 d). The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/14/2012 (inoperable 6 d). The sampler was functioning properly during compliance inspection performed 9/24/2012 to determine the reason for multiple attempts without sample collection.	None
LA-SMA-6.3	The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/9/2012 (inoperable 1 d).	None
LA-SMA-6.395	The sampler attempted but was unable to collect a sample on 5/1/2012; it was reset on 5/14/2012 (inoperable 13 d).	None
M-SMA-1.2	The sampler attempted but unable to collect a sample on 8/12/2012; it was reset on 8/15/2012 (inoperable 3 d). The sampler attempted but was unable to collect a sample on 8/16/2012; it was reset on 9/7/2012 (inoperable 22 days). The sampler attempted but unable to collect sample on 9/10/2012; it was reset on 9/12/2012 (inoperable 2 d).	None
M-SMA-12.92	The sampler attempted but was unable to collect a sample on 7/3/2012; it was reset on 7/17/2012 (inoperable 14 d).	07/07/2012
PJ-SMA-1.05	The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/10/2012 (inoperable 2 d). The sampler was functioning properly during compliance inspection performed on 9/24/2012 to determine to determine reason for the lack of sample collection.	None
PJ-SMA-17	The sampler attempted but was unable to collect a sample on 4/11/2012; it was reset on 4/23/2012 (inoperable 12 d).	None
PJ-SMA-3.05	The sampler was deactivated for corrective action planning on 5/14/2012 at 10:56 am. The sampler was activated for enhanced control monitoring on 7/2/2012 at 2:20 pm. The sampler attempted but was unable to collect a sample on 7/11/2012; it was reset on 7/17/2012 (inoperable 6 d). The sampler attempted but was unable to collect a sample on 9/10/2012; it was reset on 10/10/2012 (inoperable 30 d). The sampler attempted but was unable to collect a sample on 10/12/2012; it was reset on 11/2/2012 (inoperable 21 d).	09/28/2012
PJ-SMA-5	The sampler attempted but was unable to collect a sample on 7/4/2012; it was reset on 7/18/2012 (inoperable 14 d). The sampler was functioning properly during compliance inspection performed 9/24/2012 to determine reason for the lack of sample collection.	07/11/2012
PJ-SMA-6	The sampler attempted but was unable to collect a sample on 8/16/2012; it was reset on 8/21/2012 (inoperable 5 d). The sampler attempted but was unable to collect a sample on 8/21/2012; it was reset on 9/11/2012 (inoperable 21 d). The sampler attempted but was unable to collect a sample on 9/12/2012; it was reset on 10/2/2012 (inoperable 20 d). The sampler attempted but was unable to collect a sample on 10/12/2012; it was reset on 10/18/2012 (inoperable 6 d). The sampler attempted but was unable to collect a sample on 10/26/2012; it was reset on 11/13/2012 (inoperable 18 d).	09/10/2012 9/28/2012
P-SMA-2.15	The sampler attempted but was unable to collect a sample on 11/9/2012; it was reset on 11/15/2012 (inoperable 6 d).	None

Table 6-12 (continued)

SMA	Compliance Status Report Comment	Storm Rain Event during Periods of Inoperability
P-SMA-3.05	The sampler attempted but was unable to collect a sample on 4/3/2012; it was reset on 4/3/2012 (inoperable part of 1 d). The sampler attempted but was unable to collect a sample on 4/10/2012; it was reset on 4/12/2012 (inoperable 2 d). The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/14/2012 (inoperable 6 d). The sampler attempted but was unable to collect a sample on 9/26/2012; it was reset on 10/11/2012 (inoperable 15 d). The sampler was functioning properly during compliance inspection performed 10/16/2012 to determine reason for multiple attempts without sample collection.	None
PT-SMA-2.01	The sampler attempted but was unable to collect a sample on 8/22/2012; it was reset on 8/29/2012 (inoperable 7 d). The sampler attempted but was unable to collect a sample on 9/28/2012; it was reset on 10/12/2012 (inoperable 14 d).	None
T-SMA-2.85	The sampler attempted but was unable to collect a sample on 7/4/2012; it was reset on 7/11/2012 (inoperable 7 d). The sampler attempted but was unable to collect a sample on 7/25/2012; it was reset on 8/15/2012 (inoperable 21 d). The sampler attempted but was unable to collect a sample on 10/12/2012; it was reset on 10/16/2012 (inoperable 4 d). The sampler was functioning properly during compliance inspection performed 10/16/2012 to determine reason for multiple attempts without sample collection.	None
T-SMA-4	The sampler attempted but was unable to collect a sample on 5/8/2012; it was reset on 5/16/2012 (inoperable 8 d).	None
W-SMA-5	The sampler attempted but was unable to collect a sample on 6/22/2012; it was reset on 6/29/2012 (inoperable 7 d).	None
W-SMA-9.5	The sampler attempted but was unable to collect a sample on 10/12/2012; it was reset on 11/7/2012 (inoperable 26 days).	None

Table 7-1
Minor Sampler Location Adjustments

SMA	New Station Name
2M-SMA-1.45	2M-SMA-1.45 at SS123220
2M-SMA-2	2M-SMA-2 at SS123221
A-SMA-2.7	A-SMA-2.7 at SS120211
DP-SMA-3	DP-SMA-3 at SS121907
LA-SMA-0.85	LA-SMA-0.85 at SS121043
LA-SMA-1	LA-SMA-1 at SS121044
M-SMA-1	M-SMA-1 at SS121238
M-SMA-10.01	M-SMA-10.01 at SS121235
M-SMA-7.9	M-SMA-7.9 at SS121237
PT-SMA-1	PT-SMA-1 at SS124815
PT-SMA-2.01	PT-SMA-2.01 at SS124816
S-SMA-1.1	S-SMA-1.1 at SS121634
W-SMA-14.1	W-SMA-14.1 at SS123937
W-SMA-8.71	W-SMA-8.71 at SS123938

Table 7-2
Summary of SDPPP Changes Completed from January 1 to December 31, 2012

Description of Type of Change to SDPPP	Number of Changes to SDPPP Volumes for January 1–December 31, 2012, Time Period					
	Volume 1 Los Alamos and Pueblo Watersheds	Volume 2 Sandia and Mortandad Watersheds	Volume 3 Pajarito Watershed	Volume 4 Water and Cañon de Valle Watersheds	Volume 5 Ancho and Chaquehui Watersheds	Total for All SDPPP Volumes
Revisions/Updates to SMA Maps	52	45	34	37	11	179
Add New Control: Augmenting Existing/Baseline Control	5	5	15	7	0	32
Add New Control: Routine/Replacement Control	38	21	8	18	5	90
Retire Control: Damaged and/or Replaced Control	43	32	32	80	14	201
Retire Control: Lifecycle Expired Control	23	14	8	26	8	79
New Control: Corrective Action Control	28	25	33	47	8	141
Edits or Changes to SDPPP Reference Documents	3	3	3	3	3	15
Edits or Changes to Procedure Documents Included in SDPPP	1	0	0	0	0	1
SDPPP Updates to Site Descriptions	9	40	0	19	4	72
Certificate of Completion Issued for SWMU or AOC	3	0	0	0	0	3
Minor Sampler Adjustments, with Updates to Coordinates in Attachment D	3	4	2	4	1	14
SMA Boundary Modifications	5	12	7	5	2	31
Miscellaneous Edit or Correction to SDPPP Text	9	11	14	11	23	68
Total Changes	**222**	**212**	**156**	**257**	**79**	**926**

Table 8-1
Milestones for Significant Compliance Phases for the Individual Permit

Compliance Phase	Permit Section(s)	Description	Milestone
Baseline Control Measures Installation	Part I, Section B.1	The Permittees must install baseline control measures at each Site within 6 mo of the November 1, 2010, effective date of the Permit. Baseline control measures had already been installed and implemented before the effective date of the Permit at 102 Sites assigned to 63 SMAs.	April 30, 2011
	Appendix E	Appendix E, Table E-1, specifies the control measures installed or to be installed at each Site. Table E-2 lists 63 SMAs where baseline control measures have been installed before November 1, 2010.	
Baseline Control Measures Certification	Part I, Section B.1	The Permittees must certify the baseline control measures specified in Appendix E have been installed for all Sites at each SMA. Certification documentation must include a description and photograph of each control measure.	
	Appendix E	The Permittees must certify the baseline control measures completed at 63 SMAs before November 1, 2010 (listed in Table E-2) within 30 d of effective date of Permit.	December 1, 2010
	Appendix E	The Permittees must certify baseline control measures for Sites at the remaining 187 SMAs listed in Table E-1 within 30 d of completion.	May 30, 2011
Baseline Monitoring	Part I, Section D.1	The Permittees shall perform confirmation monitoring following installation of control measures. Initial monitoring requirements following installation and implementation of baseline control measures vary on a site-by-site basis.	
	Part I, Section D.1(a)	For Sites at which baseline control measures were installed and implemented before November 1, 2010, the Permittees shall collect two or more confirmation samples within one (1) year after the effective date of the Permit at associated SMAs.	October 31, 2011
	Part I, Section D.1(b)	For Sites at which baseline control measures were installed and implemented within six (6) months of the effective date of the Permit, the Permittees shall collect two or more confirmation samples within eighteen (18) months after the effective date of the Permit at associated SMAs.	April 30, 2012
Baseline Monitoring Extended	Section E.5(e)	If no confirmation sample could be collected during the applicable period from a measurable storm event, confirmation sampling shall continue until at least one sample is collected, and compliance with applicable TALs for that particular Site or Sites will be determined based on the single result from the first successful confirmation sampling event.	As applicable

Table 8-1 (continued)

Compliance Phase	Permit Section(s)	Description	Milestone
Baseline Confirmation Complete	Part I, Section D.4(b)	If analytical results for all pollutants of concern at a particular SMA are at or below the maximum TALs (MTALs) and the average of all applicable sampling results is at or below the average TALs (ATALs), or the applicable minimum quantitation levels (MQLs), whichever is greater, no further sampling is required for the Site or group of Sites within the associated SMA for the remaining period of the permit.	As applicable
Corrective Action Initiation	Part I, Section E	The Permittees shall initiate corrective action as soon as practicable if, following installation of baseline control measures, initial confirmation monitoring shows TALs are not being met at a particular Site. If confirmation monitoring shows TALs are not being met at a particular Site, the Permittees must take corrective action through installation of measures reasonably expected to (i) meet applicable target action levels at that Site; (ii) achieve total retention of storm water discharges from the Site, (iii) totally eliminate exposure of pollutants to storm water at the Site; or through (iv) demonstrate the Site has achieved RCRA "corrective action complete without controls/corrective action complete with controls" status or a Certificate of Completion under the Consent Order.	See Section 4 of the Annual Report
Enhanced Control Monitoring	Part I, Section E.1(a)	If the selected corrective action entails the design and installation of enhanced control measures, the Permittees shall collect at least two confirmation samples following installation of any enhanced control. If either validated confirmation sample result exceeds applicable TALs, the Permittees shall initiate further measures to achieve completion of corrective action.	As applicable
	Part I, Section E.1(c)	Where applicable, the Permittees shall provide sampling results within 30 d of receipt of analytical results from the first measureable storm event after completion of such measures.	As applicable
	Part I, Section E.1(d)	For "High Priority Sites" [see Part I, Section E.4 (a)], if no confirmation sample could be collected because of a lack of a measurable storm event before the second year of the Permit (October 31, 2012), then the compliance deadlines under Part I, Section E.4, shall be extended for a one- (1-) year period following the first successful confirmation sampling event.	As applicable

Table 8-1 (continued)

Compliance Phase	Permit Section(s)	Description	Milestone
Corrective Action Complete	Part I, Section E.2	The Permittees must certify completion of corrective action within the deadlines established under Part I, Section E.4.	
	Part I, Section E.4(a)	The Permittees must certify completion of corrective action under Part I, Section E.2, for 63 "High Priority Sites" within three (3) years of the effective date of the Permit (or such other time period as may be specified pursuant to Part I, Section E.3, Alternative Compliance, E.4 (c), Force Majeure, or E.5, Additional Sampling Requirements).	October 31, 2013
	Part I, Section E.4(b)	The Permittees must certify completion of corrective action under Part I, Section E.2, for remaining 342 "Moderate Priority Sites" listed in Appendix A within five (5) years of the effective date of the Permit (or such other time period as may be specified pursuant to Part I, Section E.3, Alternative Compliance, E.4 (c), Force Majeure, or E.5, Additional Sampling Requirements).	October 31, 2015
Alternative Compliance	Part I, Section E.3	The Permittees may seek to place a site into Alternative Compliance where the Permittees believe they have installed measures to minimize pollutants in their storm water discharges but are unable to certify Completion of Corrective Action within the deadlines established under Part I, Section E, Completion of Corrective Action, will be accomplished under Alternative Compliance on a case-by-case basis and, as necessary, pursuant to an individually tailored compliance schedule determined by EPA.	As applicable
Deletion of Site	Part I, Section I.2	The Permittees may submit a written request to remove a Site from the Permit if the Permittees can demonstrate that the Site meets on of the following conditions: the Site was never used to manage hazardous waste or the Site has received a Certificate of Completion under the Consent Order and confirmation samples of runoff have demonstrated concentrations no greater than applicable TALs. Once a Site is removed from the Permit, a discharge of contaminated runoff is no longer authorized by the Permit.	As applicable

Table 8-2
Summary of Individual Permit Compliance Status

Compliance Phase	Number of SMAs	Number of Sites*	Milestone	Status as of December 31, 2012
Baseline Control Measures Installation	250	405	April 30, 2011	Baseline control measure installation and implementation were completed on schedule.
Baseline Control Measures Certification	250	405	May 30, 2011	Baseline control measure certification was completed on schedule.
Baseline Monitoring	250	405	October 31, 2011 April 30, 2012	Baseline monitoring ended on the milestone dates.
Baseline Monitoring Extended	166	272	As applicable	Baseline monitoring is extended until one confirmation sample can be collected.
Baseline Confirmation Complete	3	3	October 31, 2013 October 31, 2015	No TAL exceedances were observed at three Moderate Priority SMAs.
Corrective Action Initiated	81	138	As applicable	See Section 4 of the Annual Report for details on the criteria used to determine which SMAs require corrective action.
Enhanced Control Monitoring	42	67	As applicable	Corrective action is being planned at 35 SMAs associated with 65 Sites in 2013.
Corrective Action Complete	2	2	October 13, 2013	Corrective Action has been completed at two High Priority Sites.
	8	10	October 13, 2015	Corrective Action has been completed at 10 Moderate Priority Sites.
Alternative Compliance	0	0	As applicable	Alternative Compliance has not been requested.
Deletion of Site	0	0	As applicable	Deletion of Site from the Permit has not been requested.

* The number of Sites may add up to more than 405 (the number of permitted Sites) of 406 (the number of NMED-recognized Sites) because some Sites are assigned to more than one SMA in different compliance phases.

Table 8-3
Site-Specific Compliance Status

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
R001	R-SMA-0.5	16-Dec-10	03-Aug-12	12-Sep-12	C-00-020	MPS	NMED Certificate of Completion	29-Nov-12	—[a]	11/29/2012
R002	R-SMA-1	16-May-11	19-Aug-11	13-Oct-11	C-00-041	MPS	Enhanced Control	In Planning	—	—
R003	R-SMA-1.95	16-Dec-10	19-Aug-11	01-May-12	00-015	MPS	On-Hold: UXO[b]	In Planning	—	—
R004	R-SMA-2.05	01-Dec-10	In Process	—	00-011(c)	MPS	—	—	—	—
R005	R-SMA-2.3	01-Dec-10	In Process	—	00-011(e)	MPS	—	—	—	—
R006	R-SMA-2.5	16-Dec-10	In Process	—	00-011(a)	MPS	—	—	—	—
B001	B-SMA-0.5	16-Dec-10	In Process	—	10-001(a)	MPS	—	—	—	—
					10-009	MPS	—	—	—	—
					10-008	MPS	—	—	—	—
					10-004(b)	MPS	—	—	—	—
					10-004(a)	MPS	—	—	—	—
					10-001(d)	MPS	—	—	—	—
					10-001(b)	MPS	—	—	—	—
					10-001(c)	MPS	—	—	—	—
B002	B-SMA-1	16-Dec-10	In Process	—	00-011(d)	MPS	—	—	—	—
P001	ACID-SMA-1.05	01-Dec-10	21-Aug-11	<TAL	00-030(g)	MPS	—	—	—	—
P002	ACID-SMA-2	01-Dec-10	19-Aug-11	03-Nov-11	01-002(b)-00	MPS	Enhanced Control	In Planning	—	—
					45-001	MPS	NMED Certificate of Completion Pending	In Planning	—	—
					45-002	MPS	NMED Certificate of Completion Pending	In Planning	—	—
					45-004	MPS	NMED Certificate of Completion Pending	In Planning	—	—
P002A	ACID-SMA-2.01	16-Dec-10	In Process	—	00-030(f)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
P003	ACID-SMA-2.1	01-Dec-10	03-Aug-12	07-Sep-12	01-002(b)-00	MPS	Enhanced Control	In Planning	—	—
P004	P-SMA-0.3	16-Dec-10	In Process	—	00-018(b)	MPS	—	—	—	—
P005	P-SMA-1	01-Dec-10	In Process	—	73-001(a)	HPS	—	—	—	—
P005	P-SMA-1	01-Dec-10	In Process	—	73-004(d)	HPS	—	—	—	—
P006	P-SMA-2	01-Dec-10	In Process	—	73-002	MPS	—	—	—	—
					73-006	MPS	—	—	—	—
P007	P-SMA-2.15	16-Dec-10	In Process	—	31-001	MPS	—	—	—	—
P008	P-SMA-2.2	16-May-11	In Process	—	00-019	HPS	—	—	—	—
P009	P-SMA-3.05	16-Dec-10	In Process	—	00-018(a)	HPS	—	—	—	—
L001	LA-SMA-0.85	01-Dec-10	14-Aug-11	07-Oct-11	03-055(c)	MPS	Enhanced Control	23-Oct-12	In Process	—
L002	LA-SMA-0.9	16-Dec-10	In Process	—	00-017	MPS	—	—	—	—
					C-00-044	MPS	—	—	—	—
L003	LA-SMA-1	16-Dec-10	19-Aug-11	30-Apr-12	00-017	MPS	Enhanced Control	20-Dec-12	In Process	—
					C-00-044	MPS	Enhanced Control	20-Dec-12	In Process	—
L004	LA-SMA-1.1	16-Dec-10	19-Aug-11	11-Oct-11	43-001(b2)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
L005	LA-SMA-1.25	01-Dec-10	28-Aug-11	27-Oct-11	C-43-001	MPS	Enhanced Control	30-Aug-12	15-Nov-12	—
L005	LA-SMA-1.25	01-Dec-10	28-Aug-11	27-Oct-11	C-43-001	MPS	Enhanced Control	In Planning	—	—
L006	LA-SMA-2.1	16-May-11	In Process	—	01-001(f)	HPS	—	—	—	—
L007	LA-SMA-2.3	16-Dec-10	21-Aug-11	01-May-12	01-001(b)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
L008	LA-SMA-3.1	01-Dec-10	In Process	—	01-001(e)	HPS	—	—	—	—
					01-003(a)	HPS	—	—	—	—
L009	LA-SMA-3.9	16-Dec-10	In Process	—	01-001(g)	MPS	—	—	—	—
					01-006(a)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
L010	LA-SMA-4.1	01-Dec-10	04-Sep-11	08-Nov-11	01-003(b)	MPS	Enhanced Control	In Planning	—	—
					01-006(b)	MPS	Enhanced Control	In Planning	—	—
L011	LA-SMA-4.2	01-Dec-10	In Process	—	01-006(c)	MPS	—	—	—	—
					01-006(d)	MPS	—	—	—	—
					01-001(c)	MPS	—	—	—	—
L012	LA-SMA-5.01	16-Dec-10	In Process	—	01-001(d)	HPS	—	—	—	—
L012	LA-SMA-5.01	16-Dec-10	In Process	—	01-006(h)	HPS	—	—	—	—
L012A	LA-SMA-5.02	16-May-11	19-Aug-11	25-Oct-11	01-003(e)	HPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
L013	LA-SMA-5.2	16-May-11	In Process	—	01-003(d)	MPS	—	—	—	—
L015	LA-SMA-5.31	16-Dec-10	19-Aug-11	30-Apr-12	41-002(c)	MPS	Enhanced Control	27-Jul-12	In Process	—
L016	LA-SMA-5.33	16-Dec-10	21-Aug-11	30-Apr-12	32-004	MPS	Enhanced Control	30-Jul-12	In Process	—
L014	LA-SMA-5.35	01-Dec-10	07-Sep-11	27-Oct-11	C-41-004	MPS	Enhanced Control	20-Dec-12	In Process	—
L017	LA-SMA-5.361	28-Apr-11	In Process	—	32-002(b1)	MPS	—	—	—	—
					32-002(b2)	MPS	—	—	—	—
L017A	LA-SMA-5.362	28-Apr-11	In Process	—	32-003	MPS	—	—	—	—
L018	LA-SMA-5.51	28-Apr-11	In Process	—	02-005	HPS	—	—	—	—
					02-006(e)	HPS	—	—	—	—
					02-011(d)	HPS	—	—	—	—
					02-011(c)	HPS	—	—	—	—
					02-011(b)	HPS	—	—	—	—
					02-011(a)	HPS	—	—	—	—
					02-009(b)	HPS	—	—	—	—
					02-008(a)	HPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
L018	LA-SMA-5.51	28-Apr-11	In Process	—	02-006(c)	HPS	—	—	—	—
					02-006(b)	HPS	—	—	—	—
					02-006(d)	HPS	—	—	—	—
					02-004(a)	HPS	—	—	—	—
					02-003(e)	HPS	—	—	—	—
					02-003(a)	HPS	—	—	—	—
L018A	LA-SMA-5.52	28-Apr-11	In Process	—	02-003(b)	HPS	—	—	—	—
					02-007	HPS	—	—	—	—
					02-008(c)	HPS	—	—	—	—
L018B	LA-SMA-5.53	28-Apr-11	In Process	—	02-009(a)	HPS	—	—	—	—
L018C	LA-SMA-5.54	28-Apr-11	In Process	—	02-009(c)	HPS	—	—	—	—
L019	LA-SMA-5.91	01-Dec-10	07-Sep-11	31-Oct-11	21-021	MPS	Enhanced Control	In Planning	—	—
					21-023(c)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					21-009	MPS	Enhanced Control	In Planning	—	—
					21-027(d)	MPS	Enhanced Control	In Planning	—	—
L019A	LA-SMA-5.92	01-Dec-10	In Process	—	21-013(b)	MPS	—	—	—	—
					21-013(g)	MPS	—	—	—	—
					21-018(a)	MPS	—	—	—	—
					21-021	MPS	—	—	—	—
L020	LA-SMA-6.25	01-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-024(d)	MPS	—	—	—	—
					21-027(c)	MPS	—	—	—	—
L021	LA-SMA-6.27	01-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-027(c)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
L022	LA-SMA-6.3	16-Dec-10	In Process	—	21-006(b)	MPS	—	—	—	—
L022A	LA-SMA-6.31	16-Dec-10	In Process	—	21-027(a)	MPS	—	—	—	—
L023	LA-SMA-6.32	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
L024	LA-SMA-6.34	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-022(h)	MPS	—	—	—	—
L025	LA-SMA-6.36	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-024(a)	MPS	—	—	—	—
L026	LA-SMA-6.38	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-024(c)	MPS	—	—	—	—
L027	LA-SMA-6.395	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
L027	LA-SMA-6.395	16-Dec-10	In Process	—	21-024(j)	MPS	—	—	—	—
L028	LA-SMA-6.5	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-024(i)	HPS	—	—	—	—
L029	LA-SMA-9	28-Apr-11	In Process	—	26-001	MPS	—	—	—	—
					26-002(a)	MPS	—	—	—	—
					26-002(b)	MPS	—	—	—	—
					26-003	MPS	—	—	—	—
L030	LA-SMA-10.11	16-Dec-10	In Process	—	53-002(a)	MPS	—	—	—	—
L030A	LA-SMA-10.12	16-May-11	01-Sep-11	01-May-12	53-008	MPS	Enhanced Control	20-Dec-12	In Process	—
D001	DP-SMA-0.3	28-Apr-11	19-Aug-11	01-May-12	21-029	MPS	Enhanced Control	In Planning	—	—
D002	DP-SMA-0.4	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
D003	DP-SMA-0.6	28-Apr-11	In Process	—	21-021	MPS	—	—	—	—
					21-024(l)	MPS	—	—	—	—
D004	DP-SMA-1	16-Dec-10	In Process	—	21-011(k)	MPS	—	—	—	—
					21-021	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
D005	DP-SMA-2	01-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-024(h)	MPS	—	—	—	—
D006	DP-SMA-2.35	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
					21-024(n)	MPS	—	—	—	—
D007	DP-SMA-3	11-Feb-11	29-Jul-11	01-May-12	21-013(c)	MPS	Enhanced Control	30-Aug-12	In Process	—
					21-021	MPS	Enhanced Control	30-Aug-12	In Process	—
D008	DP-SMA-4	16-Dec-10	In Process	—	21-021	MPS	—	—	—	—
S001	S-SMA-0.25	01-Dec-10	15-Aug-11	20-Oct-11	03-052(f)	HPS	Enhanced Control	In Planning	—	—
					03-013(a)	HPS	Enhanced Control	In Planning	—	—
S002	S-SMA-1.1	16-May-11	04-Sep-11	02-Nov-11	03-029	HPS	Enhanced Control	20-Dec-12	In Process	—
S003	S-SMA-2	01-Dec-10	13-Aug-11	20-Oct-11	03-012(b)	HPS	Enhanced Control	In Planning	—	—
					03-045(b)	HPS	Enhanced Control	In Planning	—	—
					03-045(c)	HPS	Enhanced Control	In Planning	—	—
					03-056(c)	HPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
S003A	S-SMA-2.01	16-Dec-10	07-Sep-11	02-Nov-11	03-052(b)	HPS	Enhanced Control	20-Dec-12	In Process	—
S004	S-SMA-2.8	16-Dec-10	In Process	—	03-014(c2)	MPS	—	—	—	—
S005	S-SMA-3.51	16-Dec-10	In Process	—	03-009(i)	HPS	—	—	—	—
S005A	S-SMA-3.52	16-Dec-10	In Process	—	03-021	HPS	—	—	—	—
S005B	S-SMA-3.53	16-Dec-10	04-Aug-11	30-Apr-12	03-014(b2)	HPS	No Exposure	In Planning	—	—
S006	S-SMA-3.6	01-Dec-10	13-Aug-11	20-Oct-11	60-007(b)	HPS	Enhanced Control	20-Dec-12	In Process	—
S007	S-SMA-3.7	16-Dec-10	In Process	—	53-012(e)	MPS	—	—	—	—
S008	S-SMA-3.71	16-Dec-10	In Process	—	53-001(a)	MPS	—	—	—	—
S009	S-SMA-3.72	16-Dec-10	In Process	—	53-001(b)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
S010	S-SMA-3.95	16-May-11	In Process	—	20-002(a)	MPS	—	—	—	—
S011	S-SMA-4.1	16-Dec-10	01-Sep-11	02-Nov-11	53-014	HPS	Enhanced Control	25-Sep-12	In Process	—
S012	S-SMA-4.5	16-May-11	In Process	—	20-002(d)	MPS	—	—	—	—
S013	S-SMA-5	16-May-11	In Process	—	20-002(c)	HPS	—	—	—	—
S014	S-SMA-5.2	16-Dec-10	In Process	—	20-003(c)	MPS	—	—	—	—
S015	S-SMA-5.5	16-May-11	In Process	—	20-005	MPS	—	—	—	—
S016	S-SMA-6	16-May-11	19-Aug-11	02-Nov-11	72-001	HPS	No Exposure/Total Retention	In Planning	—	—
C001	CDB-SMA-0.15	01-Dec-10	In Process	—	04-003(a)	MPS	—	—	—	—
					04-004	MPS	—	—	—	—
C002	CDB-SMA-0.25	01-Dec-10	01-Sep-11	02-Nov-11	46-004(c2)	MPS	Enhanced Control	19-Jul-12	In Process	—
					46-004(e2)	MPS	Enhanced Control	19-Jul-12	In Process	—
C003	CDB-SMA-0.55	12-Jan-11	In Process	—	46-004(g)	MPS	—	—	—	—
					46-004(m)	MPS	—	—	—	—
					46-004(s)	MPS	—	—	—	—
					46-006(f)	MPS	—	—	—	—
C004	CDB-SMA-1	12-Jan-11	07-Sep-11	30-Apr-12	46-004(f)	MPS	Enhanced Control	30-Jul-12	In Process	—
					C-46-001	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					46-009(a)	MPS	Enhanced Control	30-Jul-12	In Process	—
					46-008(g)	MPS	Enhanced Control	30-Jul-12	In Process	—
					46-004(t)	MPS	Enhanced Control	30-Jul-12	In Process	—
					46-004(d2)	MPS	Enhanced Control	30-Jul-12	In Process	—
					46-003(c)	MPS	Enhanced Control	30-Jul-12	In Process	—
					46-004(w)	MPS	Enhanced Control	30-Jul-12	In Process	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
C005	CDB-SMA-1.15	01-Dec-10	In Process	—	46-004(b)	MPS	—	—	—	—
					46-004(y)	MPS	—	—	—	—
					46-004(z)	MPS	—	—	—	—
					46-006(d)	MPS	—	—	—	—
C006	CDB-SMA-1.35	01-Dec-10	In Process	—	46-006(d)	MPS	—	—	—	—
					46-008(f)	MPS	—	—	—	—
					46-004(a2)	MPS	—	—	—	—
					46-004(u)	MPS	—	—	—	—
					46-004(v)	MPS	—	—	—	—
					46-004(x)	MPS	—	—	—	—
C007	CDB-SMA-1.54	01-Dec-10	In Process	—	46-006(d)	MPS	—	—	—	—
					46-004(q)	MPS	—	—	—	—
					46-004(h)	MPS	—	—	—	—
C008	CDB-SMA-1.55	01-Dec-10	In Process	—	46-003(e)	MPS	—	—	—	—
C009	CDB-SMA-1.65	01-Dec-10	In Process	—	46-003(b)	MPS	—	—	—	—
C010	CDB-SMA-4	16-Dec-10	In Process	—	54-018	HPS	—	—	—	—
					54-017	HPS	—	—	—	—
					54-020	HPS	—	—	—	—
M001	M-SMA-1	01-Dec-10	7-Sep-11	02-Nov-11	03-054(e)	MPS	Enhanced Control	20-Dec-12	In Process	—
					03-050(a)	MPS	Enhanced Control	20-Dec-12	In Process	—
M002	M-SMA-1.2	16-Dec-10	In Process	—	03-049(a)	MPS	—	—	—	—
M002A	M-SMA-1.21	16-Dec-10	In Process	—	03-049(e)	MPS	—	—	—	—
M002B	M-SMA-1.22	11-Feb-11	15-Sep-11	01-May-12	03-045(h)	MPS	Enhanced Control	In Planning	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
M003	M-SMA-3	16-May-11	In Process	—	48-001	MPS	—	—	—	—
					48-005	MPS	—	—	—	—
					48-007(c)	MPS	—	—	—	—
M004	M-SMA-3.1	16-Dec-10	In Process	—	48-001	MPS	—	—	—	—
					48-007(b)	MPS	—	—	—	—
M005	M-SMA-3.5	16-May-11	In Process	—	48-001	MPS	—	—	—	—
					48-003	HPS	—	—	—	—
M006	M-SMA-4	01-Dec-10	19-Aug-11	31-Oct-11	48-001	MPS	NMED Certificate of Completion Pending	In Planning	—	—
					48-007(d)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					48-010	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					48-007(a)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					48-005	MPS	Enhanced Control	In Planning	—	—
M007	M-SMA-5	16-May-11	In Process	—	42-001(a)	MPS	—	—	—	—
					42-001(b)	MPS	—	—	—	—
					42-001(c)	MPS	—	—	—	—
					42-002(a)	MPS	—	—	—	—
					42-002(b)	MPS	—	—	—	—
M008	M-SMA-6	16-Dec-10	12-Oct-12	15-Nov-12	35-016(h)	MPS	Enhanced Control	In Planning	—	—
M009	M-SMA-7	16-Dec-10	07-Jul-12	22-Aug-12	35-016(g)	MPS	Enhanced Control	In Planning	—	—
M010	M-SMA-7.9	16-Dec-10	In Process	—	50-006(d)	HPS	—	—	—	—
M011	M-SMA-9.1	11-Feb-11	In Process	—	35-016(f)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
M012	M-SMA-10	16-Dec-10	In Process	—	35-008	MPS	—	—	—	—
					35-014(e)	MPS	—	—	—	—
M012A	M-SMA-10.01	16-Dec-10	15-Sep-11	15-Nov-11	35-016(e)	MPS	Enhanced Control	25-Sep-12	In Process	—
M013	M-SMA-10.3	16-May-11	19-Aug-11	24-Oct-11	35-014(e2)	HPS	NMED Certificate of Completion Pending	In Planning	—	—
					35-016(i)	HPS	NMED Certificate of Completion Pending	In Planning	—	—
M014	M-SMA-11.1	16-Dec-10	In Process	—	35-016(o)	MPS	—	—	—	—
M015	M-SMA-12	28-Apr-11	In Process	—	35-016(p)	MPS	—	—	—	—
M016	M-SMA-12.5	01-Dec-10	In Process	—	05-006(c)	MPS	—	—	—	—
					05-005(b)	MPS	—	—	—	—
M017	M-SMA-12.6	16-May-11	In Process	—	05-004	MPS	—	—	—	—
M018	M-SMA-12.7	16-Dec-10	In Process	—	05-002	MPS	—	—	—	—
					05-005(a)	MPS	—	—	—	—
					05-006(b)	MPS	—	—	—	—
					05-006(e)	MPS	—	—	—	—
M019	M-SMA-12.8	16-Dec-10	In Process	—	05-001(a)	MPS	—	—	—	—
					05-002	MPS	—	—	—	—
M020	M-SMA-12.9	16-Dec-10	In Process	—	05-001(b)	MPS	—	—	—	—
					05-002	MPS	—	—	—	—
M021	M-SMA-12.92	01-Dec-10	In Process	—	00-001	MPS	—	—	—	—
M022	M-SMA-13	16-Dec-10	In Process	—	05-001(c)	MPS	—	—	—	—
T001	Pratt-SMA-1.05	16-Dec-10	In Process	—	35-016(l)	HPS	—	—	—	—
					35-016(m)	HPS	—	—	—	—
					35-016(k)	HPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
T001	Pratt-SMA-1.05	16-Dec-10	In Process	—	35-009(d)	HPS	—	—	—	—
					35-003(r)	HPS	—	—	—	—
					35-003(p)	HPS	—	—	—	—
					35-003(h)	HPS	—	—	—	—
					35-004(h)	HPS	—	—	—	—
T002	T-SMA-1	16-Dec-10	15-Aug-11	21-Oct-11	50-009	HPS	No Exposure/Total Retention	In Planning	—	—
					50-006(a)	HPS	Enhanced Control	In Planning	—	—
T003	T-SMA-2.5	16-Dec-10	In Process	—	35-014(g3)	MPS	—	—	—	—
T004	T-SMA-2.85	16-Dec-10	In Process	—	35-014(g)	MPS	—	—	—	—
					35-016(n)	MPS	—	—	—	—
T005	T-SMA-3	16-Dec-10	10-Sep-12	19-Oct-12	35-016(b)	MPS	Enhanced Control	In Planning	—	—
T006	T-SMA-4	16-Dec-10	In Process	—	35-016(d)	MPS	—	—	—	—
					35-016(c)	MPS	—	—	—	—
					35-004(a)	MPS	—	—	—	—
					35-009(a)	MPS	—	—	—	—
T007	T-SMA-5	16-Dec-10	In Process	—	35-004(a)	MPS	—	—	—	—
					35-009(a)	MPS	—	—	—	—
					35-016(a)	MPS	—	—	—	—
					35-016(q)	MPS	—	—	—	—
T008	T-SMA-6.8	16-Dec-10	In Process	—	35-010(e)	MPS	—	—	—	—
T009	T-SMA-7	16-Dec-10	In Process	—	04-003(b)	MPS	—	—	—	—
T010	T-SMA-7.1	16-Dec-10	In Process	—	04-002	MPS	—	—	—	—
T010	T-SMA-7.1	16-Dec-10	In Process	—	04-001	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
E001	2M-SMA-1	01-Dec-10	20-Aug-11	18-Oct-11	03-010(a)	MPS	Enhanced Control	20-Jul-12	19-Oct-12	—
E001	2M-SMA-1	01-Dec-10	20-Aug-11	18-Oct-11	03-010(a)	MPS	Enhanced Control	In Planning	—	—
E002	2M-SMA-1.42	12-Jan-11	15-Sep-11	10-Nov-11	06-001(a)	MPS	Enhanced Control	27-Jun-12	In Process	—
E003	2M-SMA-1.43	01-Dec-10	In Process	—	22-014(a)	MPS	—	—	—	—
					22-015(a)	MPS	—	—	—	—
E004	2M-SMA-1.44	12-Jan-11	21-Aug-11	30-Apr-12	06-001(b)	MPS	Enhanced Control	27-Jun-12	In Process	—
E005	2M-SMA-1.45	12-Jan-11	07-Sep-11	01-May-12	06-006	MPS	Enhanced Control	20-Aug-12	In Process	—
E006	2M-SMA-1.5	01-Dec-10	In Process	—	22-014(b)	MPS	—	—	—	—
E007	2M-SMA-1.65	12-Jan-11	21-Aug-11	01-May-12	40-005	MPS	Enhanced Control	19-Jul-12	In Process	—
E008	2M-SMA-1.67	28-Apr-11	In Process	—	06-003(h)	MPS	—	—	—	—
E009	2M-SMA-1.7	12-Jan-11	09-Sep-11	03-Nov-11	03-055(a)	MPS	Enhanced Control	27-Jul-12	In Process	—
E010	2M-SMA-1.8	12-Jan-11	09-Sep-11	03-Nov-11	03-001(k)	MPS	Enhanced Control	In Planning	—	—
E011	2M-SMA-1.9	12-Jan-11	11-Jul-12	23-Aug-12	03-003(a)	MPS	Enhanced Control	In Planning	—	—
E012	2M-SMA-2	12-Jan-11	04-Sep-11	03-Nov-11	03-050(d)	MPS	Enhanced Control	In Planning	—	—
					03-054(b)	MPS	Enhanced Control	In Planning	—	—
E013	2M-SMA-2.2	01-Dec-10	04-Sep-11	03-Nov-11	03-003(k)	MPS	Enhanced Control	In Planning	—	—
E014	2M-SMA-3	12-Jan-11	In Process	—	07-001(b)	MPS	—	—	—	—
					07-001(c)	MPS	—	—	—	—
					07-001(a)	MPS	—	—	—	—
					07-001(d)	MPS	—	—	—	—
E015	2M-SMA-2.5	12-Jan-11	09-Sep-12	<TAL	40-001(c)	MPS	—	—	—	—
H001	3M-SMA-0.2	01-Dec-10	In Process	—	15-010(b)	MPS	—	—	—	—
H002	3M-SMA-0.4	12-Jan-11	In Process	—	15-006(b)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
H003	3M-SMA-0.5	12-Jan-11	In Process	—	15-006(c)	MPS	—	—	—	—
					15-009(c)	MPS	—	—	—	—
H004	3M-SMA-0.6	12-Jan-11	In Process	—	15-008(b)	MPS	—	—	—	—
H005	3M-SMA-2.6	28-Apr-11	In Process	—	36-008	MPS	—	—	—	—
					C-36-003	MPS	—	—	—	—
H006	3M-SMA-4	12-Jan-11	In Process	—	18-002(b)	MPS	—	—	—	—
					18-003(c)	MPS	—	—	—	—
					18-010(f)	MPS	—	—	—	—
J001	PJ-SMA-1.05	01-Dec-10	In Process	—	09-013	MPS	—	—	—	—
J002	PJ-SMA-2	01-Dec-10	In Process	—	09-009	MPS	—	—	—	—
J003	PJ-SMA-3.05	11-Feb-11	19-Aug-11	30-Apr-12	09-004(o)	MPS	Enhanced Control	18-Jul-12	In Process	—
J004	PJ-SMA-4.05	01-Dec-10	In Process	—	09-004(g)	MPS	—	—	—	—
J005	PJ-SMA-5	01-Dec-10	12-Oct-12	15-Nov-12	22-015(c)	MPS	Enhanced Control	In Planning	—	—
J006	PJ-SMA-5.1	12-Jan-11	07-Sep-11	31-Oct-11	22-016	MPS	Enhanced Control	18-Jul-12	In Process	—
J007	PJ-SMA-6	01-Dec-10	In Process	—	40-010	MPS	—	—	—	—
J008	PJ-SMA-7	01-Dec-10	In Process	—	40-006(c)	MPS	—	—	—	—
J009	PJ-SMA-8	01-Dec-10	In Process	—	40-006(b)	MPS	—	—	—	—
J010	PJ-SMA-9	01-Dec-10	In Process	—	40-009	MPS	—	—	—	—
J012	PJ-SMA-10	12-Jan-11	In Process	—	40-006(a)	MPS	—	—	—	—
J013	PJ-SMA-11	12-Jan-11	In Process	—	40-003(a)	MPS	—	—	—	—
J014	PJ-SMA-11.1	12-Jan-11	In Process	—	40-003(b)	MPS	—	—	—	—
J015	PJ-SMA-13	28-Apr-11	In Process	—	18-002(a)	MPS	—	—	—	—
J016	PJ-SMA-13.7	12-Jan-11	01-Sep-11	01-May-12	18-010(b)	MPS	Enhanced Control	In Planning	—	—
J017	PJ-SMA-14	28-Apr-11	In Process	—	54-004	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
J018	PJ-SMA-14.2	01-Dec-10	In Process	—	18-012(b)	MPS	—	—	—	—
J019	PJ-SMA-14.3	01-Dec-10	In Process	—	18-003(e)	MPS	—	—	—	—
J020	PJ-SMA-14.4	28-Apr-11	In Process	—	18-010(d)	MPS	—	—	—	—
J021	PJ-SMA-14.6	01-Dec-10	In Process	—	18-010(e)	MPS	—	—	—	—
J022	PJ-SMA-14.8	12-Jan-11	18-Aug-11	<TAL	18-012(a)	MPS	—	—	—	—
J023	PJ-SMA-16	01-Dec-10	In Process	—	27-002	MPS	—	—	—	—
J024	PJ-SMA-17	01-Dec-10	In Process	—	54-018	HPS	—	—	—	—
J026	PJ-SMA-18	01-Dec-10	In Process	—	54-014(d)	MPS	—	—	—	—
					54-017	HPS	Force Majeure	—	—	—
J025	PJ-SMA-19	01-Dec-10	In Process	—	54-013(b)	HPS	—	—	—	—
					54-017	HPS	—	—	—	—
					54-020	HPS	—	—	—	—
J027	PJ-SMA-20	16-Dec-10	29-Jul-11	01-May-12	54-017	HPS	No Exposure—Force Majeure extension requested	In Planning	—	—
J028	STRM-SMA-1.05	01-Dec-10	26-Aug-11	17-Oct-11	08-009(f)	MPS	No Exposure	In Planning	—	—
J029	STRM-SMA-1.5	01-Dec-10	11-Jul-12	27-Aug-12	08-009(d)	MPS	Enhanced Control	In Planning	—	—
J030	STRM-SMA-4.2	01-Dec-10	09-Sep-11	10-Nov-11	09-008(b)	MPS	Enhanced Control	21-Aug-12	In Process	—
J031	STRM-SMA-5.05	01-Dec-10	21-Aug-11	31-Oct-11	09-013	MPS	Enhanced Control	27-Jun-12	In Process	—
V001	CDV-SMA-1.2	12-Jan-11	In Process	—	16-029(k)	MPS	—	—	—	—
					16-017(b)-99	MPS	—	—	—	—
V002	CDV-SMA-1.3	12-Jan-11	In Process	—	16-017(a)-99	MPS	—	—	—	—
					16-026(m)	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
V003	CDV-SMA-1.4	12-Jan-11	10-Sep-12	18-Oct-12	16-030(c)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					16-020	MPS	Enhanced Control	In Planning	—	—
					16-026(l)	MPS	Enhanced Control	In Planning	—	—
					16-028(c)	MPS	Enhanced Control	In Planning	—	—
V004	CDV-SMA-1.45	12-Jan-11	21-Aug-11	30-Apr-12	16-026(i)	MPS	Enhanced Control	18-Jul-12	In Process	—
V005	CDV-SMA-1.7	12-Jan-11	In Process	—	16-019	MPS	—	—	—	—
V006	CDV-SMA-2	16-May-11	In Process	—	16-021(c)	MPS	—	—	—	—
V007	CDV-SMA-2.3	12-Jan-11	In Process	—	16-031(h)	MPS	—	—	—	—
					13-001	MPS	—	—	—	—
					13-002	MPS	—	—	—	—
					16-003(n)	MPS	—	—	—	—
					16-003(o)	MPS	—	—	—	—
					16-029(h)	MPS	—	—	—	—
V008	CDV-SMA-2.41	12-Jan-11	21-Aug-11	01-May-12	16-018	MPS	Enhanced Control	In Planning	—	—
V008A	CDV-SMA-2.42	12-Jan-11	In Process	—	16-010(b)	MPS	—	—	—	—
V009	CDV-SMA-2.5	12-Jan-11	In Process	—	16-010(c)	MPS	—	—	—	—
					16-010(d)	MPS	—	—	—	—
					16-028(a)	MPS	—	—	—	—
V009A	CDV-SMA-2.51	12-Jan-11	In Process	—	16-010(i)	MPS	—	—	—	—
V010	CDV-SMA-3	11-Feb-11	21-Aug-11	30-Apr-12	14-009	MPS	Enhanced Control	18-Jul-12	In Process	—
V011	CDV-SMA-4	11-Feb-11	In Process	—	14-010	MPS	—	—	—	—
V012	CDV-SMA-6.01	11-Feb-11	In Process	—	14-001(g)	MPS	—	—	—	—
					14-006	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
V012A	CDV-SMA-6.02	11-Feb-11	01-Sep-11	31-Oct-11	14-002(e)	MPS	Enhanced Control	18-Jul-12	In Process	—
					14-002(d)	MPS	Enhanced Control	18-Jul-12	In Process	—
V013	CDV-SMA-7	12-Jan-11	In Process	—	15-008(d)	MPS	—	—	—	—
V014	CDV-SMA-8	12-Jan-11	In Process	—	15-011(c)	MPS	—	—	—	—
V015	CDV-SMA-8.5	12-Jan-11	In Process	—	15-014(a)	MPS	—	—	—	—
V016	CDV-SMA-9.05	12-Jan-11	In Process	—	15-007(b)	MPS	—	—	—	—
F001	F-SMA-2	12-Jan-11	15-Aug-11	01-May-12	36-004(c)	MPS	Total Retention	In Planning	—	—
I001	PT-SMA-0.5	28-Apr-11	01-Sep-11	01-May-12	C-15-004	MPS	Enhanced Control	20-Dec-12	In Process	—
					15-009(e)	MPS	Enhanced Control	20-Dec-12	In Process	—
I002	PT-SMA-1	28-Apr-11	01-Sep-11	30-Apr-12	15-004(f)	MPS	Enhanced Control	03-Aug-12	In Process	—
					15-008(a)	MPS	Enhanced Control	03-Aug-12	In Process	—
I003	PT-SMA-1.7	28-Apr-11	10-Sep-12	18-Oct-12	15-006(a)	MPS	Enhanced Control	In Planning	—	—
I004	PT-SMA-2	28-Apr-11	In Process	—	15-008(f)	MPS	—	—	—	—
					36-003(b)	MPS	—	—	—	—
					36-004(e)	MPS	—	—	—	—
I004A	PT-SMA-2.01	28-Apr-11	18-Aug-11	30-Apr-12	C-36-001	MPS	Enhanced Control	03-Aug-12	In Process	—
					C-36-006(e)	MPS	Enhanced Control	03-Aug-12	In Process	—
I005	PT-SMA-3	01-Dec-10	In Process	—	36-004(a)	MPS	—	—	—	—
					36-006	MPS	—	—	—	—
I007	PT-SMA-4.2	01-Dec-10	In Process	—	36-004(d)	MPS	—	—	—	—
W001	W-SMA-1	01-Dec-10	09-Sep-11	08-Nov-11	16-017(j)-99	MPS	Enhanced Control	In Planning	—	—
					16-026(c2)	MPS	Enhanced Control	In Planning	—	—
					16-026(v)	MPS	Enhanced Control	In Planning	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
W002	W-SMA-1.5	12-Jan-11	01-Sep-11	08-Nov-11	16-026(b2)	MPS	Enhanced Control	25-Sep-12	In Process	—
					16-028(d)	MPS	Enhanced Control	25-Sep-12	In Process	—
W003	W-SMA-2.05	12-Jan-11	21-Aug-11	01-May-12	16-028(e)	MPS	Enhanced Control	25-Sep-12	In Process	—
W004	W-SMA-3.5	12-Jan-11	In Process	—	16-026(y)	MPS	—	—	—	—
W005	W-SMA-4.1	12-Jan-11	In Process	—	16-003(a)	MPS	—	—	—	—
W006	W-SMA-5	12-Jan-11	03-Jul-12	18-Sep-12	16-026(b)	MPS	Enhanced Control	In Planning	—	—
					16-001(e)	MPS	Enhanced Control	In Planning	—	—
					16-026(e)	MPS	Enhanced Control	In Planning	—	—
					16-026(c)	MPS	Enhanced Control	In Planning	—	—
					16-003(f)	MPS	Enhanced Control	In Planning	—	—
					16-026(d)	MPS	Enhanced Control	In Planning	—	—
W007	W-SMA-6	12-Jan-11	In Process	—	11-001(c)	MPS	—	—	—	—
W008	W-SMA-7	12-Jan-11	In Process	—	16-026(h2)	MPS	—	—	—	—
W009	W-SMA-7.8	12-Jan-11	In Process	—	16-031(a)	MPS	—	—	—	—
W010	W-SMA-7.9	12-Jan-11	In Process	—	16-006(c)	MPS	—	—	—	—
W011	W-SMA-8	12-Jan-11	In Process	—	16-016(g)	MPS	—	—	—	—
					16-028(b)	MPS	—	—	—	—
W012	W-SMA-8.7	12-Jan-11	In Process	—	16-029(h)	MPS	—	—	—	—
					13-001	MPS	—	—	—	—
					16-035	MPS	—	—	—	—
					13-002	MPS	—	—	—	—
					16-026(j2)	MPS	—	—	—	—
					16-004(a)	MPS	—	—	—	—
W012A	W-SMA-8.71	12-Jan-11	21-Aug-11	01-May-12	16-004(c)	MPS	Enhanced Control	20-Dec-12	In Process	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
W013	W-SMA-9.05	12-Jan-11	In Process	—	16-030(g)	MPS	—	—	—	—
W014	W-SMA-9.5	01-Dec-10	In Process	—	11-012(c)	MPS	—	—	—	—
W015	W-SMA-9.7	12-Jan-11	In Process	—	11-011(a)	MPS	—	—	—	—
					11-011(b)	MPS	—	—	—	—
W016	W-SMA-9.8	12-Jan-11	In Process	—	11-005(c)	MPS	—	—	—	—
W017	W-SMA-9.9	12-Jan-11	21-Aug-11	30-Apr-12	11-006(b)	MPS	Enhanced Control	27-Jun-12	In Process	—
W018	W-SMA-10	12-Jan-11	21-Aug-11	01-May-12	11-005(a)	MPS	Enhanced Control	23-Aug-12	In Process	—
					11-005(b)	MPS	Enhanced Control	23-Aug-12	In Process	—
					11-006(c)	MPS	Enhanced Control	23-Aug-12	In Process	—
					11-006(d)	MPS	Enhanced Control	23-Aug-12	In Process	—
					11-011(d)	MPS	Enhanced Control	23-Aug-12	In Process	—
					11-002	MPS	Enhanced Control	23-Aug-12	In Process	—
					11-003(b)	MPS	Enhanced Control	23-Aug-12	In Process	—
W019	W-SMA-11.7	12-Jan-11	01-Sep-11	01-May-12	49-008(c)	MPS	Enhanced Control	23-Oct-12	In Process	—
W020	W-SMA-12.05	12-Jan-11	In Process	—	49-001(g)	MPS	—	—	—	—
W021	W-SMA-14.1	28-Apr-11	18-Aug-11	17-Oct-11	15-014(l)	MPS	Enhanced Control	25-Sep-12	In Process	—
					15-004(h)	MPS	Enhanced Control	25-Sep-12	In Process	—
W022	W-SMA-15.1	12-Jan-11	01-Sep-11	01-May-12	49-005(a)	MPS	Enhanced Control	23-Oct-12	In Process	—
A001	A-SMA-1.1	01-Dec-10	In Process	—	39-004(a)	MPS	—	—	—	—
					39-004(d)	MPS	—	—	—	—
A002	A-SMA-2	11-Feb-11	In Process	—	39-004(b)	MPS	—	—	—	—
					39-004(e)	MPS	—	—	—	—
A003	A-SMA-2.5	11-Feb-11	In Process	—	39-010	MPS	—	—	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
A004	A-SMA-2.7	11-Feb-11	04-Sep-11	27-Oct-11	39-002(c)	MPS	NMED Certificate of Completion	29-Nov-12	—	11/29/2012
					39-008	MPS	Enhanced Control	23-Aug-12	In Process	—
A005	A-SMA-2.8	11-Feb-11	In Process	—	39-001(b)	MPS	—	—	—	—
A006	A-SMA-3	01-Dec-10	In Process	—	39-002(b)	MPS	—	—	—	—
					39-004(c)	MPS	—	—	—	—
A007	A-SMA-3.5	11-Feb-11	In Process	—	39-006(a)	MPS	—	—	—	—
A008	A-SMA-4	11-Feb-11	In Process	—	33-010(d)	MPS	—	—	—	—
A009	A-SMA-6	11-Feb-11	In Process	—	33-010(a)	MPS	—	—	—	—
					33-004(k)	MPS	—	—	—	—
					33-007(a)	MPS	—	—	—	—
Q001	CHQ-SMA-0.5	11-Feb-11	In Process	—	33-004(g)	MPS	—	—	—	—
					33-007(c)	MPS	—	—	—	—
					33-009	MPS	—	—	—	—
Q002	CHQ-SMA-1.01	11-Feb-11	In Process	—	33-002(d)	MPS	—	—	—	—
Q002A	CHQ-SMA-1.02	11-Feb-11	21-Aug-11	01-May-12	33-004(h)	MPS	Enhanced Control	24-Oct-12	In Process	—
					33-008(c)	MPS	Enhanced Control	24-Oct-12	In Process	—
					33-011(d)	MPS	Enhanced Control	24-Oct-12	In Process	—
					33-015	MPS	Enhanced Control	24-Oct-12	In Process	—
Q002B	CHQ-SMA-1.03	11-Feb-11	04-Jul-12	27-Aug-12	33-017	MPS	Enhanced Control	In Planning	—	—
					C-33-001	MPS	Enhanced Control	In Planning	—	—
					C-33-003	MPS	Enhanced Control	In Planning	—	—
					33-012(a)	MPS	Enhanced Control	In Planning	—	—
					33-008(c)	MPS	Enhanced Control	In Planning	—	—

Table 8-3 (continued)

Permitted Feature	SMA	Certify Baseline Controls	Completion of Baseline Monitoring	Initiation of Corrective Action	Site Number	Priority	Corrective Action Response	Corrective Action Certification	Completion of Enhanced Control Monitoring	Corrective Action Completion
Q003	CHQ-SMA-2	11-Feb-11	04-Jul-12	27-Aug-12	33-004(d)	MPS	Enhanced Control	In Planning	—	—
					33-007(c)	MPS	Enhanced Control	In Planning	—	—
					C-33-003	MPS	Enhanced Control	In Planning	—	—
Q004	CHQ-SMA-3.05	11-Feb-11	In Process	—	33-010(f)	MPS	—	—	—	—
Q005	CHQ-SMA-4	11-Feb-11	In Process	—	33-011(e)	MPS	—	—	—	—
Q006	CHQ-SMA-4.1	11-Feb-11	In Process	—	33-016	MPS	—	—	—	—
Q007	CHQ-SMA-4.5	11-Feb-11	In Process	—	33-011(b)	MPS	—	—	—	—
Q008	CHQ-SMA-5.05	01-Dec-10	In Process	—	33-007(b)	MPS	—	—	—	—
Q009	CHQ-SMA-6	11-Feb-11	In Process	—	33-006(a)	MPS	—	—	—	—
					33-007(b)	MPS	—	—	—	—
					33-010(c)	MPS	—	—	—	—
					33-010(g)	MPS	—	—	—	—
					33-010(h)	MPS	—	—	—	—
					33-014	MPS	—	—	—	—
					33-004(j)	MPS	—	—	—	—
Q010	CHQ-SMA-7.1	11-Feb-11	In Process	—	33-010(g)	MPS	—	—	—	—

[a] — = Corrective action has not been initiated.

[b] UXO = Unexploded ordnance.

Appendix A

Acronyms and Abbreviations,
Glossary, and Metric Conversion Table

A-1.0 ACRONYMS AND ABBREVIATIONS

AOC	area of concern
ATAL	average target action level
BCM	baseline control monitoring
BMP	best management practice
CFR	Code of Federal Regulations
COC	chain of custody
Consent Order	Compliance Order on Consent
DER	duplicate error ratio
DOE	Department of Energy (U.S.)
EC	erosion control
EIM	Environmental Information Management
EISA	Energy Independence and Security Act of 2007
EPA	Environmental Protection Agency (U.S.)
F	filtered
HPS	High Priority Site
Individual Permit	National Pollutant Discharge Elimination System Permit No. NM0030759
LANL	Los Alamos National Laboratory
MDC	minimum detectable concentration
MDL	method detection limit
MPS	Moderate Priority Site
MQL	maximum quantitation limit
MTAL	maximum target action level
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
PCB	polychlorinated biphenyl
Permit	NPDES Permit No. NM0030759
PPT	Pollution Prevention Team
PQL	practical quantitation limit
RCRA	Resource Conservation and Recovery Act
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RER	relative error ratio

ROFF	runoff (control)
RON	run-on (control)
SC	sediment control
SDPPP	Site Discharge Pollution Prevention Plan
SMA	site monitoring area
SSL	soil screening level
SWMU	solid waste management unit
TAL	target action level
UF	unfiltered

A-2.0 GLOSSARY

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 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:

- 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
- Control measures that totally retain and prevent the discharge of storm water have been installed at the Site; or
- Control measures that totally eliminate exposure of pollutants to storm water have been installed at the Site; or
- The Site has achieved RCRA “no further action” status or a Certificate of Completion from NMED.

A-3.0 METRIC CONVERSION TABLE

Multiply SI (Metric) Unit	by	To Obtain U.S. Customary Unit
kilometers (km)	0.622	miles (mi)
kilometers (km)	3281	feet (ft)
meters (m)	3.281	feet (ft)
meters (m)	39.37	inches (in.)
centimeters (cm)	0.03281	feet (ft)
centimeters (cm)	0.394	inches (in.)
millimeters (mm)	0.0394	inches (in.)
micrometers or microns (μm)	0.0000394	inches (in.)
square kilometers (km^2)	0.3861	square miles (mi^2)
hectares (ha)	2.5	acres
square meters (m^2)	10.764	square feet (ft^2)
cubic meters (m^3)	35.31	cubic feet (ft^3)
kilograms (kg)	2.2046	pounds (lb)
grams (g)	0.0353	ounces (oz)
grams per cubic centimeter (g/cm^3)	62.422	pounds per cubic foot (lb/ft^3)
milligrams per kilogram (mg/kg)	1	parts per million (ppm)
micrograms per gram (μg/g)	1	parts per million (ppm)
liters (L)	0.26	gallons (gal.)
milligrams per liter (mg/L)	1	parts per million (ppm)
degrees Celsius (°C)	9/5 + 32	degrees Fahrenheit (°F)

Appendix B

Analytical Monitoring Results

PART I. OVERVIEW

Part I.H.2(c) of the National Pollutant Discharge Elimination System Permit No. NM0030759 (hereafter, the Individual Permit or the Permit) issued to Los Alamos National Laboratory (LANL) requires that the annual report for activities provides monitoring results available during the reporting period. The validated analytical results for the Permit compliance monitoring samples collected by LANL in 2012 are presented in Part I.

The results for metals, general inorganics, radioactivity, total polychlorinated biphenyls (PCBs), semivolatile organic analytes, and high explosives are provided in separate tables in Part II. All analytical results for the Permit storm water monitoring samples are available electronically in the Intellus NM database, available at http://intellusnm.com/.

Sampler Operations

Monitoring was initiated at 240 site monitoring areas (SMAs) by the installation of samplers beginning on March 12, 2012. Sampler equipment is identified by unique station identification numbers. All samplers were deactivated as of December 21, 2012. Samplers were deactivated during the year as sampling requirements were fulfilled. The samplers at the remaining SMAs were deactivated in December because of the arrival of freezing temperatures. The Permit does not allow snowmelt runoff samples to be collected for confirmation purposes.

Section 7 of this annual report describes samplers that were relocated at SMAs during calendar year 2012.

Sample Analysis

Part III.C.5(a) of the Permit states that monitoring must be conducted according to test procedures approved at Title 40 Code of Federal Regulations (CFR) Part 136 unless other test procedures have been specified in the Permit or approved by the U.S. Environmental Protection Agency (EPA) regional administrator. The following considerations apply in planning sample collection and preparing the monitoring data set for reporting.

- To determine the activity of the sum of the radium isotopes Ra-226 + Ra-228, the analytical laboratory measures each isotope separately and then sums the individual results. The result returned by the analytical laboratory is the activity of Ra-226 + Ra-228, expressed as picocuries per liter (pCi/L).
- The State of New Mexico Standards for Interstate and Intrastate Surface Water (New Mexico Administrative Code [NMAC] 20.6.4, effective December 2010) contain numeric criteria for the protection of surface waters that have a designated use of Livestock Watering, including a standard for “Adjusted Gross Alpha,” where

  > **Adjusted gross alpha** means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample, including radium-226, but excluding radon-222 and uranium. Also excluded are source, special nuclear and by-product material as defined by the Atomic Energy Act of 1954 (NMAC 20.6.4.7.B).

- The analytical laboratory measures and reports the gross-alpha radioactivity. The Permittees, Los Alamos National Security, LLC, and the U.S. Department of Energy, have elected not to adjust the reported gross-alpha result for the 2012 baseline confirmation monitoring results.

- The results reported for total PCBs are calculated from the sum of detected PCB congeners measured using EPA Method 1668. Supporting documentation for the calculation of the total PCBs result is provided in Attachment 2 to this Annual Report, as required by Appendix C of the Permit.

Data Analysis

Upon receipt from the analytical laboratory, storm water analytical results undergo automatic data validation by the Environmental Information Management (EIM) database. Data validation is used to determine whether the analytical data results received from the analytical laboratory were generated according to contractual specifications and contain the information necessary to determine if the data are sufficient for decision-making. Analytical data validation procedures are concerned with determining whether individual results should be qualified because of the potential impact of flaws in the data quality on the decision-making process.

Data qualifiers (letter codes attached to data results) are used in the data validation process to designate potential deficiencies associated with individual sample results. The data validation qualifier flags used for reporting the storm water data are defined in Table B-1. Analytical results that have been qualified as rejected (“R” flag) because of serious noncompliance with quality control acceptance criteria are not used for confirmation purposes. Table B-2 provides the data validation summary for the complete Permit compliance data set.

The validated analytical monitoring results from compliance samples are compared with the applicable target action levels (TALs) or with the applicable minimum quantification level (MQL) value, whichever is greater, established in Part I.C of the Permit. The pollutant-specific maximum TAL (MTAL), average TAL (ATAL), and MQL values are listed in Table B-3.

- Individual sample results are compared with the applicable MTAL, if available, or the applicable MQL, whichever is greater.
- For comparison with the ATAL values, the average result from two or more samples may be used. Part II.D of the Permit defines the average as the geometric mean of applicable monitoring results at the SMA.
    - ❖ If all analytical results are below analytical method detect level, a value of zero (0) may be reported. If one or more data are above detect level, a value of one-half of the detect level shall be assigned to those below detect level for calculation purpose.
    - ❖ If the average value of a specific pollutant is below its MQL, a value of zero (0) may be reported for the average.
    - ❖ Further, if a new or an enhanced control measure is installed, the average is calculated based on analytical results from samples taken after the control measure is installed.
- In Part I.C of the Permit, note 1 to the table of pollutant-specific TAL and MQL values states that if an individual analytical test result is smaller than the MQL listed, a value of zero (0) or “ND” (not detected) may be used for reporting and action purpose. Four pollutants do not have a Permit-specified MQL value: Ra-226 + Ra-228, gross alpha, RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine), and 2,4,6-trinitrotoluene. For these four pollutants that do not have a specified MQL value, individual results that are less than the laboratory reporting level are reported as “<.”

Table B-1
Data Qualifier Definitions

Code	Description
Laboratory Data Qualifier Definitions	
*	(Inorganic)–Duplicate Analysis (relative percent difference) not within control limits.
B	(Inorganic)–Reported value was obtained from a reading that was less than the contract-required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL). (Organic)–Analyte present in the blank and the sample.
D	The result for this analyte was reported from a dilution.
E	(Inorganic)–The serial dilution range was exceeded. (Organic)–Analyte exceeded the calibration concentration range.
H	The required extraction or analysis holding time for this result was exceeded.
J	(Inorganic)–The associated numerical value is an estimated quantity. (Organic)–The associated numerical value is an estimated quantity.
N	(Inorganic)–Spiked sample recovery not within control limits.
P	(Organic)–Percent difference between the results on the two columns during the analysis differed by more than 40%.
U	The material was analyzed for but was not detected above the level of the associated numeric value.
UJ	Material was analyzed for but not detected. (Inorganic)–Value is an estimate. (Organic)–Quantitation limit is an estimate.
UN	(Inorganic)–Compound was analyzed for but was not detected, and spiked sample recovery not within control limits.
X	Lab suspects result is a nondetect despite positive quantification results.
LANL Validation Qualifier Definitions	
J	The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual.
J+	The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.
J-	The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.
R	The reported sample result is classified as rejected due to serious noncompliances regarding quality control acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.
U	The analyte is classified as not detected.
UJ	The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.
I	(PCBs)–The calculated sums are considered incomplete due to lack of one or more congener results.

Table B-2
Data Validation Summary

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
2M-SMA-1.9	7/11/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the practical quantitation limit (PQL) but greater than the method detection limit (MDL).	2012-2090	WT_IPPAJ-12-12741	Boron
			EPA:200.8						Aluminum
									Antimony
									Cadmium
									Nickel
		Rad	Calculation	U	R5	Analyte is not detected because the amount reported is less than the minimum detectable concentration (MDC).		WT_IPPAJ-12-12739	Radium-226 and Radium-228
			EPA:900						Gross alpha
			EPA:903.1						Radium-226
			EPA:904						Radium-228
2M-SMA-2.5	9/9/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2317	WT_IPPAJ-12-12737	Boron
									Cobalt
			EPA:200.8						Arsenic
									Chromium
									Nickel
		Rad	Calculation	U	R5	Analyte is not detected because the amount reported is less than the MDC.		WT_IPPAJ-12-12733	Radium-226 and Radium-228
			EPA:900						Gross alpha
			EPA:903.1						Radium-226
			EPA:904						Radium-228
ACID-SMA-2.1	8/3/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL limit but greater than the MDL.	2012-2148	WT_IPLAP-12-13114	Boron
									Cobalt
									Vanadium
			EPA:200.8						Lead
									Nickel

Table B-2 (continued)

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
CDV-SMA-1.4	9/10/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2292	WT_IPWAT-12-12810	Boron
									Cobalt
									Vanadium
									Zinc
			EPA:200.8						Arsenic
CDV-SMA-2.5	10/12/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2013-93	WT_IPW-13-24316	Boron
									Cobalt
									Vanadium
			EPA:200.8						Nickel
			EPA:245.2					WT_IPW-13-24314	Mercury
		Rad	EPA:903.1		R10	Associated duplicate sample has duplicate error ratio (DER) or relative error ratio (RER) greater than the analytical laboratory's acceptance limits.			Radium-226
		Svoa	EPA:625	R	SV3	The surrogate is less than 10%.			Benzo(a)pyrene
									Hexachlorobenzene
									Pentachlorophenol
CHQ-SMA-1.03	7/4/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2065	WT_IPCHA-12-13030	Boron
									Cobalt
									Vanadium
			EPA:200.8						Cadmium
			EPA:245.2					WT_IPCHA-12-13027	Mercury

Table B-2 (continued)

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
CHQ-SMA-2	7/4/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2065	WT_IPCHA-12-13032	Boron
									Cobalt
									Vanadium
									Zinc
			EPA:200.8					WT_IPCHA-12-13031	Selenium
								WT_IPCHA-12-13032	Lead
			EPA:245.2					WT_IPCHA-12-13031	Mercury
LA-SMA-0.85	11/9/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2013-354	WT_IPL-13-24804	Boron
			EPA:200.8						Cobalt
									Antimony
									Chromium
									Lead
		Rad	Calculation	U	R5	Analyte is not detected because the amount reported is less than the MDC.		WT_IPL-13-24804	Radium-226 and Radium-228
			EPA:900	J	R10	Associated duplicate sample has DER or RER greater than the analytical laboratory's acceptance limits.			Gross alpha
LA-SMA-1.1	9/28/2012	Rad	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2013-145	WT_IPLAP-12-21984	Gross alpha

Table B-2 (continued)

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
M-SMA-10.01	10/12/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2013-151	WT_IPMOR-12-23512	Cobalt
									Vanadium
			EPA:200.8						Nickel
M-SMA-6	10/12/2012	Cyanide	ASTM:D2036	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2013-151	WT_IPMOR-12-13210	Cyanide, weak acid dissociable
		Metals	EPA:200.7					WT_IPMOR-12-13174	Cobalt
									Vanadium
			EPA:200.8						Lead
									Nickel
			EPA:245.2					WT_IPMOR-12-13210	Mercury
M-SMA-7	7/7/2012	Metals	EPA:200.7				2012-2068	WT_IPMOR-12-13158	Cobalt
									Vanadium
			EPA:200.8						Lead
									Nickel
PJ-SMA-5	10/12/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2013-135	WT_IPPAJ-12-12769	Boron
									Cobalt
									Zinc
			EPA:200.8						Cadmium
									Chromium
		Rad	Calculation	U	R5	Analyte is not detected because the amount reported is less than the MDC.		WT_IPPAJ-12-12768	Radium-226 and Radium-228
			EPA:900						Gross alpha
			EPA:903.1						Radium-226

Table B-2 (continued)

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
PT-SMA-1.7	9/10/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2298	WT_IPWAT-12-12883	Cobalt
									Vanadium
			EPA:200.8						Nickel
				U	I4	The sample result is ≤5 times the concentration of related analyte in the method blank.			Copper
R-SMA-0.5	8/3/2012	Cyanide	ASTM:D2036	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2168	WT_IPLAP-12-13120	Cyanide, weak acid dissociable
		Hexp	SW-846:8321A_MOD	UJ	HE12a	The laboratory control sample percent recovery was less than the lower acceptance limit but >10%.			Trinitrotoluene[2,4,6-]
		Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.		WT_IPLAP-12-13126	Boron
									Cobalt
									Vanadium
			EPA:200.8						Nickel
			EPA:245.2					WT_IPLAP-12-13120	Mercury

Table B-2 (continued)

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
STRM-SMA-1.5	7/11/2012	Cyanide	ASTM:D2036	J-	I6a	The associated matrix spike recovery was below the lower acceptance limit but greater than 10%.	2012-2069	WT_IPPAJ-12-12770	Cyanide, weak acid dissociable
		Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.		WT_IPPAJ-12-12771	Boron
									Cobalt
									Vanadium
									Zinc
			EPA:200.8						Arsenic
									Nickel
									Silver
			EPA:245.2					WT_IPPAJ-12-12770	Mercury
		Rad	EPA:903.1		R10	Associated duplicate sample has DER or RER greater than the analytical laboratory's acceptance limits.			Radium-226
		Svoa	EPA:625	UJ	SV9	The holding time was >1 and ≤2 times the applicable holding time requirement.			Benzo(a)pyrene
									Hexachlorobenzene
									Pentachlorophenol
T-SMA-3	9/10/2012	Metals	EPA:200.7	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2326	WT_IPMOR-12-13163	Boron
									Cobalt
									Vanadium
			EPA:200.8						Nickel
		Rad	EPA:904	U	R5	Analyte is not detected because the amount reported is less than the MDC.		WT_IPMOR-12-13159	Radium-228

Table B-2 (continued)

SMA	Sample Date	Suite	Method	Val Qual	Val Reason Code	Explanation	Chain of Custody	Sample	Analyte
W-SMA-5	7/3/2012	Metals	EPA:200.8	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.	2012-2067	WT_IPWAT-12-12848	Aluminum
									Chromium
									Nickel
		Rad	Calculation	U	R5	Analyte is not detected because the amount reported is less than the MDC.		WT_IPWAT-12-12846	Radium-226 and Radium-228
			EPA:903.1						Radium-226
			EPA:904						Radium-228

Table B-3
Target Action Levels

Pollutant (Total Unless Indicated)	Chemical Abstracts Service Number	STORET Code[a]	MQL (µg/L)	ATAL (µg/L)	MTAL (µg/L)
Radioactivity					
Adjusted Gross Alpha[b] (pCi/L)	—[c]	80029	—	15	—
Ra-226 and Ra-228 (pCi/L)	—	11503	—	30	—
Metals					
Aluminum, dissolved	7429-90-5	01106	2.5	—	750
Antimony, dissolved	7440-36-0	01095	60	640	—
Arsenic, dissolved	7440-38-2	01000	0.5	9	340
Boron, dissolved	7440-42-8	01020	100	5000	—
Cadmium, dissolved	7440-43-9	01025	1	—	0.6
Chromium, dissolved	7440-47-3	01030	10	—	210
Cobalt, dissolved	7440-48-4	01035	50	1000	—
Copper, dissolved	7440-50-8	01040	0.5	—	4.3
Lead, dissolved	7439-92-1	01049	0.5	—	17
Mercury	7439-97-6	71900	0.005	0.77	1.4
Nickel, dissolved	7440-02-0	01067	0.5	—	170
Selenium	7782-49-2	01147	5	5	20
Silver, dissolved	7440-22-4	01075	0.5	—	0.4
Thallium, dissolved	7440-28-0	01057	0.5	6.3	—
Vanadium, dissolved	7440-62-2	01085	50	100	—
Zinc, dissolved	7440-66-6	01090	20	—	42
Cyanide					
Cyanide, weak acid dissociable	57-12-5	00718	10	5.2	22
Dioxin					
2,3,7,8-TCDD (tetrachlorodibenzo-p-dioxin(2,3,7,8-)	1746-01-6	34675	0.00001	5.1E-08	—
Semivolatile Analytes					
Benzo(a)pyrene	50-32-8	34247	5	0.18	—
Hexachlorobenzene	118-74-1	39700	5	0.0029	—
Pentachlorophenol	87-86-5	39032	5	—	19

Table B-3 (continued)

Pollutant (Total Unless Indicated)	Chemical Abstracts Service Number	STORET Code[a]	MQL (µg/L)	ATAL (µg/L)	MTAL (µg/L)
Pesticides					
4,4'-DDT (dichlorodiphenyltrichloroethane) and derivatives	50-29-3	39300	0.02	0.001	1.1
Aldrin	309-00-2	39330	0.01	0.0005	3
Alpha-Endosulfan	959-98-8	34361	0.01	—	0.22
Beta-Endosulfan	33213-65-9	34356	0.02	—	0.22
Chlordane	57-74-9	39350	0.2	0.0081	2.4
Dieldrin	60-57-1	39380	0.02	0.00054	0.24
Endrin	72-20-8	39390	0.02	—	0.086
Gamma–benzene hexachloride (BHC)	58-89-9	39340	0.05	—	0.95
Heptachlor	76-44-8	39410	0.01	—	0.52
Heptachlor Epoxide	1024-57-3	39420	0.01	—	0.52
Mercury	7439-97-6	71900	0.005	0.77	1.4
Toxaphene	8001-35-2	39400	0.3	—	0.73
PCBs					
PCBs	1336-36-3	39516	—	0.00064	—
High Explosives					
2,4,6-Trinitrotoluene (TNT)	118-96-7	81307	—	20	—
RDX	121-82-4	81364	—	200	—

[a] STORET code is the ID used by the EPA STORET database to identify each chemical constituent.

[b] "Adjusted gross alpha" means the total radioactivity from alpha particle emission as inferred from measurements on a dry sample, including radium-226, but excluding radon-222 and uranium. Also excluded are source, special nuclear, and by-product material as defined by the Atomic Energy Act of 1954 (NMAC 20.6.4.7.B). LANL reports the gross-alpha radiation result returned by the analytical laboratory without adjustment.

[c] — = Not applicable.

Data-Quality Issues

As an outcome of the EIM automatic data validation, analytical results for specific analytes have been rejected ("R" qualifier flag) because of quality control failures. Table B-4 summarizes the sample results that were rejected by LANL data validation. Sample results rejected because of quality-control failures cannot be used to confirm that pollutants of concern are not present at concentrations greater than the applicable TAL values.

Table B-4
Rejected Analytical Results

SMA	Analytical Suite	Analytical Method	Analyte	Sample	Validation Qualifier	Explanation
CDV-SMA-2.5	Semivolatile Organic Analytes	EPA:625	Benzo(a)pyrene	WT_IPW-13-24314	R	The surrogate recovery is less than 10%.
			Hexachlorobenzene			
			Pentachlorophenol			

Compliance samples must be analyzed for the pollutants of concern specified in Appendix B of the Permit. In some instances, analytical results were not returned or were not useable for certain requested pollutants of concern because of errors or failures in quality control at the analytical laboratory. Required pollutants of concern for which results were not received are summarized in Table B-5.

- The semivolatile organic results: hexachlorobenzene, benzo(a)pyrene, and pentachlorophenol for one sample at collected at CDV-SMA-2.5 on October 12, 2012, are not useable because the surrogate recoveries for this sample were less than 10%. It is suspected that the low surrogate recoveries for this sample are from the high ash content of the sample.
- The semivolatile organic results: hexachlorobenzene, benzo(a)pyrene, and pentachlorophenol for one sample at collected at W-SMA-5 on July 3, 2012, are not useable because the extraction holding time was exceeded.
- Cyanide, weak acid dissociable, was requested, but total cyanide was reported and was not detected.

Table B-5
Missing Pollutants of Concern

SMA	Chain of Custody	Sample	Sample Collection Date	Analyte	Comment
CDV-SMA-2.5	2013-93	WT_IPW-13-24314	10/12/2012	Hexachlorobenzene	The results are not usable because the surrogate recovery for this sample was less than 10%.
				Benzo(a)pyrene	
				Pentachlorophenol	
W-SMA-5	2012-2067	WT_IPWAT-12-24846	7/3/2012	Hexachlorobenzene	The results are not useable because the extraction holding time was exceeded.
				Benzo(a)pyrene	
				Pentachlorophenol	
2M-SMA-1.9	2012-2090	WT_IPPAJ-12-12739	7/11/2012	Cyanide—weak acid dissociable	Total cyanide was reported as not detected.

The 40 CFR Part 136 requirements for Clean Water Act compliance samples include maximum holding times between the time of sample collection and the time of sample extraction/analysis. An extraction holding time was missed by 2 d for semivolatile organic analytes for one analytical sample as summarized in Table B-6. No analytical holding times were missed.

The analytical results from samples extracted or analyzed beyond the appropriate holding time may have a low bias and therefore could potentially underreport the concentration present in the sample. Consequently, the results for analytes where holding times were exceeded cannot be used to confirm that pollutants of concern are not present at concentrations greater than the applicable TAL values.

In 2011 and 2012, a process improvement project was undertaken to reduce the duration between sample collection and sample extraction and analysis at the analytical laboratory. This project was designed to improve the sampling process to routinely meet 7-d holding times required for high explosives, semivolatile organic analytes, and pesticide analyses. As a result of improvements made between the 2011 and 2012, the sampling holding time was met in 5 of 6 (83%) samples collected that require a 7-d holding time.

Table B-6
Holding Times

SMA	Suite	Analyte	Chain of Custody	Sample	Sample Date	Prep Date	Extraction Holding Time Days	Required Extraction Holding Time Days	Exceeds (Y/N)
2M-SMA-2.5	Cyanide	Cyanide (wad*)	2012-2317	WT_IPPAJ-12-12733	9/9/2012	09/19/2012	10	14	N
ACID-SMA-2.1	Cyanide	Cyanide (wad)	2012-2148	WT_IPLAP-12-13100	8/3/2012	08/09/2012	6	14	N
CDV-SMA-2.5	Cyanide	Cyanide (wad)	2013-93	WT_IPW-13-24314	10/12/2012	10/23/2012	11	14	N
CHQ-SMA-1.03	Cyanide	Cyanide (wad)	2012-2065	WT_IPCHA-12-13027	7/4/2012	07/13/2012	9	14	N
CHQ-SMA-2	Cyanide	Cyanide (wad)	2012-2065	WT_IPCHA-12-13031	7/4/2012	07/13/2012	9	14	N
LA-SMA-0.85	Cyanide	Cyanide (wad)	2013-354	WT_IPL-13-24803	11/9/2012	11/21/2012	12	14	N
M-SMA-10.01	Cyanide	Cyanide (wad)	2013-151	WT_IPMOR-12-23510	10/12/2012	10/23/2012	11	14	N
M-SMA-6	Cyanide	Cyanide (wad)	2013-151	WT_IPMOR-12-13210	10/12/2012	10/23/2012	11	14	N
M-SMA-7	Cyanide	Cyanide (wad)	2012-2068	WT_IPMOR-12-13156	7/7/2012	07/13/2012	6	14	N
PJ-SMA-5	Cyanide	Cyanide (wad)	2013-135	WT_IPPAJ-12-12768	10/12/2012	10/23/2012	11	14	N
PT-SMA-1.7	Cyanide	Cyanide (wad)	2012-2298	WT_IPWAT-12-12876	9/10/2012	09/19/2012	9	14	N
R-SMA-0.5	Cyanide	Cyanide (wad)	2012-2168	WT_IPLAP-12-13120	8/3/2012	08/13/2012	10	14	N
STRM-SMA-1.5	Cyanide	Cyanide (wad)	2012-2069	WT_IPPAJ-12-12770	7/11/2012	07/16/2012	5	14	N
T-SMA-3	Cyanide	Cyanide (wad)	2012-2326	WT_IPMOR-12-13159	9/10/2012	09/20/2012	10	14	N
W-SMA-5	Cyanide	Cyanide (wad)	2012-2067	WT_IPWAT-12-12846	7/3/2012	07/13/2012	10	14	N
2M-SMA-1.9	Cyanide	Cyanide (total)	2012-2090	WT_IPPAJ-12-12739	7/11/2012	7/24/2012	13	14	N
CDV-SMA-2.5	High Explosives	RDX	2013-93	WT_IPW-13-24314	10/12/2012	10/19/2012	7	7	N
CDV-SMA-2.5	High Explosives	Trinitrotoluene[2,4,6-]	2013-93	WT_IPW-13-24314	10/12/2012	10/19/2012	7	7	N
PT-SMA-1.7	High Explosives	RDX	2012-2298	WT_IPWAT-12-12876	9/10/2012	09/17/2012	7	7	N
PT-SMA-1.7	High Explosives	Trinitrotoluene[2,4,6-]	2012-2298	WT_IPWAT-12-12876	9/10/2012	09/17/2012	7	7	N
R-SMA-0.5	High Explosives	RDX	2012-2168	WT_IPLAP-12-13120	8/3/2012	08/10/2012	7	7	N
R-SMA-0.5	High Explosives	Trinitrotoluene[2,4,6-]	2012-2168	WT_IPLAP-12-13120	8/3/2012	08/10/2012	7	7	N

Table B-6 (continued)

SMA	Suite	Analyte	Chain of Custody	Sample	Sample Date	Prep Date	Extraction Hold Time Days	Required Extraction Hold Time Days	Exceeds (Y/N)
2M-SMA-1.9	Metals	Mercury	2012-2090	WT_IPPAJ-12-12739	7/11/2012	08/06/2012	26	28	N
2M-SMA-2.5	Metals	Mercury	2012-2317	WT_IPPAJ-12-12733	9/9/2012	09/28/2012	19	28	N
ACID-SMA-2.1	Metals	Mercury	2012-2148	WT_IPLAP-12-13100	8/3/2012	08/24/2012	21	28	N
CDV-SMA-1.4	Metals	Mercury	2012-2292	WT_IPWAT-12-12808	9/10/2012	09/28/2012	18	28	N
CDV-SMA-2.5	Metals	Mercury	2013-93	WT_IPW-13-24314	10/12/2012	10/31/2012	19	28	N
CHQ-SMA-1.03	Metals	Mercury	2012-2065	WT_IPCHA-12-13027	7/4/2012	07/25/2012	21	28	N
CHQ-SMA-2	Metals	Mercury	2012-2065	WT_IPCHA-12-13031	7/4/2012	07/25/2012	21	28	N
LA-SMA-0.85	Metals	Mercury	2013-354	WT_IPL-13-24803	11/9/2012	11/21/2012	12	28	N
M-SMA-10.01	Metals	Mercury	2013-151	WT_IPMOR-12-23510	10/12/2012	11/02/2012	21	28	N
M-SMA-6	Metals	Mercury	2013-151	WT_IPMOR-12-13210	10/12/2012	11/02/2012	21	28	N
M-SMA-7	Metals	Mercury	2012-2068	WT_IPMOR-12-13156	7/7/2012	07/27/2012	20	28	N
PJ-SMA-5	Metals	Mercury	2013-135	WT_IPPAJ-12-12768	10/12/2012	11/02/2012	21	28	N
PT-SMA-1.7	Metals	Mercury	2012-2298	WT_IPWAT-12-12876	9/10/2012	09/28/2012	18	28	N
R-SMA-0.5	Metals	Mercury	2012-2168	WT_IPLAP-12-13120	8/3/2012	08/24/2012	21	28	N
STRM-SMA-1.5	Metals	Mercury	2012-2069	WT_IPPAJ-12-12770	7/11/2012	08/07/2012	27	28	N
T-SMA-3	Metals	Mercury	2012-2326	WT_IPMOR-12-13159	9/10/2012	09/28/2012	18	28	N
W-SMA-5	Metals	Mercury	2012-2067	WT_IPWAT-12-12846	7/3/2012	07/25/2012	22	28	N
CDV-SMA-2.5	Semivolatile Organic Analytes	Benzo(a)pyrene	2013-93	WT_IPW-13-24314	10/12/2012	10/19/2012	7	7	N
CDV-SMA-2.5	Semivolatile Organic Analytes	Hexachlorobenzene	2013-93	WT_IPW-13-24314	10/12/2012	10/19/2012	7	7	N
CDV-SMA-2.5	Semivolatile Organic Analytes	Pentachlorophenol	2013-93	WT_IPW-13-24314	10/12/2012	10/19/2012	7	7	N

Table B-6 (continued)

SMA	Suite	Analyte	Chain of Custody	Sample	Sample Date	Prep Date	Extraction Hold Time Days	Required Extraction Hold Time Days	Exceeds (Y/N)
PJ-SMA-5	Semivolatile Organic Analytes	Benzo(a)pyrene	2013-135	WT_IPPAJ-12-12768	10/12/2012	10/19/2012	7	7	N
PJ-SMA-5	Semivolatile Organic Analytes	Hexachlorobenzene	2013-135	WT_IPPAJ-12-12768	10/12/2012	10/19/2012	7	7	N
PJ-SMA-5	Semivolatile Organic Analytes	Pentachlorophenol	2013-135	WT_IPPAJ-12-12768	10/12/2012	10/19/2012	7	7	N
STRM-SMA-1.5	Semivolatile Organic Analytes	Benzo(a)pyrene	2012-2069	WT_IPPAJ-12-12770	7/11/2012	07/18/2012	7	7	N
STRM-SMA-1.5	Semivolatile Organic Analytes	Hexachlorobenzene	2012-2069	WT_IPPAJ-12-12770	7/11/2012	07/18/2012	7	7	N
STRM-SMA-1.5	Semivolatile Organic Analytes	Pentachlorophenol	2012-2069	WT_IPPAJ-12-12770	7/11/2012	07/18/2012	7	7	N
W-SMA-5	Semivolatile Organic Analytes	Benzo(a)pyrene	2012-2067	WT_IPWAT-12-12846	7/3/2012	07/12/2012	9	7	Y
W-SMA-5	Semivolatile Organic Analytes	Hexachlorobenzene	2012-2067	WT_IPWAT-12-12846	7/3/2012	07/12/2012	9	7	Y
W-SMA-5	Semivolatile Organic Analytes	Pentachlorophenol	2012-2067	WT_IPWAT-12-12846	7/3/2012	07/12/2012	9	7	Y

*wad = Weak acid dissociable.

PART II. COMPLIANCE MONITORING RESULTS

Table B-7
Compliance Samples Collected during 2012

Permitted Feature	SMA	Station Number	Stage Initiate Date	Stage Complete Date	Stage Number	Sample	Sample Date	Field Prep	Aluminum (Dissolved)	Copper and Zinc (Dissolved)	Cyanide (wad[a])	Cyanide (total)	Gross Alpha	Hexp[b]	Radium-226/228	Selenium and Mercury (Total)	SVOAs[c]	Dissolved Metals[d]	Total PCBs
E001	2M-SMA-1	SS2432	7/20/12	—[e]	CAM5[f]	WT_IPPAJ-12-22080	7/25/12	F[g]	1	—	—	—	—	—	—	—	—	—	—
E001	2M-SMA-1	SS2432	7/20/12	—	CAM5	WT_IPPAJ-12-22081	9/12/12	F	1	—	—	—	—	—	—	—	—	—	—
E011	2M-SMA-1.9	SS103218	5/1/12	8/22/12	MEx[h]	WT_IPPAJ-12-12739	7/11/12	UF[i]	—	—	—	1	1	—	1	1	—	—	—
E011	2M-SMA-1.9	SS103218	5/1/12	8/22/12	MEx	WT_IPPAJ-12-12741	7/11/12	F	—	—	—	—	—	—	—	—	—	1	—
E015	2M-SMA-2.5	SS093210	5/1/12	10/19/12	MEx	WT_IPPAJ-12-12733	9/9/12	UF	—	—	1	—	1	—	1	1	—	—	—
E015	2M-SMA-2.5	SS093210	5/1/12	10/19/12	MEx	WT_IPPAJ-12-12737	9/9/12	F	—	—	—	—	—	—	—	—	—	1	—
I003	PT-SMA-1.7	SS094813	5/1/12	10/18/12	MEx	WT_IPWAT-12-12876	9/10/12	UF	—	—	1	—	1	1	1	1	—	—	—
I003	PT-SMA-1.7	SS094813	5/1/12	10/18/12	MEx	WT_IPWAT-12-12883	9/10/12	F	—	—	—	—	—	—	—	—	—	1	—
J005	PJ-SMA-5	SS24254	11/1/11	—	MEx	WT_IPPAJ-12-12768	10/12/12	UF	—	—	1	—	1	—	1	1	1	—	—
J005	PJ-SMA-5	SS24254	11/1/11	—	MEx	WT_IPPAJ-12-12769	10/12/12	F	—	—	—	—	—	—	—	—	—	1	—
J029	STRM-SMA-1.5	SS2411	11/1/11	8/26/12	MEx	WT_IPPAJ-12-12770	7/11/12	UF	—	—	1	—	1	—	1	1	1	—	—
J029	STRM-SMA-1.5	SS2411	11/1/11	8/26/12	MEx	WT_IPPAJ-12-12771	7/11/12	F	—	—	—	—	—	—	—	—	—	1	—
L001	LA-SMA-0.85	SS121043	10/23/12	—	CAM5	WT_IPL-13-24803	11/9/12	UF	—	—	1	—	1	—	1	1	—	—	—
L001	LA-SMA-0.85	SS121043	10/23/12	—	CAM5	WT_IPL-13-24804	11/9/12	F	—	—	—	—	—	—	—	—	—	1	—
L004	LA-SMA-1.1	SS081004	10/11/11	—	CAM5	WT_IPLAP-12-21984	9/28/12	UF	—	—	—	—	1	—	—	—	—	—	—
L004	LA-SMA-1.1	SS081004	10/11/11	—	CAM5	WT_IPLAP-12-21986	9/28/12	F	—	1	—	—	—	—	—	—	—	—	—
L005	LA-SMA-1.25	SS091011	8/30/12	—	CAM5	WT_IPLAP-12-22012	9/10/12	F	—	1	—	—	—	—	—	—	—	—	—
L005	LA-SMA-1.25	SS091011	8/30/12	—	CAM5	WT_IPLAP-12-22013	10/12/12	F	—	1	—	—	—	—	—	—	—	—	—
L005	LA-SMA-1.25	SS091011	8/30/12	—	CAM5	WT_IPLAP-12-22012	9/10/12	F	—	1	—	—	—	—	—	—	—	—	—
L005	LA-SMA-1.25	SS091011	8/30/12	—	CAM5	WT_IPLAP-12-22013	10/12/12	F	—	1	—	—	—	—	—	—	—	—	—
M008	M-SMA-6	SS111234	5/1/12	—	MEx	WT_IPMOR-12-13174	10/12/12	F	—	—	—	—	—	—	—	—	—	1	—
M008	M-SMA-6	SS111234	5/1/12	—	MEx	WT_IPMOR-12-13210	10/12/12	UF	—	—	1	—	1	—	1	1	—	—	1
M009	M-SMA-7	SS1992	5/1/12	8/21/12	MEx	WT_IPMOR-12-13156	7/7/12	UF	—	—	1	—	1	—	1	1	—	—	—
M009	M-SMA-7	SS1992	5/1/12	8/21/12	MEx	WT_IPMOR-12-13158	7/7/12	F	—	—	—	—	—	—	—	—	—	1	—
M012A	M-SMA-10.01	SS121235	9/25/12	10/25/12	CAM5	WT_IPMOR-12-23510	10/12/12	UF	—	—	1	—	1	—	1	1	—	—	—
M012A	M-SMA-10.01	SS121235	9/25/12	10/25/12	CAM5	WT_IPMOR-12-23512	10/12/12	F	—	—	—	—	—	—	—	—	—	1	—
P003	ACID-SMA-2.1	SS100104	11/1/11	9/6/12	MEx	WT_IPLAP-12-13100	8/3/12	UF	—	—	1	—	1	—	1	1	—	—	1
P003	ACID-SMA-2.1	SS100104	11/1/11	9/6/12	MEx	WT_IPLAP-12-13114	8/3/12	F	—	—	—	—	—	—	—	—	—	1	—
Q002B	CHQ-SMA-1.03	SS090614	5/1/12	8/26/12	MEx	WT_IPCHA-12-13027	7/4/12	UF	—	—	1	—	1	—	1	1	—	—	1
Q002B	CHQ-SMA-1.03	SS090614	5/1/12	8/26/12	MEx	WT_IPCHA-12-13030	7/4/12	F	—	—	—	—	—	—	—	—	—	1	—

Table B-7 (continued)

Permitted Feature	SMA	Station Number	Stage Initiate Date	Stage Complete Date	Stage Number	Sample	Sample Date	Field Prep	Aluminum (Dissolved)	Copper and Zinc (Dissolved)	Cyanide (wad[a])	Cyanide (total)	Gross Alpha	Hexp[b]	Radium-226/228	Selenium and Mercury (Total)	SVOAs[c]	Dissolved Metals[d]	Total PCBs
Q003	CHQ-SMA-2	SS3374	5/1/12	8/26/12	MEx	WT_IPCHA-12-13031	7/4/12	UF	—	—	1	—	1	—	1	1	—	—	—
Q003	CHQ-SMA-2	SS3374	5/1/12	8/26/12	MEx	WT_IPCHA-12-13032	7/4/12	F	—	—	—	—	—	—	—	—	—	1	—
R001	R-SMA-0.5	SS082701	5/1/12	9/11/12	MEx	WT_IPLAP-12-13120	8/3/12	UF	—	—	1	—	1	1	1	1	—	—	—
R001	R-SMA-0.5	SS082701	5/1/12	9/11/12	MEx	WT_IPLAP-12-13126	8/3/12	F	—	—	—	—	—	—	—	—	—	1	—
T005	T-SMA-3	SS20134	5/1/12	10/19/12	MEx	WT_IPMOR-12-13159	9/10/12	UF	—	—	1	—	1	—	1	1	—	—	—
T005	T-SMA-3	SS20134	5/1/12	10/19/12	MEx	WT_IPMOR-12-13163	9/10/12	F	—	—	—	—	—	—	—	—	—	1	—
V003	CDV-SMA-1.4	SS2542	5/1/12	—	MEx	WT_IPWAT-12-12808	9/10/12	UF	—	—	—	—	1	—	1	1	—	—	—
V003	CDV-SMA-1.4	SS2542	5/1/12	—	MEx	WT_IPWAT-12-12810	9/10/12	F	—	—	—	—	—	—	—	—	—	1	—
V009	CDV-SMA-2.5	SS090420	5/1/12	—	MEx	WT_IPW-13-24314	10/12/12	UF	—	—	1	—	1	1	1	1	1	—	—
V009	CDV-SMA-2.5	SS090420	5/1/12	—	MEx	WT_IPW-13-24316	10/12/12	F	—	—	—	—	—	—	—	—	—	1	—
W006	W-SMA-5	SS2528	5/1/12	9/17/12	MEx	WT_IPWAT-12-12846	7/3/12	UF	—	—	1	—	1	—	1	1	1	—	—
W006	W-SMA-5	SS2528	5/1/12	9/17/12	MEx	WT_IPWAT-12-12848	7/3/12	F	—	—	—	—	—	—	—	—	—	1	—

[a] wad = Weak acid dissociable.

[b] Hexp = High explosives.

[c] SVOAs = Semivolatile organic analytes.

[d] Dissolved Metals = Aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.

[e] — = Not applicable.

[f] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of the effective date of the Permit.

[g] F = Filtered.

[h] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.

[i] UF = Unfiltered.

Table B-8
Results for Metals

Permitted Feature	SMA	Station Number	Stage Initiate Date	Stage Complete Date	Stage Number	COC[a]	Sample	Sample Date	Field Prep	Aluminum EPA:200.8 (µg/L)	Antimony EPA:200.8 (µg/L)	Arsenic EPA:200.8 (µg/L)	Boron EPA:200.7 (µg/L)	Cadmium EPA:200.8 (µg/L)	Calcium EPA:200.7 (mg/L)	Chromium EPA:200.8 (µg/L)	Cobalt EPA:200.7 (µg/L)	Copper EPA:200.8 (µg/L)	Lead EPA:200.8 (µg/L)	Magnesium EPA:200.7 (mg/L)	Mercury EPA:245.2 (µg/L)	Nickel EPA:200.8 (µg/L)	Selenium EPA:200.8 (µg/L)	Silver EPA:200.8 (µg/L)	Thallium EPA:200.8 (µg/L)	Vanadium EPA:200.7 (µg/L)	Zinc EPA:200.7 (µg/L)	Zinc EPA:200.8 (µg/L)
E001	2M-SMA-1	SS2432	7/20/2012	—[b]	CAM5[c]	2012-2229	WT_IPPAJ-12-22080	7/25/2012	F[d]	222	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
E001	2M-SMA-1	SS2432	7/20/2012	—	CAM5	2012-2317	WT_IPPAJ-12-22081	9/12/2012	F	1430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
E011	2M-SMA-1.9	SS103218	5/1/2012	8/22/12	MEx[e]	2012-2090	WT_IPPAJ-12-12739	7/11/2012	UF[f]	—	—	—	—	—	—	—	—	—	—	—	<0.2[g]	—	<5	—	—	—	—	—
E011	2M-SMA-1.9	SS103218	5/1/2012	8/22/12	MEx	2012-2090	WT_IPPAJ-12-12741	7/11/2012	F	30.7	1.78	<5	16.8	0.815	2.35	<10	<5	24.9	<2	0.39	—	1.38	—	<1	<2	<5	314	—
E015	2M-SMA-2.5	SS093210	5/1/2012	10/19/12	MEx	2012-2317	WT_IPPAJ-12-12733	9/9/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
E015	2M-SMA-2.5	SS093210	5/1/2012	10/19/12	MEx	2012-2317	WT_IPPAJ-12-12737	9/9/2012	F	<15	<1	2.34	20.5	<0.11	12.7	3.6	1.32	1.83	<0.5	3.91	—	0.532	—	<0.2	<0.45	6.59	11.7	—
P003	ACID-SMA-2.1	SS100104	11/1/2011	9/6/12	MEx	2012-2148	WT_IPLAP-12-13100	8/3/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
P003	ACID-SMA-2.1	SS100104	11/1/2011	9/6/12	MEx	2012-2148	WT_IPLAP-12-13114	8/3/2012	F	428	<1	<1.7	21.6	<0.11	9.64	<2	2.11	3.12	0.632	1.43	—	1.77	—	<0.2	<0.45	2	15.2	—
V003	CDV-SMA-1.4	SS2542	5/1/2012	—	MEx	2012-2292	WT_IPWAT-12-12808	9/10/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
V003	CDV-SMA-1.4	SS2542	5/1/2012	—	MEx	2012-2292	WT_IPWAT-12-12810	9/10/2012	F	110	<1	2.48	46.3	<0.11	13.9	<2	3.46	3.72	<0.5	1.6	—	2.42	—	7.86	<0.45	2.2	5.7	—
V009	CDV-SMA-2.5	SS090420	5/1/2012	—	MEx	2013-93	WT_IPW-13-24314	10/12/2012	UF	—	—	—	—	—	—	—	—	—	—	—	0.103	—	<1.5	—	—	—	—	—
V009	CDV-SMA-2.5	SS090420	5/1/2012	—	MEx	2013-93	WT_IPW-13-24316	10/12/2012	F	534	<1	<1.7	17.4	<0.11	2.96	<2	1.94	2.15	<0.5	0.769	—	1.04	—	<0.2	<0.45	2.33	18.6	—
Q002B	CHQ-SMA-1.03	SS090614	5/1/2012	8/26/12	MEx	2012-2065	WT_IPCHA-12-13027	7/4/2012	UF	—	—	—	—	—	—	—	—	—	—	—	0.084	—	<1.5	—	—	—	—	—
Q002B	CHQ-SMA-1.03	SS090614	5/1/2012	8/26/12	MEx	2012-2065	WT_IPCHA-12-13030	7/4/2012	F	440	<1	<1.7	47.6	0.147	9.32	<2	2.06	14.4	<0.5	1.43	—	2.06	—	<0.2	<0.45	3.93	10.3	—
Q003	CHQ-SMA-2	SS3374	5/1/2012	8/26/12	MEx	2012-2065	WT_IPCHA-12-13031	7/4/2012	UF	—	—	—	—	—	—	—	—	—	—	—	0.174	—	2.44	—	—	—	—	—
Q003	CHQ-SMA-2	SS3374	5/1/2012	8/26/12	MEx	2012-2065	WT_IPCHA-12-13032	7/4/2012	F	967	<1	<1.7	20.3	<0.11	11.3	<2	3.69	6.75	0.777	1.89	—	2.48	—	<0.2	<0.45	2.83	5.71	—
L001	LA-SMA-0.85	SS121043	10/23/2012	—	CAM5	2013-354	WT_IPL-13-24803	11/9/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
L001	LA-SMA-0.85	SS121043	10/23/2012	—	CAM5	2013-354	WT_IPL-13-24804	11/9/2012	F	462	1.28	<1.7	28.4	<.11	15.3	3.04	1.73	26.4	1.48	2.12	—	3.44	—	<0.2	0.45	6.4	56.1	—
L004	LA-SMA-1.1	SS081004	10/11/2011	—	CAM5	2013-145	WT_IPLAP-12-21986	9/28/2012	F	—	—	—	—	—	—	—	—	17.7	—	—	—	—	—	—	—	—	—	131
L005	LA-SMA-1.25	SS091011	8/30/2012	—	CAM5	2012-2318	WT_IPLAP-12-22012	9/10/2012	F	—	—	—	—	—	—	—	—	25	—	—	—	—	—	—	—	—	—	111
L005	LA-SMA-1.25	SS091011	8/30/2012	—	CAM5	2013-145	WT_IPLAP-12-22013	10/12/2012	F	—	—	—	—	—	—	—	—	7.31	—	—	—	—	—	—	—	—	—	53.2
M012A	M-SMA-10.01	SS121235	9/25/2012	10/25/12	CAM5	2013-151	WT_IPMOR-12-23510	10/12/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
M012A	M-SMA-10.01	SS121235	9/25/2012	10/25/12	CAM5	2013-151	WT_IPMOR-12-23512	10/12/2012	F	121	<1	<1.7	<15	<0.11	28.7	<2	2.48	2.35	<0.5	2.95	—	1.69	—	<0.2	<0.45	2.49	<3.3	—
M008	M-SMA-6	SS111234	5/1/2012	—	MEx	2013-151	WT_IPMOR-12-13174	10/12/2012	F	628	<1	<1.7	<15	<0.11	7.01	<2	2.91	13	0.715	0.99	—	1.92	—	<0.2	<0.45	2.07	24.8	—
M008	M-SMA-6	SS111234	5/1/2012	—	MEx	2013-151	WT_IPMOR-12-13210	10/12/2012	UF	—	—	—	—	—	—	—	—	—	—	—	0.131	—	<1.5	—	—	—	—	—
M009	M-SMA-7	SS1992	5/1/2012	8/21/12	MEx	2012-2068	WT_IPMOR-12-13156	7/7/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.2	—	<5	—	—	—	—	—
M009	M-SMA-7	SS1992	5/1/2012	8/21/12	MEx	2012-2068	WT_IPMOR-12-13158	7/7/2012	F	530	4.84	<5	<50	<1	3.93	<10	2.15	2.51	0.525	0.925	—	1.07	—	<1	<2	3.53	60.6	—
J005	PJ-SMA-5	SS24254	11/1/2011	—	MEx	2013-135	WT_IPPAJ-12-12768	10/12/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
J005	PJ-SMA-5	SS24254	11/1/2011	—	MEx	2013-135	WT_IPPAJ-12-12769	10/12/2012	F	225	<1	<1.7	17.8	0.426	1.68	2.37	1.65	75.5	<0.5	0.401	—	18	—	<0.2	<0.45	<1	6.97	—
I003	PT-SMA-1.7	SS094813	5/1/2012	10/18/12	MEx	2012-2298	WT_IPWAT-12-12876	9/10/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
I003	PT-SMA-1.7	SS094813	5/1/2012	10/18/12	MEx	2012-2298	WT_IPWAT-12-12883	9/10/2012	F	501	<1	<1.7	<15	<0.11	3.13	<2	2.03	<2.09	<0.5	0.67	—	1.34	—	<0.2	<0.45	2.34	<3.3	—
R001	R-SMA-0.5	SS082701	5/1/2012	9/11/12	MEx	2012-2168	WT_IPLAP-12-13120	8/3/2012	UF	—	—	—	—	—	—	—	—	—	—	—	0.171	—	<1.5	—	—	—	—	—

Table B-8 (continued)

Permitted Feature	SMA	Station Number	Stage Initiate Date	Stage Complete Date	Stage Number	COC[a]	Sample	Sample Date	Field Prep	Aluminum EPA:200.8 (µg/L)	Antimony EPA:200.8 (µg/L)	Arsenic EPA:200.8 (µg/L)	Boron EPA:200.7 (µg/L)	Cadmium EPA:200.8 (µg/L)	Calcium EPA:200.7 (mg/L)	Chromium EPA:200.8 (µg/L)	Cobalt EPA:200.7 (µg/L)	Copper EPA:200.8 (µg/L)	Lead EPA:200.8 (µg/L)	Magnesium EPA:200.7 (mg/L)	Mercury EPA:245.2 (µg/L)	Nickel EPA:200.8 (µg/L)	Selenium EPA:200.8 (µg/L)	Silver EPA:200.8 (µg/L)	Thallium EPA:200.8 (µg/L)	Vanadium EPA:200.7 (µg/L)	Zinc EPA:200.7 (µg/L)	Zinc EPA:200.8 (µg/L)
R001	R-SMA-0.5	SS082701	5/1/2012	9/11/12	MEx	2012-2168	WT_IPLAP-12-13126	8/3/2012	F	287	<1	<1.7	17.4	<0.11	3.66	<2	2.66	1.12	<0.5	0.729	—	0.755	—	<0.2	<0.45	1.15	<3.3	—
J029	STRM-SMA-1.5	SS2411	11/1/2011	8/26/12	MEx	2012-2069	WT_IPPAJ-12-12770	7/11/2012	UF	—	—	—	—	—	—	—	—	—	—	—	1.17	—	<7.5	—	—	—	—	—
J029	STRM-SMA-1.5	SS2411	11/1/2011	8/26/12	MEx	2012-2069	WT_IPPAJ-12-12771	7/11/2012	F	461	<1	3.43	28.7	1.26	25.7	<2	2.35	2.63	<0.5	3.65	—	1.93	—	0.589	<0.45	1.65	4.15	—
T005	T-SMA-3	SS20134	5/1/2012	10/19/12	MEx	2012-2326	WT_IPMOR-12-13159	9/10/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
T005	T-SMA-3	SS20134	5/1/2012	10/19/12	MEx	2012-2326	WT_IPMOR-12-13163	9/10/2012	F	273	3.09	<1.7	20.9	<0.11	6.62	<2	2.33	13.4	<0.5	1.15	—	1.78	—	<0.2	<0.45	3.07	11.1	—
W006	W-SMA-5	SS2528	5/1/2012	9/17/12	MEx	2012-2067	WT_IPWAT-12-12846	7/3/2012	UF	—	—	—	—	—	—	—	—	—	—	—	<0.067	—	<1.5	—	—	—	—	—
W006	W-SMA-5	SS2528	5/1/2012	9/17/12	MEx	2012-2067	WT_IPWAT-12-12848	7/3/2012	F	21.5	<1	<1.7	111	<0.11	13.5	2.95	<1	6.28	<0.5	3.61	—	0.533	—	<0.2	<0.45	11.9	21.7	—

[a] COC = Chain of custody.

[b] — = Not applicable.

[c] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of the effective date of the Permit.

[d] F = Filtered.

[e] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.

[f] UF = Unfiltered.

[g] < = The analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table B-9
Results for General Inorganics

Permitted Feature	SMA	Station Name	Stage Initiate Date	Stage Complete Date	Stage Number	COC[a]	Sample	Sample Date	F[b]/UF[c]	CN(wad) SM4500 (mg/L)	CN(total) SM4500 (mg/L)	Val Qual
E015	2M-SMA-2.5	SS093210	5/1/12	10/19/12	MEx[d]	2012-2317	WT_IPPAJ-12-12733	9/9/12	UF	<0.00167[e]	—[f]	U
I003	PT-SMA-1.7	SS094813	5/1/12	10/18/12	MEx	2012-2298	WT_IPWAT-12-12876	9/10/12	UF	<0.00167	—	U
J005	PJ-SMA-5	SS24254	11/1/11	—	MEx	2013-135	WT_IPPAJ-12-12768	10/12/12	UF	<0.00167	—	U
J029	STRM-SMA-1.5	SS2411	11/1/11	8/26/12	MEx	2012-2069	WT_IPPAJ-12-12770	7/11/12	UF	0.0276	—	J-
L001	LA-SMA-0.85	SS121043	10/23/12	—	CAM5[g]	2013-354	WT_IPL-13-24803	11/9/12	UF	<0.00167	—	U
M008	M-SMA-6	SS111234	5/1/12	—	MEx	2013-151	WT_IPMOR-12-13210	10/12/12	UF	0.00221	—	J
M009	M-SMA-7	SS1992	5/1/12	8/21/12	MEx	2012-2068	WT_IPMOR-12-13156	7/7/12	UF	<0.005	—	U
M012A	M-SMA-10.01	SS121235	9/25/12	10/25/12	CAM5	2013-151	WT_IPMOR-12-23510	10/12/12	UF	<0.00167	—	U
P003	ACID-SMA-2.1	SS100104	11/1/11	9/6/12	MEx	2012-2148	WT_IPLAP-12-13100	8/3/12	UF	<0.00167	—	U
Q002B	CHQ-SMA-1.03	SS090614	5/1/12	8/26/12	MEx	2012-2065	WT_IPCHA-12-13027	7/4/12	UF	<0.00167	—	U
Q003	CHQ-SMA-2	SS3374	5/1/12	8/26/12	MEx	2012-2065	WT_IPCHA-12-13031	7/4/12	UF	<0.00167	—	U
R001	R-SMA-0.5	SS082701	5/1/12	9/11/12	MEx	2012-2168	WT_IPLAP-12-13120	8/3/12	UF	0.00276	—	J
T005	T-SMA-3	SS20134	5/1/12	10/19/12	MEx	2012-2326	WT_IPMOR-12-13159	9/10/12	UF	<0.00167	—	U
V009	CDV-SMA-2.5	SS090420	5/1/12	—	MEx	2013-93	WT_IPW-13-24314	10/12/12	UF	<0.00167	—	U
W006	W-SMA-5	SS2528	5/1/12	9/17/12	MEx	2012-2067	WT_IPWAT-12-12846	7/3/12	UF	<0.00167	—	U
E011	2M-SMA-1.9	SS103218	5/1/2012	8/22/12	MEx	2012-2090	WT_IPPAJ-12-12739	7/1/12	UF	—	<0.005	U

[a] COC = Chain of custody.

[b] F = Filtered.

[c] UF = Unfiltered.

[d] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.

[e] < = The analyte was not detected in the sample; the reported value is the laboratory reporting limit.

[f] — = Not applicable.

[g] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of the effective date of the Permit.

Table B-10
Results for Radioactivity

Permitted Feature	SMA	Station Number	Stage Initiate Date	Stage Complete Date	Stage Number	COC[a]	Sample	Sample Date	Field Prep	Gross Alpha EPA:900 (pCi/L)	Radium-226 and Radium-228 EPA:903 EPA:904 (pCi/L)
E011	2M-SMA-1.9	SS103218	5/1/2012	8/22/12	MEx[b]	2012-2090	WT_IPPAJ-12-12739	7/11/2012	UF[c]	<1.31[d]	<1.2
E015	2M-SMA-2.5	SS093210	5/1/2012	10/19/12	MEx	2012-2317	WT_IPPAJ-12-12733	9/9/2012	UF	<1.79	<0.202
P003	ACID-SMA-2.1	SS100104	11/1/2011	9/6/12	MEx	2012-2148	WT_IPLAP-12-13100	8/3/2012	UF	24.8	4.4
V003	CDV-SMA-1.4	SS2542	5/1/2012	—[e]	MEx	2012-2292	WT_IPWAT-12-12808	9/10/2012	UF	6.22	2.01
V009	CDV-SMA-2.5	SS090420	5/1/2012	—	MEx	2013-93	WT_IPW-13-24314	10/12/2012	UF	12.5	7.14
Q002B	CHQ-SMA-1.03	SS090614	5/1/2012	8/26/12	MEx	2012-2065	WT_IPCHA-12-13027	7/4/2012	UF	63.5	4.03
Q003	CHQ-SMA-2	SS3374	5/1/2012	8/26/12	MEx	2012-2065	WT_IPCHA-12-13031	7/4/2012	UF	91.1	20.6
L001	LA-SMA-0.85	SS121043	10/23/2012	—	CAM5[f]	2013-354	WT_IPL-13-24803	11/9/2012	UF	22.9	<1.37
L004	LA-SMA-1.1	SS081004	—	—	CAM5	2013-145	WT_IPLAP-12-21984	9/28/2012	UF	<1.25	—
M012A	M-SMA-10.01	SS121235	9/25/2012	10/25/12	CAM5	2013-151	WT_IPMOR-12-23510	10/12/2012	UF	19.6	3.99
M008	M-SMA-6	SS111234	5/1/2012	—	MEx	2013-151	WT_IPMOR-12-13210	10/12/2012	UF	168	5.04
M009	M-SMA-7	SS1992	5/1/2012	8/21/12	MEx	2012-2068	WT_IPMOR-12-13156	7/7/2012	UF	46.3	5.14
J005	PJ-SMA-5	SS24254	11/1/2011	—	MEx	2013-135	WT_IPPAJ-12-12768	10/12/2012	UF	<2.72	<0.901
I003	PT-SMA-1.7	SS094813	5/1/2012	10/18/12	MEx	2012-2298	WT_IPWAT-12-12876	9/10/2012	UF	92.6	5.27
R001	R-SMA-0.5	SS082701	5/1/2012	9/11/12	MEx	2012-2168	WT_IPLAP-12-13120	8/3/2012	UF	36.5	10.8
J029	STRM-SMA-1.5	SS2411	11/1/2011	8/26/12	MEx	2012-2069	WT_IPPAJ-12-12770	7/11/2012	UF	1270	38.5
T005	T-SMA-3	SS20134	5/1/2012	10/19/12	MEx	2012-2326	WT_IPMOR-12-13159	9/10/2012	UF	34.4	2.01
W006	W-SMA-5	SS2528	5/1/2012	9/17/12	MEx	2012-2067	WT_IPWAT-12-12846	7/3/2012	UF	2.61	<0.224

[a] COC = Chain of custody.

[b] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.

[c] UF = Unfiltered.

[d] < = The analyte was not detected in the sample; the reported value is the laboratory reporting limit.

[e] — = Not applicable.

[f] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of the effective date of the Permit.

Table B-11
Results for Total PCBs

Permitted Feature	SMA	Station Name	Stage Initiate Date	Stage Complete Date	Stage Number	COC[a]	Sample	Sample Date	Field Prep	Total PCBs EPA:1668A (µg/L)
M008	M-SMA-6	SS111234	01-May-12	—[b]	MEx[c]	2013-163	WT_IPMOR-12-13210	10/12/12	UF[d]	0.0349
P003	ACID-SMA-2.1	SS100104	01-Nov-11	9/6/12	MEx	2012-2149	WT_IPLAP-12-13100	8/3/12	UF	0.0249
Q002B	CHQ-SMA-1.03	SS090614	01-May-12	8/26/12	MEx	2012-2066	WT_IPCHA-12-13027	7/4/12	UF	0.0155

[a] COC = Chain of custody.
[b] — = Not applicable.
[c] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.
[d] UF = Unfiltered.

Table B-12
Results for Organic Analytes

Permitted Feature	SMA	Station Number	Stage Initiate Date	Stage Complete Date	Stage Number	COC[a]	Sample	Sample Date	Field Prep	Benzo(a)pyrene EPA:625 (µg/L)	Hexachlorobenzene EPA:625 (µg/L)	Pentachlorophenol EPA:625 (µg/L)	RDX SW-846:8321 (µg/L)	2,4,6-Trinitrotoluene SW-846:8321 (µg/L)
I003	PT-SMA-1.7	SS094813	5/1/12	10/18/12	MEx[b]	2012-2298	WT_IPWAT-12-12876	9/10/12	UF[c]	—[d]	—	—	<0.0865[e]	<0.0865
J005	PJ-SMA-5	SS24254	11/1/11	—	MEx	2013-135	WT_IPPAJ-12-12768	10/12/12	UF	<0.44	<3	<3	—	—
J029	STRM-SMA-1.5	SS2411	11/1/11	8/26/12	MEx	2012-2069	WT_IPPAJ-12-12770	7/11/12	UF	<0.44	<3	<3	—	—
R001	R-SMA-0.5	SS082701	5/1/12	9/11/12	MEx	2012-2168	WT_IPLAP-12-13120	8/3/12	UF	—	—	—	<0.0899	<0.0899
V009	CDV-SMA-2.5	SS090420	5/1/12	—	MEx	2013-93	WT_IPW-13-24314	10/12/12	UF	<0.489 (R)	<3.33 (R)	<3.33 (R)	3.4	<0.0899
W006	W-SMA-5	SS2528	5/1/12	9/17/12	MEx	2012-2067	WT_IPWAT-12-12846	7/3/12	UF	<0.44	<3	<3	—	—

[a] COC = Chain of custody.
[b] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.
[c] UF = Unfiltered.
[d] — = Not applicable.
[e] < = The analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table B-13
2012 Compliance Results Screened to TALs

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
2M-SMA-1	INORGANIC	CAM5[a]	Aluminum	µg/L	2	2	100%	n/a[b]	n/a	n/a	750	1	50%	222 to 1430
2M-SMA-1.9	INORGANIC	MEx[c]	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	30.7
2M-SMA-1.9	INORGANIC	MEx	Antimony	µg/L	1	1	100%	640	1.78	0.00278	n/a	n/a	n/a	1.78
2M-SMA-1.9	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND[d]	<1[e]	340	0	0%	(5)
2M-SMA-1.9	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	16.8	0.00336	n/a	n/a	n/a	16.8
2M-SMA-1.9	INORGANIC	MEx	Cadmium	µg/L	1	1	100%	n/a	n/a	n/a	1	0	0%	0.815
2M-SMA-1.9	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(10)
2M-SMA-1.9	INORGANIC	MEx	Cobalt	µg/L	1	0	0%	1000	ND	<1	n/a	n/a	n/a	(5)
2M-SMA-1.9	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	24.9
2M-SMA-1.9	GENERAL CHEMISTRY	MEx	Cyanide (Total)	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.005)
2M-SMA-1.9	RAD	MEx	Gross alpha	pCi/L	1	0	0%	15	ND	<1	n/a	n/a	n/a	(1.31)
2M-SMA-1.9	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(2)
2M-SMA-1.9	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.2)
2M-SMA-1.9	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.38
2M-SMA-1.9	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	0	0%	30	ND	<1	n/a	n/a	n/a	(1.2)
2M-SMA-1.9	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(5)
2M-SMA-1.9	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(1)
2M-SMA-1.9	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(2)
2M-SMA-1.9	INORGANIC	MEx	Vanadium	µg/L	1	0	0%	100	ND	<1	n/a	n/a	n/a	(5)
2M-SMA-1.9	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	314
2M-SMA-2.5	INORGANIC	MEx	Aluminum	µg/L	1	0	0%	n/a	n/a	n/a	750	0	0%	(15)
2M-SMA-2.5	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
2M-SMA-2.5	INORGANIC	MEx	Arsenic	µg/L	1	1	100%	9	2.34	0.26	340	0	0%	2.34
2M-SMA-2.5	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	20.5	0.0041	n/a	n/a	n/a	20.5
2M-SMA-2.5	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
2M-SMA-2.5	INORGANIC	MEx	Chromium	µg/L	1	1	100%	n/a	n/a	n/a	210	0	0%	3.6
2M-SMA-2.5	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	1.32	0.00132	n/a	n/a	n/a	1.32
2M-SMA-2.5	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	1.83
2M-SMA-2.5	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
2M-SMA-2.5	RAD	MEx	Gross alpha	pCi/L	1	0	0%	15	ND	<1	n/a	n/a	n/a	(1.79)
2M-SMA-2.5	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
2M-SMA-2.5	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
2M-SMA-2.5	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	0.532
2M-SMA-2.5	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	0	0%	30	ND	<1	n/a	n/a	n/a	(0.202)
2M-SMA-2.5	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
2M-SMA-2.5	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
2M-SMA-2.5	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
2M-SMA-2.5	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	6.59	0.0659	n/a	n/a	n/a	6.59

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
2M-SMA-2.5	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	11.7
ACID-SMA-2.1	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	428
ACID-SMA-2.1	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
ACID-SMA-2.1	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
ACID-SMA-2.1	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	21.6	0.00432	n/a	n/a	n/a	21.6
ACID-SMA-2.1	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
ACID-SMA-2.1	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
ACID-SMA-2.1	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.11	0.00211	n/a	n/a	n/a	2.11
ACID-SMA-2.1	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	3.12
ACID-SMA-2.1	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
ACID-SMA-2.1	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	24.8	1.65	n/a	n/a	n/a	24.8
ACID-SMA-2.1	INORGANIC	MEx	Lead	µg/L	1	1	100%	n/a	n/a	n/a	17	0	0%	0.632
ACID-SMA-2.1	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
ACID-SMA-2.1	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.77
ACID-SMA-2.1	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	4.4	0.147	n/a	n/a	n/a	4.4
ACID-SMA-2.1	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
ACID-SMA-2.1	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
ACID-SMA-2.1	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
ACID-SMA-2.1	PCBCONGENERS	MEx	Total PCB	µg/L	1	1	100%	0.00064	0.0249	38.9	n/a	n/a	n/a	0.0249
ACID-SMA-2.1	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	2	0.02	n/a	n/a	n/a	2
ACID-SMA-2.1	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	15.2
CDV-SMA-1.4	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	110
CDV-SMA-1.4	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
CDV-SMA-1.4	INORGANIC	MEx	Arsenic	µg/L	1	1	100%	9	2.48	0.276	340	0	0%	2.48
CDV-SMA-1.4	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	46.3	0.00926	n/a	n/a	n/a	46.3
CDV-SMA-1.4	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
CDV-SMA-1.4	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
CDV-SMA-1.4	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	3.46	0.00346	n/a	n/a	n/a	3.46
CDV-SMA-1.4	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	3.72
CDV-SMA-1.4	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	6.22	0.415	n/a	n/a	n/a	6.22
CDV-SMA-1.4	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
CDV-SMA-1.4	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
CDV-SMA-1.4	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	2.42
CDV-SMA-1.4	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	2.01	0.067	n/a	n/a	n/a	2.01
CDV-SMA-1.4	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
CDV-SMA-1.4	INORGANIC	MEx	Silver	µg/L	1	1	100%	n/a	n/a	n/a	0.5	1	100%	7.86
CDV-SMA-1.4	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
CDV-SMA-1.4	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	2.2	0.022	n/a	n/a	n/a	2.2
CDV-SMA-1.4	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	5.7

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
CDV-SMA-2.5	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	534
CDV-SMA-2.5	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
CDV-SMA-2.5	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
CDV-SMA-2.5	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	17.4	0.00348	n/a	n/a	n/a	17.4
CDV-SMA-2.5	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
CDV-SMA-2.5	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
CDV-SMA-2.5	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	1.94	0.00194	n/a	n/a	n/a	1.94
CDV-SMA-2.5	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	2.15
CDV-SMA-2.5	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
CDV-SMA-2.5	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	12.5	0.833	n/a	n/a	n/a	12.5
CDV-SMA-2.5	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
CDV-SMA-2.5	INORGANIC	MEx	Mercury	µg/L	1	1	100%	0.77	0.103	0.134	1.4	0	0%	0.103
CDV-SMA-2.5	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.04
CDV-SMA-2.5	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	7.14	0.238	n/a	n/a	n/a	7.14
CDV-SMA-2.5	LCMS/MS HIGH EXPLOSIVES	MEx	RDX	µg/L	1	1	100%	200	3.4	0.017	n/a	n/a	n/a	3.4
CDV-SMA-2.5	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
CDV-SMA-2.5	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
CDV-SMA-2.5	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
CDV-SMA-2.5	LCMS/MS HIGH EXPLOSIVES	MEx	Trinitrotoluene[2,4,6-]	µg/L	1	0	0%	20	ND	<1	n/a	n/a	n/a	(0.0899)
CDV-SMA-2.5	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	2.33	0.0233	n/a	n/a	n/a	2.33
CDV-SMA-2.5	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	18.6
CHQ-SMA-1.03	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	440
CHQ-SMA-1.03	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
CHQ-SMA-1.03	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
CHQ-SMA-1.03	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	47.6	0.00952	n/a	n/a	n/a	47.6
CHQ-SMA-1.03	INORGANIC	MEx	Cadmium	µg/L	1	1	100%	n/a	n/a	n/a	1	0	0%	0.147
CHQ-SMA-1.03	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
CHQ-SMA-1.03	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.06	0.00206	n/a	n/a	n/a	2.06
CHQ-SMA-1.03	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	14.4
CHQ-SMA-1.03	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
CHQ-SMA-1.03	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	63.5	4.23	n/a	n/a	n/a	63.5
CHQ-SMA-1.03	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
CHQ-SMA-1.03	INORGANIC	MEx	Mercury	µg/L	1	1	100%	0.77	0.084	0.109	1.4	0	0%	0.084
CHQ-SMA-1.03	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	2.06
CHQ-SMA-1.03	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	4.03	0.134	n/a	n/a	n/a	4.03
CHQ-SMA-1.03	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
CHQ-SMA-1.03	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
CHQ-SMA-1.03	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
CHQ-SMA-1.03	PCBCONGENERS	MEx	Total PCB	µg/L	1	1	100%	0.00064	0.0155	24.2	n/a	n/a	n/a	0.0155

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
CHQ-SMA-1.03	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	3.93	0.0393	n/a	n/a	n/a	3.93
CHQ-SMA-1.03	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	10.3
CHQ-SMA-2	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	1	100%	967
CHQ-SMA-2	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
CHQ-SMA-2	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
CHQ-SMA-2	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	20.3	0.00406	n/a	n/a	n/a	20.3
CHQ-SMA-2	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
CHQ-SMA-2	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
CHQ-SMA-2	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	3.69	0.00369	n/a	n/a	n/a	3.69
CHQ-SMA-2	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	6.75
CHQ-SMA-2	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
CHQ-SMA-2	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	91.1	6.07	n/a	n/a	n/a	91.1
CHQ-SMA-2	INORGANIC	MEx	Lead	µg/L	1	1	100%	n/a	n/a	n/a	17	0	0%	0.777
CHQ-SMA-2	INORGANIC	MEx	Mercury	µg/L	1	1	100%	0.77	0.174	0.226	1.4	0	0%	0.174
CHQ-SMA-2	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	2.48
CHQ-SMA-2	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	20.6	0.687	n/a	n/a	n/a	20.6
CHQ-SMA-2	INORGANIC	MEx	Selenium	µg/L	1	1	100%	5	2.44	0.488	20	0	0%	2.44
CHQ-SMA-2	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
CHQ-SMA-2	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
CHQ-SMA-2	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	2.83	0.0283	n/a	n/a	n/a	2.83
CHQ-SMA-2	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	5.71
LA-SMA-0.85	INORGANIC	CAM5	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	462
LA-SMA-0.85	INORGANIC	CAM5	Antimony	µg/L	1	1	100%	640	1.28	0.002	n/a	n/a	n/a	1.28
LA-SMA-0.85	INORGANIC	CAM5	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
LA-SMA-0.85	INORGANIC	CAM5	Boron	µg/L	1	1	100%	5000	28.4	0.00568	n/a	n/a	n/a	28.4
LA-SMA-0.85	INORGANIC	CAM5	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
LA-SMA-0.85	INORGANIC	CAM5	Chromium	µg/L	1	1	100%	n/a	n/a	n/a	210	0	0%	3.04
LA-SMA-0.85	INORGANIC	CAM5	Cobalt	µg/L	1	1	100%	1000	1.73	0.00173	n/a	n/a	n/a	1.73
LA-SMA-0.85	INORGANIC	CAM5	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	26.4
LA-SMA-0.85	GENERAL CHEMISTRY	CAM5	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
LA-SMA-0.85	RAD	CAM5	Gross alpha	pCi/L	1	1	100%	15	22.9	1.53	n/a	n/a	n/a	22.9
LA-SMA-0.85	INORGANIC	CAM5	Lead	µg/L	1	1	100%	n/a	n/a	n/a	17	0	0%	1.48
LA-SMA-0.85	INORGANIC	CAM5	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
LA-SMA-0.85	INORGANIC	CAM5	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	3.44
LA-SMA-0.85	RAD	CAM5	Radium-226 and Radium-228	pCi/L	1	0	0%	30	ND	<1	n/a	n/a	n/a	(1.37)
LA-SMA-0.85	INORGANIC	CAM5	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
LA-SMA-0.85	INORGANIC	CAM5	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
LA-SMA-0.85	INORGANIC	CAM5	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
LA-SMA-0.85	INORGANIC	CAM5	Vanadium	µg/L	1	1	100%	100	6.4	0.064	n/a	n/a	n/a	6.4

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
LA-SMA-0.85	INORGANIC	CAM5	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	56.1
LA-SMA-1.1	INORGANIC	CACompD	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	17.7
LA-SMA-1.1	RAD	CACompD	Gross alpha	pCi/L	1	0	0%	15	ND	<1	n/a	n/a	n/a	(1.25)
LA-SMA-1.1	INORGANIC	CACompD	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	131
LA-SMA-1.25	INORGANIC	CAM5	Copper	µg/L	2	2	100%	n/a	n/a	n/a	4.3	2	100%	7.31 to 25
LA-SMA-1.25	INORGANIC	CAM5	Zinc	µg/L	2	2	100%	n/a	n/a	n/a	42	2	100%	53.2 to 111
M-SMA-10.01	INORGANIC	CAM5	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	121
M-SMA-10.01	INORGANIC	CAM5	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
M-SMA-10.01	INORGANIC	CAM5	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
M-SMA-10.01	INORGANIC	CAM5	Boron	µg/L	1	0	0%	5000	ND	<1	n/a	n/a	n/a	(15)
M-SMA-10.01	INORGANIC	CAM5	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
M-SMA-10.01	INORGANIC	CAM5	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
M-SMA-10.01	INORGANIC	CAM5	Cobalt	µg/L	1	1	100%	1000	2.48	0.00248	n/a	n/a	n/a	2.48
M-SMA-10.01	INORGANIC	CAM5	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	2.35
M-SMA-10.01	GENERAL CHEMISTRY	CAM5	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
M-SMA-10.01	RAD	CAM5	Gross alpha	pCi/L	1	1	100%	15	19.6	1.31	n/a	n/a	n/a	19.6
M-SMA-10.01	INORGANIC	CAM5	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
M-SMA-10.01	INORGANIC	CAM5	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
M-SMA-10.01	INORGANIC	CAM5	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.69
M-SMA-10.01	RAD	CAM5	Radium-226 and Radium-228	pCi/L	1	1	100%	30	3.99	0.133	n/a	n/a	n/a	3.99
M-SMA-10.01	INORGANIC	CAM5	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
M-SMA-10.01	INORGANIC	CAM5	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
M-SMA-10.01	INORGANIC	CAM5	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
M-SMA-10.01	INORGANIC	CAM5	Vanadium	µg/L	1	1	100%	100	2.49	0.0249	n/a	n/a	n/a	2.49
M-SMA-10.01	INORGANIC	CAM5	Zinc	µg/L	1	0	0%	n/a	n/a	n/a	42	0	0%	(3.3)
M-SMA-6	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	628
M-SMA-6	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
M-SMA-6	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
M-SMA-6	INORGANIC	MEx	Boron	µg/L	1	0	0%	5000	ND	<1	n/a	n/a	n/a	(15)
M-SMA-6	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
M-SMA-6	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
M-SMA-6	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.91	0.00291	n/a	n/a	n/a	2.91
M-SMA-6	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	13
M-SMA-6	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	1	100%	0.01	0.00221	0.221	0.022	0	0%	0.00221
M-SMA-6	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	168	11.2	n/a	n/a	n/a	168
M-SMA-6	INORGANIC	MEx	Lead	µg/L	1	1	100%	n/a	n/a	n/a	17	0	0%	0.715
M-SMA-6	INORGANIC	MEx	Mercury	µg/L	1	1	100%	0.77	0.131	0.17	1.4	0	0%	0.131
M-SMA-6	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.92
M-SMA-6	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	5.04	0.168	n/a	n/a	n/a	5.04

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
M-SMA-6	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
M-SMA-6	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
M-SMA-6	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
M-SMA-6	PCBCONGENERS	MEx	Total PCB	µg/L	1	1	100%	0.00064	0.0349	54.5	n/a	n/a	n/a	0.0349
M-SMA-6	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	2.07	0.0207	n/a	n/a	n/a	2.07
M-SMA-6	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	24.8
M-SMA-7	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	530
M-SMA-7	INORGANIC	MEx	Antimony	µg/L	1	1	100%	640	4.84	0.00756	n/a	n/a	n/a	4.84
M-SMA-7	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(5)
M-SMA-7	INORGANIC	MEx	Boron	µg/L	1	0	0%	5000	ND	<1	n/a	n/a	n/a	(50)
M-SMA-7	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(1)
M-SMA-7	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(10)
M-SMA-7	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.15	0.00215	n/a	n/a	n/a	2.15
M-SMA-7	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	2.51
M-SMA-7	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.005)
M-SMA-7	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	46.3	3.09	n/a	n/a	n/a	46.3
M-SMA-7	INORGANIC	MEx	Lead	µg/L	1	1	100%	n/a	n/a	n/a	17	0	0%	0.525
M-SMA-7	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.2)
M-SMA-7	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.07
M-SMA-7	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	5.14	0.171	n/a	n/a	n/a	5.14
M-SMA-7	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(5)
M-SMA-7	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(1)
M-SMA-7	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(2)
M-SMA-7	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	3.53	0.0353	n/a	n/a	n/a	3.53
M-SMA-7	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	1	100%	60.6
PJ-SMA-5	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	225
PJ-SMA-5	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
PJ-SMA-5	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
PJ-SMA-5	SVOC	MEx	Benzo(a)pyrene	µg/L	1	0	0%	5	ND	<1	n/a	n/a	n/a	(0.44)
PJ-SMA-5	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	17.8	0.00356	n/a	n/a	n/a	17.8
PJ-SMA-5	INORGANIC	MEx	Cadmium	µg/L	1	1	100%	n/a	n/a	n/a	1	0	0%	0.426
PJ-SMA-5	INORGANIC	MEx	Chromium	µg/L	1	1	100%	n/a	n/a	n/a	210	0	0%	2.37
PJ-SMA-5	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	1.65	0.00165	n/a	n/a	n/a	1.65
PJ-SMA-5	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	75.5
PJ-SMA-5	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
PJ-SMA-5	RAD	MEx	Gross alpha	pCi/L	1	0	0%	15	ND	<1	n/a	n/a	n/a	(2.72)
PJ-SMA-5	SVOC	MEx	Hexachlorobenzene	µg/L	1	0	0%	5	ND	<1	n/a	n/a	n/a	(3)
PJ-SMA-5	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
PJ-SMA-5	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
PJ-SMA-5	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	18
PJ-SMA-5	SVOC	MEx	Pentachlorophenol	µg/L	1	0	0%	n/a	n/a	n/a	19	0	0%	(3)
PJ-SMA-5	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	0	0%	30	ND	<1	n/a	n/a	n/a	(0.901)
PJ-SMA-5	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
PJ-SMA-5	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
PJ-SMA-5	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
PJ-SMA-5	INORGANIC	MEx	Vanadium	µg/L	1	0	0%	100	ND	<1	n/a	n/a	n/a	(1)
PJ-SMA-5	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	6.97
PT-SMA-1.7	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	501
PT-SMA-1.7	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
PT-SMA-1.7	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
PT-SMA-1.7	INORGANIC	MEx	Boron	µg/L	1	0	0%	5000	ND	<1	n/a	n/a	n/a	(15)
PT-SMA-1.7	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
PT-SMA-1.7	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
PT-SMA-1.7	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.03	0.00203	n/a	n/a	n/a	2.03
PT-SMA-1.7	INORGANIC	MEx	Copper	µg/L	1	0	0%	n/a	n/a	n/a	4.3	0	0%	(2.09)
PT-SMA-1.7	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
PT-SMA-1.7	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	92.6	6.17	n/a	n/a	n/a	92.6
PT-SMA-1.7	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
PT-SMA-1.7	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
PT-SMA-1.7	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.34
PT-SMA-1.7	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	5.27	0.176	n/a	n/a	n/a	5.27
PT-SMA-1.7	LCMS/MS HIGH EXPLOSIVES	MEx	RDX	µg/L	1	0	0%	200	ND	<1	n/a	n/a	n/a	(0.0865)
PT-SMA-1.7	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
PT-SMA-1.7	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
PT-SMA-1.7	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
PT-SMA-1.7	LCMS/MS HIGH EXPLOSIVES	MEx	Trinitrotoluene[2,4,6-]	µg/L	1	0	0%	20	ND	<1	n/a	n/a	n/a	(0.0865)
PT-SMA-1.7	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	2.34	0.0234	n/a	n/a	n/a	2.34
PT-SMA-1.7	INORGANIC	MEx	Zinc	µg/L	1	0	0%	n/a	n/a	n/a	42	0	0%	(3.3)
R-SMA-0.5	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	287
R-SMA-0.5	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
R-SMA-0.5	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
R-SMA-0.5	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	17.4	0.00348	n/a	n/a	n/a	17.4
R-SMA-0.5	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
R-SMA-0.5	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
R-SMA-0.5	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.66	0.00266	n/a	n/a	n/a	2.66
R-SMA-0.5	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	1.12
R-SMA-0.5	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	1	100%	0.01	0.00276	0.276	0.022	0	0%	0.00276
R-SMA-0.5	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	36.5	2.43	n/a	n/a	n/a	36.5

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
R-SMA-0.5	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
R-SMA-0.5	INORGANIC	MEx	Mercury	µg/L	1	1	100%	0.77	0.171	0.222	1.4	0	0%	0.171
R-SMA-0.5	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	0.755
R-SMA-0.5	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	10.8	0.36	n/a	n/a	n/a	10.8
R-SMA-0.5	LCMS/MS HIGH EXPLOSIVES	MEx	RDX	µg/L	1	0	0%	200	ND	<1	n/a	n/a	n/a	(0.0899)
R-SMA-0.5	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
R-SMA-0.5	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
R-SMA-0.5	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
R-SMA-0.5	LCMS/MS HIGH EXPLOSIVES	MEx	Trinitrotoluene[2,4,6-]	µg/L	1	0	0%	20	ND	<1	n/a	n/a	n/a	(0.0899)
R-SMA-0.5	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	1.15	0.0115	n/a	n/a	n/a	1.15
R-SMA-0.5	INORGANIC	MEx	Zinc	µg/L	1	0	0%	n/a	n/a	n/a	42	0	0%	(3.3)
STRM-SMA-1.5	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	461
STRM-SMA-1.5	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
STRM-SMA-1.5	INORGANIC	MEx	Arsenic	µg/L	1	1	100%	9	3.43	0.381	340	0	0%	3.43
STRM-SMA-1.5	SVOC	MEx	Benzo(a)pyrene	µg/L	1	0	0%	5	ND	<1	n/a	n/a	n/a	(0.44)
STRM-SMA-1.5	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	28.7	0.00574	n/a	n/a	n/a	28.7
STRM-SMA-1.5	INORGANIC	MEx	Cadmium	µg/L	1	1	100%	n/a	n/a	n/a	1	1	100%	1.26
STRM-SMA-1.5	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)
STRM-SMA-1.5	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.35	0.00235	n/a	n/a	n/a	2.35
STRM-SMA-1.5	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	0	0%	2.63
STRM-SMA-1.5	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	1	100%	0.01	0.0276	2.76	0.022	1	100%	0.0276
STRM-SMA-1.5	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	1270	84.7	n/a	n/a	n/a	1270
STRM-SMA-1.5	SVOC	MEx	Hexachlorobenzene	µg/L	1	0	0%	5	ND	<1	n/a	n/a	n/a	(3)
STRM-SMA-1.5	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
STRM-SMA-1.5	INORGANIC	MEx	Mercury	µg/L	1	1	100%	0.77	1.17	1.52	1.4	0	0%	1.17
STRM-SMA-1.5	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.93
STRM-SMA-1.5	SVOC	MEx	Pentachlorophenol	µg/L	1	0	0%	n/a	n/a	n/a	19	0	0%	(3)
STRM-SMA-1.5	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	38.5	1.28	n/a	n/a	n/a	38.5
STRM-SMA-1.5	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(7.5)
STRM-SMA-1.5	INORGANIC	MEx	Silver	µg/L	1	1	100%	n/a	n/a	n/a	0.5	1	100%	0.589
STRM-SMA-1.5	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
STRM-SMA-1.5	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	1.65	0.0165	n/a	n/a	n/a	1.65
STRM-SMA-1.5	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	4.15
T-SMA-3	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	273
T-SMA-3	INORGANIC	MEx	Antimony	µg/L	1	1	100%	640	3.09	0.00483	n/a	n/a	n/a	3.09
T-SMA-3	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
T-SMA-3	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	20.9	0.00418	n/a	n/a	n/a	20.9
T-SMA-3	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
T-SMA-3	INORGANIC	MEx	Chromium	µg/L	1	0	0%	n/a	n/a	n/a	210	0	0%	(2)

Table B-13 (continued)

SMA	Suite	Stage	Analyte	Unit of Measure	Total Analyses	No. of Detects	Percent of Detects	ATAL	Geo Mean	Geo Mean/ ATAL Ratio	MTAL	No. of MTAL Exceedances	Percent MTAL Exceedances	Concentration Range
T-SMA-3	INORGANIC	MEx	Cobalt	µg/L	1	1	100%	1000	2.33	0.00233	n/a	n/a	n/a	2.33
T-SMA-3	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	13.4
T-SMA-3	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
T-SMA-3	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	34.4	2.29	n/a	n/a	n/a	34.4
T-SMA-3	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
T-SMA-3	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
T-SMA-3	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	1.78
T-SMA-3	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	1	100%	30	2.01	0.067	n/a	n/a	n/a	2.01
T-SMA-3	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
T-SMA-3	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
T-SMA-3	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
T-SMA-3	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	3.07	0.0307	n/a	n/a	n/a	3.07
T-SMA-3	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	11.1
W-SMA-5	INORGANIC	MEx	Aluminum	µg/L	1	1	100%	n/a	n/a	n/a	750	0	0%	21.5
W-SMA-5	INORGANIC	MEx	Antimony	µg/L	1	0	0%	640	ND	<1	n/a	n/a	n/a	(1)
W-SMA-5	INORGANIC	MEx	Arsenic	µg/L	1	0	0%	9	ND	<1	340	0	0%	(1.7)
W-SMA-5	SVOC	MEx	Benzo(a)pyrene	µg/L	1	0	0%	5	ND	<1	n/a	n/a	n/a	(0.44)
W-SMA-5	INORGANIC	MEx	Boron	µg/L	1	1	100%	5000	111	0.0222	n/a	n/a	n/a	111
W-SMA-5	INORGANIC	MEx	Cadmium	µg/L	1	0	0%	n/a	n/a	n/a	1	0	0%	(0.11)
W-SMA-5	INORGANIC	MEx	Chromium	µg/L	1	1	100%	n/a	n/a	n/a	210	0	0%	2.95
W-SMA-5	INORGANIC	MEx	Cobalt	µg/L	1	0	0%	1000	ND	<1	n/a	n/a	n/a	(1)
W-SMA-5	INORGANIC	MEx	Copper	µg/L	1	1	100%	n/a	n/a	n/a	4.3	1	100%	6.28
W-SMA-5	GENERAL CHEMISTRY	MEx	Cyanide, weak acid dissociable	mg/L	1	0	0%	0.01	ND	<1	0.022	0	0%	(0.00167)
W-SMA-5	RAD	MEx	Gross alpha	pCi/L	1	1	100%	15	2.61	0.174	n/a	n/a	n/a	2.61
W-SMA-5	SVOC	MEx	Hexachlorobenzene	µg/L	1	0	0%	5	ND	<1	n/a	n/a	n/a	(3)
W-SMA-5	INORGANIC	MEx	Lead	µg/L	1	0	0%	n/a	n/a	n/a	17	0	0%	(0.5)
W-SMA-5	INORGANIC	MEx	Mercury	µg/L	1	0	0%	0.77	ND	<1	1.4	0	0%	(0.067)
W-SMA-5	INORGANIC	MEx	Nickel	µg/L	1	1	100%	n/a	n/a	n/a	170	0	0%	0.533
W-SMA-5	SVOC	MEx	Pentachlorophenol	µg/L	1	0	0%	n/a	n/a	n/a	19	0	0%	(3)
W-SMA-5	RAD	MEx	Radium-226 and Radium-228	pCi/L	1	0	0%	30	ND	<1	n/a	n/a	n/a	(0.224)
W-SMA-5	INORGANIC	MEx	Selenium	µg/L	1	0	0%	5	ND	<1	20	0	0%	(1.5)
W-SMA-5	INORGANIC	MEx	Silver	µg/L	1	0	0%	n/a	n/a	n/a	0.5	0	0%	(0.2)
W-SMA-5	INORGANIC	MEx	Thallium	µg/L	1	0	0%	6.3	ND	<1	n/a	n/a	n/a	(0.45)
W-SMA-5	INORGANIC	MEx	Vanadium	µg/L	1	1	100%	100	11.9	0.119	n/a	n/a	n/a	11.9
W-SMA-5	INORGANIC	MEx	Zinc	µg/L	1	1	100%	n/a	n/a	n/a	42	0	0%	21.7

Note: Shading indicates TAL exceedance.

[a] CAM5 = Corrective Action Enhanced Control Monitoring: Two confirmation monitoring samples are collected following completion of corrective action control measures at moderate priority sites within 5 yr of effective date of the Permit.

[b] n/a = Not applicable.

[c] MEx = Extended Baseline Monitoring: One confirmation monitoring sample is collected to determine if corrective action is required.

[d] ND = Not detected.

[e] < = The analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Appendix C

Control Measures

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
2M-SMA-1	Baseline	1-Nov-10	E00102010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X[f]	—[g]	—	—
			E00102020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			E00104060010	Channel/Swale	Rip Rap	X	—	X	—
			E00104060011	Channel/Swale	Rip Rap	X	—	X	—
			E00106010007	Check Dam	Rock Check Dam	—	X	X	—
			E00106010008	Check Dam	Rock Check Dam	—	X	X	—
			E00106010009	Check Dam	Rock Check Dam	—	X	X	—
			E00107010003	Gabion	Gabions	—	X	—	X
			E00107010004	Gabion	Gabions	—	X	—	X
	Enhanced	20-Jul-12	E00103010014	Berm	Earthen Berm	—	X	X	—
			E00103110015	Berm	Eco-Block	—	X	X	—
			E00105020013	Sediment Trap and Basin	Sediment Basin	—	X	X	—
			E00106010016	Check Dam	Rock Check Dam	—	X	X	—
			E00106010017	Check Dam	Rock Check Dam	—	X	X	—
			E00106010018	Check Dam	Rock Check Dam	—	X	X	—
			E00106010019	Check Dam	Rock Check Dam	—	X	X	—
			E00106010020	Check Dam	Rock Check Dam	—	X	X	—
			E00106010021	Check Dam	Rock Check Dam	—	X	X	—
			E00106010022	Check Dam	Rock Check Dam	—	X	X	—
			E00106010023	Check Dam	Rock Check Dam	—	X	X	—
			E00106010024	Check Dam	Rock Check Dam	—	X	X	—
			E00106010025	Check Dam	Rock Check Dam	—	X	X	—
2M-SMA-1.42	Baseline	13-Dec-10	E00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E00202020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			E00203120003	Berm	Rock Berm	—	X	X	—
			E00206010006	Check Dam	Rock Check Dam	—	X	X	—
			E00206010007	Check Dam	Rock Check Dam	—	X	X	—
			E00206010008	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
2M-SMA-1.42	Enhanced	27-Jun-12	E00201010013	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			E00203010011	Berm	Earthen Berm	—	X	—	X
			E00203010012	Berm	Earthen Berm	—	X	X	—
			E00203010014	Berm	Earthen Berm	—	X	X	—
2M-SMA-1.43	Additional	n/a[h]	E00304060004	Channel/Swale	Rip Rap	X	—	—	X
	Baseline	1-Nov-10	E00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E00302030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	—
			E00306010003	Check Dam	Rock Check Dam	—	X	—	X
2M-SMA-1.44	Baseline	13-Dec-10	E00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E00402020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
	Enhanced	27-Jun-12	E00401010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			E00403010006	Berm	Earthen Berm	—	X	X	—
2M-SMA-1.45	Additional	n/a	E00503010014	Berm	Earthen Berm	—	X	—	X
			E00503010015	Berm	Earthen Berm	—	X	X	—
	Baseline	13-Dec-10	E00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	21-Aug-12	E00503010016	Berm	Earthen Berm	—	X	—	X
			E00503010017	Berm	Earthen Berm	—	X	—	X
2M-SMA-1.5	Additional	n/a	E00603060004	Berm	Straw Wattles	—	X	X	—
	Baseline	1-Nov-10	E00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E00602030003	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	X	—	X
			E00604040002	Channel/Swale	Culvert	X	—	X	—
2M-SMA-1.65	Baseline	13-Dec-10	E00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E00703010004	Berm	Earthen Berm	—	X	X	—
			E00703010005	Berm	Earthen Berm	—	X	—	X
	Enhanced	20-Jul-12	E00703010010	Berm	Earthen Berm	—	X	X	—
			E00706010006	Check Dam	Rock Check Dam	—	X	X	—
			E00706010007	Check Dam	Rock Check Dam	—	X	X	—
			E00706010008	Check Dam	Rock Check Dam	—	X	X	—
			E00706010009	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
2M-SMA-1.67	Additional	n/a	E00803010014	Berm	Earthen Berm	—	X	—	X
			E00803010015	Berm	Earthen Berm	—	X	—	X
	Baseline	29-Mar-11	E00801010006	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			E00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E00802020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			E00803060009	Berm	Straw Wattles	—	X	X	—
2M-SMA-1.7	Baseline	13-Dec-10	E00902020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			E00903120005	Berm	Rock Berm	—	X	—	X
	Enhanced	27-Jul-12	E00903010008	Berm	Earthen Berm	—	X	X	—
2M-SMA-1.8	Baseline	13-Dec-10	E01002020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			E01003040003	Berm	Asphalt Berm	—	X	X	—
			E01006010004	Check Dam	Rock Check Dam	—	X	—	X
			E01006010005	Check Dam	Rock Check Dam	—	X	—	X
			E01006010006	Check Dam	Rock Check Dam	—	X	—	X
			E01006010007	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	In Progress	E01008030008	Cap	Concrete/Asphalt Cap	X	—	X	—
			E01008030009	Cap	Concrete/Asphalt Cap	X	—	X	—
2M-SMA-1.9	Baseline	13-Dec-10	E01103090001	Berm	Curbing	—	X	X	—
			E01103100002	Berm	Gravel Bags	—	X	X	—
			E01103100003	Berm	Gravel Bags	—	X	—	X
2M-SMA-2	Baseline	13-Dec-10	E01202010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E01202020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			E01203090006	Berm	Curbing	—	X	X	—
	Enhanced	In Progress	E01205020014	Sediment Trap and Basin	Sediment Basin	—	X	—	X
2M-SMA-2.2	Baseline	1-Nov-10	E01303090002	Berm	Curbing	—	—	X	—
			E01304020003	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	—	X
			E01306010004	Check Dam	Rock Check Dam	—	X	—	X
			E01306010005	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	In Progress	E01308030006	Cap	Concrete/Asphalt Cap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
2M-SMA-2.5	Baseline	13-Dec-10	E01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E01503010004	Berm	Earthen Berm	—	X	X	—
			E01503010005	Berm	Earthen Berm	—	X	—	X
2M-SMA-3	Additional	n/a	E01403060010	Berm	Straw Wattles	—	X	X	—
			E01403060011	Berm	Straw Wattles	—	X	—	X
			E01403060012	Berm	Straw Wattles	—	X	—	X
	Baseline	13-Dec-10	E01402010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			E01403060008	Berm	Straw Wattles	—	X	—	X
			E01403060009	Berm	Straw Wattles	—	X	—	X
3M-SMA-0.2	Additional	n/a	H00103010005	Berm	Earthen Berm	—	X	X	—
	Baseline	1-Nov-10	H00102020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			H00106010002	Check Dam	Rock Check Dam	—	X	—	X
3M-SMA-0.4	Additional	n/a	H00203010004	Berm	Earthen Berm	—	X	—	X
	Baseline	22-Dec-10	H00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			H00203010003	Berm	Earthen Berm	—	X	—	X
3M-SMA-0.5	Baseline	22-Dec-10	H00301030015	Seed and Mulch	Hydromulch	X	—	—	—
			H00302010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			H00303010014	Berm	Earthen Berm	—	X	—	X
			H00304060001	Channel/Swale	Rip Rap	X	—	—	X
			H00304060004	Channel/Swale	Rip Rap	X	—	—	X
			H00306010002	Check Dam	Rock Check Dam	—	X	—	X
			H00306010005	Check Dam	Rock Check Dam	—	X	X	—
			H00306010006	Check Dam	Rock Check Dam	—	X	X	—
			H00306010007	Check Dam	Rock Check Dam	—	X	X	—
			H00306010008	Check Dam	Rock Check Dam	—	X	X	—
			H00306010009	Check Dam	Rock Check Dam	—	X	X	—
			H00306010010	Check Dam	Rock Check Dam	—	X	X	—
			H00306010011	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
3M-SMA-0.5	Baseline	22-Dec-10	H00306010012	Check Dam	Rock Check Dam	—	X	X	—
			H00306010013	Check Dam	Rock Check Dam	—	X	—	X
			H00306010016	Check Dam	Rock Check Dam	—	X	X	—
3M-SMA-0.6	Baseline	22-Dec-10	H00401010025	Seed and Mulch	Seed and Wood Mulch	X	—	X	—
			H00401030028	Seed and Mulch	Hydromulch	X	—	—	—
			H00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			H00402020026	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			H00403060002	Berm	Straw Wattles	—	X	X	—
			H00403060003	Berm	Straw Wattles	—	X	X	—
			H00403060004	Berm	Straw Wattles	—	X	X	—
			H00403060006	Berm	Straw Wattles	—	X	X	—
			H00403060007	Berm	Straw Wattles	—	X	X	—
			H00403060008	Berm	Straw Wattles	—	X	X	—
			H00403060009	Berm	Straw Wattles	—	X	X	—
			H00403060010	Berm	Straw Wattles	—	X	X	—
			H00403060011	Berm	Straw Wattles	—	X	—	X
			H00403060012	Berm	Straw Wattles	—	X	—	X
			H00403060013	Berm	Straw Wattles	—	X	—	X
			H00403060015	Berm	Straw Wattles	—	X	X	—
			H00403060017	Berm	Straw Wattles	—	X	—	X
			H00403060018	Berm	Straw Wattles	—	X	—	X
			H00403060019	Berm	Straw Wattles	—	X	—	X
			H00403060020	Berm	Straw Wattles	—	X	—	X
			H00403060021	Berm	Straw Wattles	—	X	—	X
			H00403060022	Berm	Straw Wattles	—	X	X	—
			H00403060023	Berm	Straw Wattles	—	X	X	—
			H00403060024	Berm	Straw Wattles	—	X	—	X
			H00403060027	Berm	Straw Wattles	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
3M-SMA-2.6	Baseline	29-Mar-11	H00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			H00502020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			H00502030004	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	X	—	X
			H00503120005	Berm	Rock Berm	—	X	X	—
			H00504040003	Channel/Swale	Culvert	—	—	X	—
			H00506010006	Check Dam	Rock Check Dam	—	X	—	X
3M-SMA-4	Baseline	13-Dec-10	H00602010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			H00603010007	Berm	Earthen Berm	—	X	—	X
			H00603010008	Berm	Earthen Berm	—	X	—	X
			H00604020009	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			H00604060005	Channel/Swale	Rip Rap	X	—	X	—
			H00604060006	Channel/Swale	Rip Rap	X	—	—	X
			H00607010002	Gabion	Gabions	—	X	X	—
ACID-SMA-1.05	Baseline	1-Nov-10	P00103010005	Berm	Earthen Berm	—	X	—	X
			P00103090003	Berm	Curbing	—	X	X	—
			P00104040004	Channel/Swale	Culvert	X	—	X	—
ACID-SMA-2	Additional	n/a	P00203060015	Berm	Straw Wattles	—	X	X	—
			P00203060016	Berm	Straw Wattles	—	X	X	—
			P00203060017	Berm	Straw Wattles	—	X	X	—
	Baseline	1-Nov-10	P00202020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			P00203010004	Berm	Earthen Berm	—	X	—	X
			P00206010002	Check Dam	Rock Check Dam	—	X	X	—
			P00206010013	Check Dam	Rock Check Dam	—	X	X	—
ACID-SMA-2.01	Additional	n/a	P002A03060006	Berm	Straw Wattles	—	X	—	X
	Baseline	6-Dec-10	P002A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P002A03010004	Berm	Earthen Berm	—	X	X	—
			P002A04060002	Channel/Swale	Rip Rap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
ACID-SMA-2.1	Additional	n/a	P00303060016	Berm	Straw Wattles	—	X	X	—
			P00303060017	Berm	Straw Wattles	—	X	X	—
			P00303060018	Berm	Straw Wattles	—	X	X	—
	Baseline	1-Nov-10	P00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00302020014	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			P00302030012	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	X	—	X
			P00303010002	Berm	Earthen Berm	—	X	X	—
			P00303010009	Berm	Earthen Berm	—	X	X	—
			P00304060011	Channel/Swale	Rip Rap	X	—	X	—
			P00306010004	Check Dam	Rock Check Dam	—	X	X	—
			P00306010015	Check Dam	Rock Check Dam	—	X	X	—
A-SMA-1.1	Baseline	1-Nov-10	A00102030001	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			A00103010005	Berm	Earthen Berm	—	X	X	—
A-SMA-2	Additional	n/a	A00203060016	Berm	Straw Wattles	—	X	X	—
	Baseline	12-Jan-11	A00202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00203010007	Berm	Earthen Berm	—	X	X	—
			A00203010008	Berm	Earthen Berm	—	X	X	—
			A00203060010	Berm	Straw Wattles	—	X	—	X
			A00204010013	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			A00204060004	Channel/Swale	Rip Rap	X	—	X	—
			A00206010011	Check Dam	Rock Check Dam	—	X	X	—
			A00206010012	Check Dam	Rock Check Dam	—	X	X	—
A-SMA-2.5	Baseline	12-Jan-11	A00302010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00303010003	Berm	Earthen Berm	—	X	—	X
			A00303060005	Berm	Straw Wattles	—	X	X	—
			A00303060006	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
A-SMA-2.7	Baseline	12-Jan-11	A00402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	23-Aug-12	A00403010013	Berm	Earthen Berm	—	X	—	X
			A00403010014	Berm	Earthen Berm	—	X	—	X
			A00403010015	Berm	Earthen Berm	—	X	—	X
			A00403010016	Berm	Earthen Berm	—	X	—	X
A-SMA-2.8	Additional	n/a	A00501010004	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
	Baseline	12-Jan-11	A00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00503010002	Berm	Earthen Berm	—	X	—	X
A-SMA-3	Additional	n/a	A00603120017	Berm	Rock Berm	—	X	X	—
			A00606010013	Check Dam	Rock Check Dam	—	X	—	X
			A00606010014	Check Dam	Rock Check Dam	—	X	—	X
			A00606010015	Check Dam	Rock Check Dam	—	X	—	X
			A00606010016	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	1-Nov-10	A00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00604060002	Channel/Swale	Rip Rap	X	—	X	—
			A00606010003	Check Dam	Rock Check Dam	—	X	—	X
			A00606010009	Check Dam	Rock Check Dam	—	X	—	X
			A00606010010	Check Dam	Rock Check Dam	—	X	—	—
			A00606010011	Check Dam	Rock Check Dam	—	X	—	—
			A00606010012	Check Dam	Rock Check Dam	—	X	—	—
A-SMA-3.5	Baseline	12-Jan-11	A00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00703060002	Berm	Straw Wattles	—	X	—	X
A-SMA-4	Additional	n/a	A00803010009	Berm	Earthen Berm	—	X	—	X
	Baseline	12-Jan-11	A00801060008	Seed and Mulch	Erosion Control Blanket	X	—	—	—
			A00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00803010007	Berm	Earthen Berm	—	—	X	—
			A00803060002	Berm	Straw Wattles	—	X	X	—
			A00804050005	Channel/Swale	Water Bar	—	—	X	—
			A00804050006	Channel/Swale	Water Bar	—	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
A-SMA-4	Baseline	12-Jan-11	A00806010003	Check Dam	Rock Check Dam	—	X	X	—
			A00806010004	Check Dam	Rock Check Dam	—	X	—	X
A-SMA-6	Baseline	12-Jan-11	A00902010006	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			A00903010021	Berm	Earthen Berm	—	X	—	X
			A00904020007	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	—	X
			A00904060005	Channel/Swale	Rip Rap	X	—	—	X
			A00906010008	Check Dam	Rock Check Dam	—	X	—	X
			A00906010009	Check Dam	Rock Check Dam	—	X	—	X
			A00906010010	Check Dam	Rock Check Dam	—	X	—	X
			A00906010011	Check Dam	Rock Check Dam	—	X	—	X
			A00906010012	Check Dam	Rock Check Dam	—	X	—	X
			A00906010013	Check Dam	Rock Check Dam	—	X	X	—
			A00906010014	Check Dam	Rock Check Dam	—	X	—	X
			A00906010015	Check Dam	Rock Check Dam	—	X	—	X
			A00906010016	Check Dam	Rock Check Dam	—	X	—	X
			A00906010017	Check Dam	Rock Check Dam	—	X	—	X
			A00906010018	Check Dam	Rock Check Dam	—	X	—	X
			A00906010019	Check Dam	Rock Check Dam	—	X	—	X
			A00906010020	Check Dam	Rock Check Dam	—	X	—	X
B-SMA-0.5	Additional	n/a	B00101010011	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			B00103060010	Berm	Straw Wattles	—	X	X	—
			B00104060009	Channel/Swale	Rip Rap	X	—	X	—
	Baseline	8-Dec-10	B00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			B00102020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			B00103010006	Berm	Earthen Berm	—	X	X	—
			B00103010007	Berm	Earthen Berm	—	X	—	X
			B00104010005	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			B00104040003	Channel/Swale	Culvert	X	—	X	—
			B00106010008	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
B-SMA-1	Baseline	6-Dec-10	B00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			B00202020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			B00206010003	Check Dam	Rock Check Dam	—	X	X	—
			B00206010004	Check Dam	Rock Check Dam	—	X	X	—
			B00206010005	Check Dam	Rock Check Dam	—	X	—	X
			B00206010006	Check Dam	Rock Check Dam	—	X	—	X
			B00206010007	Check Dam	Rock Check Dam	—	X	—	X
CDB-SMA-0.15	Additional	n/a	C00101030012	Seed and Mulch	Hydromulch	X	—	—	—
			C00103010013	Berm	Earthen Berm	—	X	—	X
	Baseline	1-Nov-10	C00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00103120009	Berm	Rock Berm	—	X	X	—
			C00103120010	Berm	Rock Berm	—	X	X	—
			C00106010011	Check Dam	Rock Check Dam	—	X	X	—
			C00106030003	Check Dam	Juniper Bales	—	X	X	—
			C00106030005	Check Dam	Juniper Bales	—	X	—	X
			C00106030006	Check Dam	Juniper Bales	—	X	—	X
			C00106030007	Check Dam	Juniper Bales	—	X	—	X
CDB-SMA-0.25	Baseline	1-Nov-10	C00202010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00203010013	Berm	Earthen Berm	—	X	—	X
			C00204060009	Channel/Swale	Rip Rap	X	—	X	—
	Enhanced	20-Jul-12	C00203010017	Berm	Earthen Berm	—	X	—	X
			C00203010018	Berm	Earthen Berm	—	X	—	X
CDB-SMA-0.55	Baseline	13-Dec-10	C00302010008	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00303010011	Berm	Earthen Berm	—	X	—	X
			C00306010006	Check Dam	Rock Check Dam	—	X	X	—
			C00306010009	Check Dam	Rock Check Dam	—	X	—	X
			C00306010013	Check Dam	Rock Check Dam	—	X	X	—
			C00306010015	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDB-SMA-0.55	Baseline	13-Dec-10	C00306010016	Check Dam	Rock Check Dam	—	X	X	—
			C00306010017	Check Dam	Rock Check Dam	—	X	X	—
			C00306010018	Check Dam	Rock Check Dam	—	X	X	—
			C00306010019	Check Dam	Rock Check Dam	—	X	X	—
			C00306010020	Check Dam	Rock Check Dam	—	X	X	—
			C00306020012	Check Dam	Log Check Dam	—	X	—	X
			C00306020014	Check Dam	Log Check Dam	—	X	—	X
CDB-SMA-1	Baseline	22-Dec-10	C00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00402020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			C00402030007	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	—
			C00404060006	Channel/Swale	Rip Rap	X	—	X	—
			C00404060008	Channel/Swale	Rip Rap	—	X	—	X
			C00404060009	Channel/Swale	Rip Rap	—	X	X	—
			C00406010004	Check Dam	Rock Check Dam	—	X	—	X
			C00406010010	Check Dam	Rock Check Dam	—	X	X	—
			C00406010011	Check Dam	Rock Check Dam	—	X	X	—
			C00406010012	Check Dam	Rock Check Dam	—	X	X	—
			C00406010013	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	30-Jul-12	C00403010014	Berm	Earthen Berm	—	X	—	X
CDB-SMA-1.15	Baseline	1-Nov-10	C00501060009	Seed and Mulch	Erosion Control Blanket	X	—	—	X
			C00502010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00503010006	Berm	Earthen Berm	—	X	—	X
			C00504060007	Channel/Swale	Rip Rap	X	—	X	—
			C00504060008	Channel/Swale	Rip Rap	X	—	X	—
CDB-SMA-1.35	Baseline	1-Nov-10	C00601010008	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			C00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00602020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			C00603010006	Berm	Earthen Berm	—	X	—	X
			C00604060009	Channel/Swale	Rip Rap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDB-SMA-1.54	Additional	n/a	C00703010019	Berm	Earthen Berm	—	X	—	X
	Baseline	1-Nov-10	C00702010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00703010007	Berm	Earthen Berm	—	X	—	X
			C00703010008	Berm	Earthen Berm	—	X	—	X
			C00703010009	Berm	Earthen Berm	—	X	X	—
			C00704050014	Channel/Swale	Water Bar	X	—	—	—
			C00704060006	Channel/Swale	Rip Rap	X	—	—	X
			C00706020015	Check Dam	Log Check Dam	—	X	—	X
			C00706020016	Check Dam	Log Check Dam	—	X	—	X
CDB-SMA-1.55	Baseline	1-Nov-10	C00801010011	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			C00802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C00803010010	Berm	Earthen Berm	—	X	—	X
			C00803120009	Berm	Rock Berm	—	X	X	—
CDB-SMA-1.65	Additional	n/a	C00903010004	Berm	Earthen Berm	—	X	—	X
	Baseline	1-Nov-10	C00904010002	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			C00904060001	Channel/Swale	Rip Rap	X	—	X	—
CDB-SMA-4	Baseline	16-Nov-10	C01002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			C01004020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	—	X
			C01004060007	Channel/Swale	Rip Rap	X	—	—	X
			C01005010004	Sediment Trap and Basin	Sediment Trap	—	X	—	X
			C01006010006	Check Dam	Rock Check Dam	—	X	—	X
			C01006010008	Check Dam	Rock Check Dam	—	X	X	—
			C01006010009	Check Dam	Rock Check Dam	—	X	X	—
			C01006010010	Check Dam	Rock Check Dam	—	X	X	—
			C01006010011	Check Dam	Rock Check Dam	—	X	X	—
CDV-SMA-1.2	Additional	n/a	V00103060009	Berm	Straw Wattles	—	X	X	—
			V00103060010	Berm	Straw Wattles	—	X	X	—
			V00103060011	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-1.2	Baseline	15-Dec-10	V00101010003	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			V00101010004	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			V00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00103020008	Berm	Base Course Berm	—	X	—	X
			V00104060001	Channel/Swale	Rip Rap	X	—	—	X
			V00106010007	Check Dam	Rock Check Dam	—	X	—	X
CDV-SMA-1.3	Baseline	15-Dec-10	V00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00203020002	Berm	Base Course Berm	—	X	—	X
CDV-SMA-1.4	Additional	n/a	V00303010066	Berm	Earthen Berm	—	X	X	—
			V00303010067	Berm	Earthen Berm	—	X	—	X
			V00305020068	Sediment Trap and Basin	Sediment Basin	—	X	X	—
			V00306010039	Check Dam	Rock Check Dam	—	X	—	X
			V00306010040	Check Dam	Rock Check Dam	—	X	—	X
			V00306010043	Check Dam	Rock Check Dam	—	X	X	—
			V00306010044	Check Dam	Rock Check Dam	—	X	—	X
			V00306010057	Check Dam	Rock Check Dam	—	X	X	—
			V00306010058	Check Dam	Rock Check Dam	—	X	—	X
			V00306010059	Check Dam	Rock Check Dam	—	X	—	X
			V00306010060	Check Dam	Rock Check Dam	—	X	—	X
			V00306010061	Check Dam	Rock Check Dam	—	X	—	X
			V00306010062	Check Dam	Rock Check Dam	—	X	—	X
			V00306010063	Check Dam	Rock Check Dam	—	X	—	X
			V00306010064	Check Dam	Rock Check Dam	—	X	—	X
			V00306010065	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	15-Dec-10	V00301010025	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			V00302010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00302020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			V00303020017	Berm	Base Course Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-1.4	Baseline	15-Dec-10	V00303060019	Berm	Straw Wattles	—	X	X	—
			V00303060020	Berm	Straw Wattles	—	X	X	—
			V00303060022	Berm	Straw Wattles	—	X	—	X
			V00303060023	Berm	Straw Wattles	—	X	—	X
			V00303060024	Berm	Straw Wattles	—	X	—	X
			V00306010004	Check Dam	Rock Check Dam	—	X	X	—
			V00306010012	Check Dam	Rock Check Dam	—	X	—	X
			V00306010016	Check Dam	Rock Check Dam	—	X	X	—
			V00306010026	Check Dam	Rock Check Dam	—	X	X	—
CDV-SMA-1.45	Baseline	15-Dec-10	V00402020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
	Enhanced	18-Jul-12	V00403010004	Berm	Earthen Berm	—	X	—	X
CDV-SMA-1.7	Baseline	22-Dec-10	V00501010004	Seed and Mulch	Seed and Wood Mulch	X	—	—	X
			V00502010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00504060015	Channel/Swale	Rip Rap	X	—	—	—
			V00506010005	Check Dam	Rock Check Dam	—	X	—	X
			V00506010006	Check Dam	Rock Check Dam	—	X	—	X
			V00506010007	Check Dam	Rock Check Dam	—	X	—	X
			V00506010008	Check Dam	Rock Check Dam	—	X	X	—
			V00506010009	Check Dam	Rock Check Dam	—	X	X	—
			V00506010010	Check Dam	Rock Check Dam	—	X	X	—
			V00506010011	Check Dam	Rock Check Dam	—	X	—	X
			V00506010012	Check Dam	Rock Check Dam	—	X	—	X
			V00506010013	Check Dam	Rock Check Dam	—	X	X	—
			V00506010014	Check Dam	Rock Check Dam	—	X	X	—
CDV-SMA-2	Baseline	26-Apr-11	V00601010011	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			V00602010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00602020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			V00603010006	Berm	Earthen Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-2	Baseline	26-Apr-11	V00603010007	Berm	Earthen Berm	—	X	X	—
			V00603010008	Berm	Earthen Berm	—	X	X	—
			V00603010009	Berm	Earthen Berm	—	X	X	—
			V00603010010	Berm	Earthen Berm	—	X	X	—
			V00603090001	Berm	Curbing	—	X	X	—
			V00604060003	Channel/Swale	Rip Rap	X	—	—	X
			V00606010002	Check Dam	Rock Check Dam	—	X	—	X
			V00608020012	Cap	Rock Cap	X	—	—	X
CDV-SMA-2.3	Additional	n/a	V00703060017	Berm	Straw Wattles	—	X	—	X
			V00703060018	Berm	Straw Wattles	—	X	—	X
			V00706010016	Check Dam	Rock Check Dam	—	X	—	X
			V00706010019	Check Dam	Rock Check Dam	—	X	X	—
			V00706010020	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	15-Dec-10	V00702010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00702020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			V00703060007	Berm	Straw Wattles	—	X	X	—
			V00703060009	Berm	Straw Wattles	—	X	—	X
			V00703060010	Berm	Straw Wattles	—	X	—	X
			V00703060011	Berm	Straw Wattles	—	X	—	X
			V00703060012	Berm	Straw Wattles	—	X	—	X
			V00707010002	Gabion	Gabions	—	X	—	X
CDV-SMA-2.41	Baseline	15-Dec-10	V00802010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00803060002	Berm	Straw Wattles	—	X	—	X
			V00804040011	Channel/Swale	Culvert	X	—	X	—
			V00804060009	Channel/Swale	Rip Rap	X	—	X	—
			V00804060010	Channel/Swale	Rip Rap	X	—	X	—
			V00806030007	Check Dam	Juniper Bales	—	X	—	X
			V00806030008	Check Dam	Juniper Bales	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-2.42	Additional	n/a	V008A04060018	Channel/Swale	Rip Rap	X	—	X	—
			V008A04060019	Channel/Swale	Rip Rap	X	—	—	X
			V008A06010017	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	15-Dec-10	V008A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V008A03010006	Berm	Earthen Berm	—	X	—	X
			V008A03010016	Berm	Earthen Berm	—	X	—	X
			V008A03060012	Berm	Straw Wattles	—	X	X	—
			V008A04060002	Channel/Swale	Rip Rap	X	—	—	X
			V008A04060005	Channel/Swale	Rip Rap	X	—	—	X
			V008A06010004	Check Dam	Rock Check Dam	—	X	—	X
			V008A07010003	Gabion	Gabions	—	X	—	X
CDV-SMA-2.5	Additional	n/a	V00903060024	Berm	Straw Wattles	—	X	—	X
			V00903060025	Berm	Straw Wattles	—	X	—	X
			V00903060026	Berm	Straw Wattles	—	X	X	—
			V00903060027	Berm	Straw Wattles	—	X	X	—
			V00906010028	Check Dam	Rock Check Dam	—	X	X	—
			V00906010029	Check Dam	Rock Check Dam	—	X	X	—
			V00906010030	Check Dam	Rock Check Dam	—	X	X	—
			V00906010031	Check Dam	Rock Check Dam	—	X	X	—
			V00906010032	Check Dam	Rock Check Dam	—	X	—	X
			V00906010033	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	15-Dec-10	V00902010012	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V00903010011	Berm	Earthen Berm	—	X	—	X
			V00903060019	Berm	Straw Wattles	—	X	X	—
			V00903060020	Berm	Straw Wattles	—	X	—	X
			V00903060021	Berm	Straw Wattles	—	X	—	X
			V00904060005	Channel/Swale	Rip Rap	X	—	X	—
			V00904060006	Channel/Swale	Rip Rap	X	—	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-2.5	Baseline	15-Dec-10	V00904060007	Channel/Swale	Rip Rap	X	—	X	—
			V00904060009	Channel/Swale	Rip Rap	X	—	X	—
			V00906010015	Check Dam	Rock Check Dam	—	X	X	—
			V00906010016	Check Dam	Rock Check Dam	—	X	X	—
			V00906010017	Check Dam	Rock Check Dam	—	X	X	—
			V00906010018	Check Dam	Rock Check Dam	—	X	X	—
			V00906010022	Check Dam	Rock Check Dam	—	X	X	—
CDV-SMA-2.51	Additional	n/a	V009A03060028	Berm	Straw Wattles	—	X	X	—
	Baseline	15-Dec-10	V009A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V009A02020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			V009A03020005	Berm	Base Course Berm	—	X	X	—
			V009A03020012	Berm	Base Course Berm	—	X	X	—
			V009A03060007	Berm	Straw Wattles	—	X	X	—
			V009A03060008	Berm	Straw Wattles	—	X	X	—
			V009A03060009	Berm	Straw Wattles	—	X	X	—
			V009A03060010	Berm	Straw Wattles	—	X	X	—
			V009A03060011	Berm	Straw Wattles	—	X	X	—
			V009A03060018	Berm	Straw Wattles	—	X	X	—
			V009A03060019	Berm	Straw Wattles	—	X	X	—
			V009A03060020	Berm	Straw Wattles	—	X	X	—
			V009A03060022	Berm	Straw Wattles	—	X	X	—
			V009A03060023	Berm	Straw Wattles	—	X	X	—
			V009A03060024	Berm	Straw Wattles	—	X	X	—
			V009A03060025	Berm	Straw Wattles	—	X	X	—
			V009A03060026	Berm	Straw Wattles	—	X	X	—
			V009A03060027	Berm	Straw Wattles	—	X	X	—
			V009A06010003	Check Dam	Rock Check Dam	—	X	—	X
			V009A06010004	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-2.51	Baseline	15-Dec-10	V009A06010006	Check Dam	Rock Check Dam	—	X	X	—
			V009A06010013	Check Dam	Rock Check Dam	—	X	—	X
			V009A06010014	Check Dam	Rock Check Dam	—	X	—	X
			V009A06010015	Check Dam	Rock Check Dam	—	X	—	X
			V009A06010016	Check Dam	Rock Check Dam	—	X	X	—
			V009A06030017	Check Dam	Juniper Bales	—	X	X	—
CDV-SMA-3	Baseline	12-Jan-11	V01002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V01003120005	Berm	Rock Berm	—	X	X	—
			V01003120009	Berm	Rock Berm	—	X	—	X
			V01004060007	Channel/Swale	Rip Rap	X	—	X	—
			V01006010004	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	18-Jul-12	V01001010012	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			V01003010010	Berm	Earthen Berm	—	X	—	X
			V01003010011	Berm	Earthen Berm	—	X	—	X
CDV-SMA-4	Additional	n/a	V01101010005	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
	Baseline	12-Jan-11	V01102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V01103120002	Berm	Rock Berm	—	X	X	—
			V01106010003	Check Dam	Rock Check Dam	—	X	—	X
CDV-SMA-6.01	Additional	n/a	V01203060011	Berm	Straw Wattles	—	X	X	—
			V01203060012	Berm	Straw Wattles	—	X	X	—
	Baseline	12-Jan-11	V01202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V01203010006	Berm	Earthen Berm	—	X	X	—
			V01203020003	Berm	Base Course Berm	—	X	—	X
			V01203130004	Berm	S-Fence	—	X	—	X
			V01203130005	Berm	S-Fence	—	X	—	X
CDV-SMA-6.02	Baseline	12-Jan-11	V012A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	18-Jul-12	V012A01010005	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			V012A03010004	Berm	Earthen Berm	—	X	—	X
			V012A03010006	Berm	Earthen Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CDV-SMA-7	Baseline	15-Dec-10	V01302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V01303010006	Berm	Earthen Berm	—	X	X	—
			V01303010007	Berm	Earthen Berm	—	X	—	X
CDV-SMA-8	Additional	n/a	V01403010007	Berm	Earthen Berm	—	X	X	—
			V01403010008	Berm	Earthen Berm	—	X	X	—
	Baseline	22-Dec-10	V01402020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			V01402030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			V01406010003	Check Dam	Rock Check Dam	—	X	X	—
			V01406010004	Check Dam	Rock Check Dam	—	X	X	—
			V01406010005	Check Dam	Rock Check Dam	—	X	X	—
			V01406010006	Check Dam	Rock Check Dam	—	X	X	—
CDV-SMA-8.5	Baseline	15-Dec-10	V01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V01503010004	Berm	Earthen Berm	—	X	—	X
			V01503010005	Berm	Earthen Berm	—	X	X	—
CDV-SMA-9.05	Baseline	22-Dec-10	V01602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			V01603010002	Berm	Earthen Berm	—	X	—	X
			V01603010003	Berm	Earthen Berm	—	X	—	X
			V01603010004	Berm	Earthen Berm	—	X	X	—
CHQ-SMA-0.5	Baseline	12-Jan-11	Q00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00103020002	Berm	Base Course Berm	—	X	—	X
			Q00104050006	Channel/Swale	Water Bar	—	X	X	—
			Q00104050007	Channel/Swale	Water Bar	—	X	X	—
			Q00106010003	Check Dam	Rock Check Dam	—	X	X	—
			Q00106010004	Check Dam	Rock Check Dam	—	X	X	—
			Q00106010005	Check Dam	Rock Check Dam	—	X	X	—
CHQ-SMA-1.01	Baseline	12-Jan-11	Q00201020001	Seed and Mulch	Seed and Gravel Mulch	X	—	X	—
			Q00202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00203020007	Berm	Base Course Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CHQ-SMA-1.01	Baseline	12-Jan-11	Q00203060003	Berm	Straw Wattles	—	X	—	X
			Q00203060005	Berm	Straw Wattles	—	X	—	X
CHQ-SMA-1.02	Baseline	12-Jan-11	Q002A06010002	Check Dam	Rock Check Dam	—	X	—	X
			Q002A06010003	Check Dam	Rock Check Dam	—	X	—	X
			Q002A06010007	Check Dam	Rock Check Dam	—	X	X	—
			Q002A06010009	Check Dam	Rock Check Dam	—	X	—	X
			Q002A08030004	Cap	Concrete/Asphalt Cap	X	—	—	—
	Enhanced	23-Oct-12	Q002A03010010	Berm	Earthen Berm	—	X	—	X
			Q002A03010011	Berm	Earthen Berm	—	X	—	X
			Q002A03010012	Berm	Earthen Berm	—	X	—	X
			Q002A03010013	Berm	Earthen Berm	—	X	X	—
CHQ-SMA-1.03	Baseline	12-Jan-11	Q002B02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q002B02030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	X
			Q002B04060006	Channel/Swale	Rip Rap	X	—	X	—
			Q002B04060007	Channel/Swale	Rip Rap	X	—	—	X
			Q002B04060009	Channel/Swale	Rip Rap	X	—	—	X
			Q002B04060010	Channel/Swale	Rip Rap	X	—	—	X
			Q002B06010004	Check Dam	Rock Check Dam	—	X	—	X
			Q002B06010005	Check Dam	Rock Check Dam	—	X	—	X
			Q002B06010008	Check Dam	Rock Check Dam	—	X	—	X
			Q002B06010011	Check Dam	Rock Check Dam	—	X	—	X
			Q002B08030003	Cap	Concrete/Asphalt Cap	X	—	—	X
CHQ-SMA-2	Baseline	12-Jan-11	Q00302010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00302020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			Q00303020001	Berm	Base Course Berm	—	X	X	—
			Q00303020006	Berm	Base Course Berm	—	X	X	—
			Q00303040015	Berm	Asphalt Berm	—	X	X	—
			Q00303060016	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CHQ-SMA-2	Baseline	12-Jan-11	Q00303060017	Berm	Straw Wattles	—	X	X	—
			Q00303060018	Berm	Straw Wattles	—	X	X	—
			Q00303060019	Berm	Straw Wattles	—	X	X	—
			Q00303060020	Berm	Straw Wattles	—	X	X	—
			Q00303060021	Berm	Straw Wattles	—	X	X	—
			Q00304060002	Channel/Swale	Rip Rap	X	—	X	—
			Q00304060007	Channel/Swale	Rip Rap	X	—	X	—
			Q00306010003	Check Dam	Rock Check Dam	—	X	—	X
			Q00306010008	Check Dam	Rock Check Dam	—	X	—	X
			Q00306010009	Check Dam	Rock Check Dam	—	X	X	—
			Q00306010010	Check Dam	Rock Check Dam	—	X	X	—
			Q00306010011	Check Dam	Rock Check Dam	—	X	X	—
			Q00306010012	Check Dam	Rock Check Dam	—	X	X	—
			Q00306010013	Check Dam	Rock Check Dam	—	X	X	—
			Q00306010014	Check Dam	Rock Check Dam	—	X	X	—
CHQ-SMA-3.05	Additional	n/a	Q00403010008	Berm	Earthen Berm	—	X	—	X
	Baseline	12-Jan-11	Q00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00403060002	Berm	Straw Wattles	—	X	X	—
			Q00403060003	Berm	Straw Wattles	—	X	X	—
			Q00406010006	Check Dam	Rock Check Dam	—	X	—	X
			Q00406010007	Check Dam	Rock Check Dam	—	X	—	X
CHQ-SMA-4	Additional	n/a	Q00503010016	Berm	Earthen Berm	—	X	—	X
			Q00503010017	Berm	Earthen Berm	—	X	—	X
			Q00503010018	Berm	Earthen Berm	—	X	—	X
	Baseline	12-Jan-11	Q00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00503060006	Berm	Straw Wattles	—	X	X	—
			Q00506010003	Check Dam	Rock Check Dam	—	X	—	X
			Q00506010004	Check Dam	Rock Check Dam	—	X	—	X
			Q00506010005	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CHQ-SMA-4.1	Baseline	12-Jan-11	Q00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00603060004	Berm	Straw Wattles	—	X	X	—
			Q00603060005	Berm	Straw Wattles	—	X	X	—
			Q00603060006	Berm	Straw Wattles	—	X	X	—
			Q00603060007	Berm	Straw Wattles	—	X	X	—
			Q00606010002	Check Dam	Rock Check Dam	—	X	—	X
			Q00606010003	Check Dam	Rock Check Dam	—	X	—	X
CHQ-SMA-4.5	Additional	n/a	Q00703010009	Berm	Earthen Berm	—	X	—	X
	Baseline	12-Jan-11	Q00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00703060004	Berm	Straw Wattles	—	X	—	X
			Q00703060008	Berm	Straw Wattles	—	X	—	X
			Q00706010002	Check Dam	Rock Check Dam	—	X	—	X
			Q00706010003	Check Dam	Rock Check Dam	—	X	—	X
CHQ-SMA-5.05	Baseline	1-Nov-10	Q00802010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00803020006	Berm	Base Course Berm	—	X	—	X
			Q00804060002	Channel/Swale	Rip Rap	X	—	—	X
			Q00804060005	Channel/Swale	Rip Rap	X	—	X	—
			Q00804060007	Channel/Swale	Rip Rap	X	—	—	X
			Q00806010003	Check Dam	Rock Check Dam	—	X	—	X
CHQ-SMA-6	Additional	n/a	Q00901010029	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			Q00903060033	Berm	Straw Wattles	—	X	—	X
			Q00903060034	Berm	Straw Wattles	—	X	—	X
			Q00903060035	Berm	Straw Wattles	—	X	—	X
			Q00903120030	Berm	Rock Berm	—	X	X	—
			Q00903120031	Berm	Rock Berm	—	X	X	—
			Q00903120032	Berm	Rock Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
CHQ-SMA-6	Baseline	12-Jan-11	Q00901030028	Seed and Mulch	Hydromulch	X	—	—	—
			Q00901060006	Seed and Mulch	Erosion Control Blanket	X	—	—	X
			Q00902010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q00903010017	Berm	Earthen Berm	—	X	—	X
			Q00903060014	Berm	Straw Wattles	—	X	—	X
			Q00906010001	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010002	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010007	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010008	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010011	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010018	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010019	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010020	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010021	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010022	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010023	Check Dam	Rock Check Dam	—	X	—	X
			Q00906010024	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010025	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010026	Check Dam	Rock Check Dam	—	X	X	—
			Q00906010027	Check Dam	Rock Check Dam	—	X	X	—
CHQ-SMA-7.1	Additional	n/a	Q01003010010	Berm	Earthen Berm	—	X	X	—
			Q01003010011	Berm	Earthen Berm	—	X	X	—
	Baseline	12-Jan-11	Q01002010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			Q01004060009	Channel/Swale	Rip Rap	X	—	X	—
			Q01006010003	Check Dam	Rock Check Dam	—	X	—	X
			Q01006010008	Check Dam	Rock Check Dam	—	X	X	—
DP-SMA-0.3	Additional	n/a	D00102010015	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00103010014	Berm	Earthen Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
DP-SMA-0.3	Baseline	29-Mar-11	D00102020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			D00103020011	Berm	Base Course Berm	—	X	—	X
			D00103120013	Berm	Rock Berm	—	X	—	X
			D00106010008	Check Dam	Rock Check Dam	—	X	—	X
			D00106010009	Check Dam	Rock Check Dam	—	X	—	X
			D00107010001	Gabion	Gabions	—	X	—	X
			D00107020006	Gabion	Gabion Blanket	X	—	X	—
	Enhanced	In Progress	D00103010022	Berm	Earthen Berm	—	X	X	—
			D00103010023	Berm	Earthen Berm	—	X	—	X
			D00103120020	Berm	Rock Berm	—	X	X	—
			D00103120021	Berm	Rock Berm	—	X	—	X
			D00106010016	Check Dam	Rock Check Dam	—	X	X	—
			D00106010017	Check Dam	Rock Check Dam	—	X	X	—
			D00106010018	Check Dam	Rock Check Dam	—	X	—	X
			D00106010019	Check Dam	Rock Check Dam	—	X	—	X
			D00106010024	Check Dam	Rock Check Dam	—	X	X	—
DP-SMA-0.4	Additional	n/a	D00203060008	Berm	Straw Wattles	—	X	—	X
	Baseline	7-Dec-10	D00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00203060005	Berm	Straw Wattles	—	X	X	—
			D00204040003	Channel/Swale	Culvert	X	—	X	—
			D00204060006	Channel/Swale	Rip Rap	—	X	X	—
			D00206030004	Check Dam	Juniper Bales	—	X	X	—
DP-SMA-0.6	Baseline	29-Mar-11	D00303010013	Berm	Earthen Berm	—	X	—	X
			D00303010014	Berm	Earthen Berm	—	X	—	X
			D00303020011	Berm	Base Course Berm	—	X	X	—
			D00304010004	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			D00304040005	Channel/Swale	Culvert	X	—	X	—
			D00305020010	Sediment Trap and Basin	Sediment Basin	—	X	—	X
			D00308020012	Cap	Rock Cap	X	—	—	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
DP-SMA-1	Additional	n/a	D00403010011	Berm	Earthen Berm	—	X	—	X
			D00403020014	Berm	Base Course Berm	—	X	X	—
			D00403060013	Berm	Straw Wattles	—	X	X	—
			D00403120012	Berm	Rock Berm	—	X	—	X
	Baseline	7-Dec-10	D00402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00403010002	Berm	Earthen Berm	—	X	X	—
			D00403120009	Berm	Rock Berm	—	X	—	X
			D00404060004	Channel/Swale	Rip Rap	X	—	X	—
			D00406030006	Check Dam	Juniper Bales	—	X	—	X
			D00406030007	Check Dam	Juniper Bales	—	X	—	X
			D00406030008	Check Dam	Juniper Bales	—	X	—	X
DP-SMA-2	Additional	n/a	D00503010011	Berm	Earthen Berm	—	X	—	X
	Baseline	1-Nov-10	D00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00502020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			D00503020003	Berm	Base Course Berm	—	X	X	—
			D00506030007	Check Dam	Juniper Bales	—	X	—	X
			D00506030009	Check Dam	Juniper Bales	—	X	—	X
DP-SMA-2.35	Additional	n/a	D00603060006	Berm	Straw Wattles	—	X	X	—
	Baseline	7-Dec-10	D00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00603020002	Berm	Base Course Berm	—	X	—	X
			D00604060004	Channel/Swale	Rip Rap	X	—	—	X
DP-SMA-3	Baseline	12-Jan-11	D00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00703120015	Berm	Rock Berm	—	X	—	X
			D00706010008	Check Dam	Rock Check Dam	—	X	—	X
			D00706010009	Check Dam	Rock Check Dam	—	X	—	X
			D00706010010	Check Dam	Rock Check Dam	—	X	—	X
			D00706010011	Check Dam	Rock Check Dam	—	X	—	X
			D00706010012	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
DP-SMA-3	Enhanced	30-Aug-12	D00703010016	Berm	Earthen Berm	—	X	—	X
			D00703010017	Berm	Earthen Berm	—	X	—	X
			D00703010018	Berm	Earthen Berm	—	X	—	X
			D00703010019	Berm	Earthen Berm	—	X	—	X
			D00703010020	Berm	Earthen Berm	—	X	—	X
			D00703010021	Berm	Earthen Berm	—	X	—	X
			D00703010022	Berm	Earthen Berm	—	X	—	X
DP-SMA-4	Additional	n/a	D00806010008	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	7-Dec-10	D00801010002	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			D00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			D00802020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			D00803010006	Berm	Earthen Berm	—	X	X	—
			D00803010007	Berm	Earthen Berm	—	X	—	X
F-SMA-2	Additional	n/a	F00103010017	Berm	Earthen Berm	—	X	—	X
	Baseline	22-Dec-10	F00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			F00104010001	Channel/Swale	Earthen Channel/Swale	X	—	X	—
	Enhanced	In Progress	F00101040016	Seed and Mulch	Seeding	X	—	—	—
			F00103010010	Berm	Earthen Berm	—	X	—	X
			F00103010011	Berm	Earthen Berm	—	X	—	X
			F00103010012	Berm	Earthen Berm	—	X	—	X
			F00103010013	Berm	Earthen Berm	—	X	—	X
			F00103010014	Berm	Earthen Berm	—	X	—	X
			F00103010015	Berm	Earthen Berm	—	X	—	X
LA-SMA-0.85	Baseline	1-Nov-10	L00102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00102030007	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			L00103090006	Berm	Curbing	—	X	X	—
			L00107010004	Gabion	Gabions	—	X	—	X
	Enhanced	23-Oct-12	L00103010008	Berm	Earthen Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-0.9	Additional	n/a	L00201060019	Seed and Mulch	Erosion Control Blanket	X	—	—	—
			L00203010013	Berm	Earthen Berm	—	X	—	X
			L00203010014	Berm	Earthen Berm	—	X	—	X
			L00203010015	Berm	Earthen Berm	—	X	—	X
			L00203010016	Berm	Earthen Berm	—	X	—	X
			L00203010017	Berm	Earthen Berm	—	X	—	X
			L00203010018	Berm	Earthen Berm	—	X	—	X
	Baseline	9-Dec-10	L00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00203090002	Berm	Curbing	—	X	X	—
			L00203090003	Berm	Curbing	—	X	X	—
			L00204040004	Channel/Swale	Culvert	X	—	X	—
LA-SMA-1	Additional	n/a	L00303060016	Berm	Straw Wattles	—	X	X	—
			L00303060017	Berm	Straw Wattles	—	X	X	—
			L00303100015	Berm	Gravel Bags	—	X	X	—
			L00303120018	Berm	Rock Berm	—	X	—	X
			L00304060023	Channel/Swale	Rip Rap	X	—	X	—
			L00304060024	Channel/Swale	Rip Rap	X	—	X	—
			L00306010014	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	9-Dec-10	L00302010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00304020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			L00304040004	Channel/Swale	Culvert	X	—	X	—
	Enhanced	In Progress	L00303010019	Berm	Earthen Berm	—	X	—	X
			L00304030020	Channel/Swale	Rock Channel/Swale	X	—	X	—
			L00304040021	Channel/Swale	Culvert	X	—	X	—
			L00304060022	Channel/Swale	Rip Rap	X	—	X	—
LA-SMA-1.1	Additional	n/a	L00404060005	Channel/Swale	Rip Rap	X	—	X	—
	Baseline	8-Dec-10	L00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00404060003	Channel/Swale	Rip Rap	X	—	—	X
			L00406010004	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-1.25	Baseline	1-Nov-10	L00502020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L00503020001	Berm	Base Course Berm	—	X	X	—
	Enhanced	30-Aug-12	L00503010007	Berm	Earthen Berm	—	X	—	X
LA-SMA-10.11	Baseline	8-Dec-10	L03004060003	Channel/Swale	Rip Rap	X	—	—	X
			L03004060009	Channel/Swale	Rip Rap	X	—	—	X
			L03006010001	Check Dam	Rock Check Dam	—	X	—	X
LA-SMA-10.12	Additional	n/a	L030A03010025	Berm	Earthen Berm	—	X	—	X
	Baseline	26-Apr-11	L030A03120005	Berm	Rock Berm	—	X	X	—
			L030A03120006	Berm	Rock Berm	—	X	X	—
			L030A03120009	Berm	Rock Berm	—	X	—	X
			L030A03120012	Berm	Rock Berm	—	X	X	—
			L030A03120015	Berm	Rock Berm	—	X	—	X
			L030A03120016	Berm	Rock Berm	—	X	—	X
			L030A03120017	Berm	Rock Berm	—	X	X	—
			L030A03120019	Berm	Rock Berm	—	X	X	—
			L030A03120020	Berm	Rock Berm	—	X	—	X
			L030A03120021	Berm	Rock Berm	—	X	—	X
			L030A04060007	Channel/Swale	Rip Rap	X	—	—	X
			L030A06010001	Check Dam	Rock Check Dam	—	X	X	—
			L030A06010002	Check Dam	Rock Check Dam	—	X	X	—
			L030A06010003	Check Dam	Rock Check Dam	—	X	—	X
			L030A06010008	Check Dam	Rock Check Dam	—	X	X	—
			L030A06010011	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	In Progress	L030A02010031	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L030A03010026	Berm	Earthen Berm	—	X	X	—
			L030A03010027	Berm	Earthen Berm	—	X	—	X
			L030A03060028	Berm	Straw Wattles	—	X	X	—
			L030A03060029	Berm	Straw Wattles	—	X	—	X
			L030A03120030	Berm	Rock Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-2.1	Additional	n/a	L00601060009	Seed and Mulch	Erosion Control Blanket	X	—	—	—
	Baseline	26-Apr-11	L00602020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L00603030007	Berm	Log Berm	—	X	—	X
			L00603080002	Berm	Retaining Wall	—	X	X	—
			L00604040003	Channel/Swale	Culvert	X	—	X	—
			L00604060006	Channel/Swale	Rip Rap	X	—	—	X
LA-SMA-2.3	Additional	n/a	L00703060005	Berm	Straw Wattles	—	X	X	—
	Baseline	8-Dec-10	L00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00703060004	Berm	Straw Wattles	—	X	—	X
			L00703080002	Berm	Retaining Wall	—	X	X	—
LA-SMA-3.1	Baseline	1-Nov-10	L00802010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00802020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L00802030005	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	X	—	X
			L00804040004	Channel/Swale	Culvert	X	—	X	—
LA-SMA-3.9	Additional	n/a	L00903060004	Berm	Straw Wattles	—	X	—	X
	Baseline	8-Dec-10	L00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L00904040002	Channel/Swale	Culvert	X	—	X	—
LA-SMA-4.1	Additional	n/a	L01006010009	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	1-Nov-10	L01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L01004060004	Channel/Swale	Rip Rap	X	—	X	—
			L01004060005	Channel/Swale	Rip Rap	X	—	X	—
			L01004060007	Channel/Swale	Rip Rap	X	—	X	—
LA-SMA-4.2	Baseline	1-Nov-10	L01102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L01104050003	Channel/Swale	Water Bar	X	—	X	—
			L01104050004	Channel/Swale	Water Bar	X	—	X	—
			L01104050006	Channel/Swale	Water Bar	X	—	X	—
			L01104050007	Channel/Swale	Water Bar	X	—	X	—
			L01106010002	Check Dam	Rock Check Dam	—	X	—	X
			L01106010005	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-5.01	Additional	n/a	L01203060011	Berm	Straw Wattles	—	X	X	—
	Baseline	8-Dec-10	L01202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
		8-Dec-10	L01203010004	Berm	Earthen Berm	—	X	—	X
		8-Dec-10	L01203010007	Berm	Earthen Berm	—	X	X	—
		16-Dec-10	L01203120010	Berm	Rock Berm	—	X	X	—
		16-Dec-10	L01204050008	Channel/Swale	Water Bar	X	—	X	—
		16-Dec-10	L01204050009	Channel/Swale	Water Bar	X	—	X	—
		8-Dec-10	L01204060006	Channel/Swale	Rip Rap	X	—	—	X
LA-SMA-5.02	Additional	n/a	L012A03060010	Berm	Straw Wattles	—	X	—	X
			L012A03060011	Berm	Straw Wattles	—	X	—	X
	Baseline	26-Apr-11	L012A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L012A03010002	Berm	Earthen Berm	—	X	X	—
			L012A03060005	Berm	Straw Wattles	—	X	—	X
			L012A03060006	Berm	Straw Wattles	—	X	—	X
LA-SMA-5.2	Additional	n/a	L01306010003	Check Dam	Rock Check Dam	—	X	—	X
			L01306010004	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	26-Apr-11	L01302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
LA-SMA-5.31	Baseline	8-Dec-10	L01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	27-Jul-12	L01503120010	Berm	Rock Berm	—	X	X	—
			L01503120011	Berm	Rock Berm	—	X	—	X
LA-SMA-5.33	Baseline	8-Dec-10	L01602020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
	Enhanced	30-Jul-12	L01601030010	Seed and Mulch	Hydromulch	X	—	—	—
			L01601040013	Seed and Mulch	Seeding	X	—	—	—
			L01603010009	Berm	Earthen Berm	—	X	X	—
LA-SMA-5.35	Enhanced	In Progress	L01408030010	Cap	Concrete/Asphalt Cap	X	—	X	—
			L01408030014	Cap	Concrete/Asphalt Cap	X	—	—	X
			L01408040011	Cap	Metal Cap	X	—	X	—
			L01408040012	Cap	Metal Cap	X	—	X	—
			L01408040013	Cap	Metal Cap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-5.361	Additional	n/a	L01706010009	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	29-Mar-11	L01701010008	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			L01702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L01703010002	Berm	Earthen Berm	—	X	X	—
LA-SMA-5.362	Additional	n/a	L017A03120009	Berm	Rock Berm	—	X	X	—
	Baseline	29-Mar-11	L017A01010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			L017A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L017A03010005	Berm	Earthen Berm	—	X	—	X
			L017A03010008	Berm	Earthen Berm	—	X	X	—
			L017A06010006	Check Dam	Rock Check Dam	—	X	—	X
			L017A06030002	Check Dam	Juniper Bales	—	X	X	—
LA-SMA-5.51	Baseline	29-Mar-11	L01802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L01802020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L01803010006	Berm	Earthen Berm	—	X	X	—
			L01803010007	Berm	Earthen Berm	—	X	—	X
			L01803010008	Berm	Earthen Berm	—	X	—	X
			L01807010003	Gabion	Gabions	X	—	—	X
LA-SMA-5.52	Baseline	29-Mar-11	L018A01010006	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			L018A02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L018A03010003	Berm	Earthen Berm	—	X	X	—
			L018A03010004	Berm	Earthen Berm	—	X	—	X
			L018A04060005	Channel/Swale	Rip Rap	X	—	X	—
			L018A06010002	Check Dam	Rock Check Dam	—	X	X	—
LA-SMA-5.53	Baseline	29-Mar-11	L018B01010003	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			L018B02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L018B03010002	Berm	Earthen Berm	—	X	—	X
			L018B03060004	Berm	Straw Wattles	—	X	X	—
			L018B03060005	Berm	Straw Wattles	—	X	X	—
			L018B03060006	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-5.54	Baseline	29-Mar-11	L018C02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			L018C03010002	Berm	Earthen Berm	—	X	X	—
			L018C03060003	Berm	Straw Wattles	—	X	—	X
LA-SMA-5.91	Baseline	1-Nov-10	L01901060012	Seed and Mulch	Erosion Control Blanket	X	—	—	—
			L01902010006	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L01905020001	Sediment Trap and Basin	Sediment Basin	—	X	X	X
LA-SMA-5.92	Baseline	1-Nov-10	L019A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L019A03010005	Berm	Earthen Berm	—	X	X	X
			L019A03030003	Berm	Log Berm	—	X	—	X
			L019A05020006	Sediment Trap and Basin	Sediment Basin	—	X	—	X
LA-SMA-6.25	Additional	n/a	L02003060006	Berm	Straw Wattles	—	X	—	X
	Baseline	1-Nov-10	L02002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02003040002	Berm	Asphalt Berm	—	X	X	—
LA-SMA-6.27	Additional	n/a	L02103060009	Berm	Straw Wattles	—	X	—	X
			L02103060010	Berm	Straw Wattles	—	X	—	X
	Baseline	1-Nov-10	L02102010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02103040001	Berm	Asphalt Berm	—	X	X	—
LA-SMA-6.3	Baseline	7-Dec-10	L02202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02203040005	Berm	Asphalt Berm	—	X	X	—
			L02206010001	Check Dam	Rock Check Dam	—	X	—	X
			L02206010004	Check Dam	Rock Check Dam	—	X	—	X
LA-SMA-6.31	Additional	n/a	L022A03060007	Berm	Straw Wattles	—	X	—	X
	Baseline	7-Dec-10	L022A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L022A03040002	Berm	Asphalt Berm	—	X	X	—
			L022A04030003	Channel/Swale	Rock Channel/Swale	X	—	X	—
			L022A06010005	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-6.32	Additional	n/a	L02303060005	Berm	Straw Wattles	—	X	—	X
	Baseline	7-Dec-10	L02302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02303040002	Berm	Asphalt Berm	—	X	X	—
			L02303060003	Berm	Straw Wattles	—	X	—	X
LA-SMA-6.34	Baseline	7-Dec-10	L02402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02403040003	Berm	Asphalt Berm	—	X	X	—
			L02406010005	Check Dam	Rock Check Dam	—	X	—	X
LA-SMA-6.36	Baseline	7-Dec-10	L02502010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02503010008	Berm	Earthen Berm	—	X	—	X
			L02503010009	Berm	Earthen Berm	—	X	X	—
			L02503090004	Berm	Curbing	—	X	X	—
LA-SMA-6.38	Additional	n/a	L02603060009	Berm	Straw Wattles	—	X	X	—
			L02603060010	Berm	Straw Wattles	—	X	X	—
	Baseline	7-Dec-10	L02602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02603060004	Berm	Straw Wattles	—	X	—	X
			L02604060006	Channel/Swale	Rip Rap	X	—	X	—
LA-SMA-6.395	Baseline	7-Dec-10	L02702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02703010004	Berm	Earthen Berm	—	X	—	X
			L02703010005	Berm	Earthen Berm	—	X	X	—
LA-SMA-6.5	Additional	n/a	L02801010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
	Baseline	7-Dec-10	L02802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
		7-Dec-10	L02803010004	Berm	Earthen Berm	—	X	X	—
		16-Dec-10	L02803010006	Berm	Earthen Berm	—	X	X	—
		7-Dec-10	L02806010002	Check Dam	Rock Check Dam	—	X	—	X
LA-SMA-9	Baseline	29-Mar-11	L02902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			L02903010012	Berm	Earthen Berm	—	X	—	X
			L02903010013	Berm	Earthen Berm	—	X	—	X
			L02903010014	Berm	Earthen Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
LA-SMA-9	Baseline	29-Mar-11	L02903080005	Berm	Retaining Wall	—	X	X	—
			L02904050009	Channel/Swale	Water Bar	X	—	X	—
			L02904050010	Channel/Swale	Water Bar	X	—	X	—
			L02904050011	Channel/Swale	Water Bar	X	—	X	—
M-SMA-1	Baseline	1-Nov-10	M00102010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00102020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M00107010001	Gabion	Gabions	—	X	X	—
			M00107010006	Gabion	Gabions	—	X	—	X
	Enhanced	In Progress	M00107010008	Gabion	Gabions	—	X	—	X
M-SMA-1.2	Baseline	13-Dec-10	M00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00202020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M00204060008	Channel/Swale	Rip Rap	X	—	X	—
			M00206010003	Check Dam	Rock Check Dam	—	X	—	X
			M00206010004	Check Dam	Rock Check Dam	—	X	—	X
M-SMA-1.21	Additional	n/a	M002A03010006	Berm	Earthen Berm	—	X	—	X
	Baseline	13-Dec-10	M002A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M002A03020002	Berm	Base Course Berm	—	X	X	—
			M002A03120005	Berm	Rock Berm	—	X	—	X
			M002A04060003	Channel/Swale	Rip Rap	X	—	—	X
			M002A06010004	Check Dam	Rock Check Dam	—	X	—	X
M-SMA-1.22	Baseline	12-Jan-11	M002B02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M002B04050002	Channel/Swale	Water Bar	X	—	X	—
			M002B06010003	Check Dam	Rock Check Dam	—	X	—	X
			M002B06010004	Check Dam	Rock Check Dam	—	X	—	X
			M002B06010005	Check Dam	Rock Check Dam	—	X	—	X
			M002B06010006	Check Dam	Rock Check Dam	—	X	—	X
			M002B06010007	Check Dam	Rock Check Dam	—	X	—	X
			M002B06010008	Check Dam	Rock Check Dam	—	X	—	X
			M002B06010009	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
M-SMA-10	Baseline	13-Dec-10	M01202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01202020011	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M01204060004	Channel/Swale	Rip Rap	X	—	X	—
			M01204060007	Channel/Swale	Rip Rap	X	—	—	X
			M01204060008	Channel/Swale	Rip Rap	X	—	—	X
			M01206010001	Check Dam	Rock Check Dam	—	X	—	X
			M01206010005	Check Dam	Rock Check Dam	—	X	—	X
			M01206010006	Check Dam	Rock Check Dam	—	X	—	X
			M01206010009	Check Dam	Rock Check Dam	—	X	—	X
			M01206010010	Check Dam	Rock Check Dam	—	X	—	X
M-SMA-10.01	Additional	n/a	M012A02010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Baseline	13-Dec-10	M012A06010003	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	25-Sep-12	M012A03010006	Berm	Earthen Berm	—	X	—	X
			M012A03010007	Berm	Earthen Berm	—	X	—	X
M-SMA-10.3	Baseline	26-Apr-11	M01302010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01302020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M01303010011	Berm	Earthen Berm	—	X	X	—
			M01303010012	Berm	Earthen Berm	—	X	—	X
			M01303100013	Berm	Gravel Bags	—	X	X	—
			M01306010010	Check Dam	Rock Check Dam	—	X	—	X
M-SMA-11.1	Additional	n/a	M01403100007	Berm	Gravel Bags	—	X	X	—
	Baseline	13-Dec-10	M01402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01402020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M01403090005	Berm	Curbing	—	X	X	—
			M01404060001	Channel/Swale	Rip Rap	X	—	X	—
			M01406020006	Check Dam	Log Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
M-SMA-12	Baseline	29-Mar-10	M01502010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01502020003	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M01503090004	Berm	Curbing	—	X	X	—
			M01506020001	Check Dam	Log Check Dam	—	X	—	X
			M01506020006	Check Dam	Log Check Dam	—	X	—	X
			M01506020007	Check Dam	Log Check Dam	—	X	—	X
M-SMA-12.5	Additional	n/a	M01601030011	Seed and Mulch	Hydromulch	X	—	—	—
			M01603010009	Berm	Earthen Berm	—	X	X	—
			M01603010010	Berm	Earthen Berm	—	X	—	X
	Baseline	1-Nov-10	M01602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
M-SMA-12.6	Additional	n/a	M01701010013	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			M01703010010	Berm	Earthen Berm	—	X	X	—
			M01703060012	Berm	Straw Wattles	—	X	—	X
	Baseline	26-Apr-11	M01702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01703020005	Berm	Base Course Berm	—	X	X	—
			M01703020006	Berm	Base Course Berm	—	X	X	—
			M01703020007	Berm	Base Course Berm	—	X	X	—
			M01706010008	Check Dam	Rock Check Dam	—	X	—	X
M-SMA-12.7	Additional	n/a	M01803060010	Berm	Straw Wattles	—	X	X	—
			M01803060011	Berm	Straw Wattles	—	X	X	—
	Baseline	13-Dec-10	M01802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01803010008	Berm	Earthen Berm	—	X	X	—
			M01806020009	Check Dam	Log Check Dam	—	X	—	X
M-SMA-12.8	Additional	n/a	M01903060008	Berm	Straw Wattles	—	X	—	X
			M01903060009	Berm	Straw Wattles	—	X	—	X
	Baseline	13-Dec-10	M01902010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01903010003	Berm	Earthen Berm	—	X	X	—
			M01906020006	Check Dam	Log Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
M-SMA-12.9	Additional	n/a	M02001030009	Seed and Mulch	Hydromulch	X	—	—	—
			M02003010008	Berm	Earthen Berm	—	X	X	—
			M02003060010	Berm	Straw Wattles	—	X	—	X
			M02003060011	Berm	Straw Wattles	—	X	—	X
	Baseline	13-Dec-10	M02002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M02003010005	Berm	Earthen Berm	—	X	X	—
M-SMA-12.92	Baseline	1-Nov-10	M02102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M02105010001	Sediment Trap and Basin	Sediment Trap	—	X	—	X
			M02105010003	Sediment Trap and Basin	Sediment Trap	—	X	—	X
			M02105010004	Sediment Trap and Basin	Sediment Trap	—	X	X	—
M-SMA-13	Additional	n/a	M02203010013	Berm	Earthen Berm	—	X	X	—
	Baseline	13-Dec-10	M02201010012	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			M02202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M02206010008	Check Dam	Rock Check Dam	—	X	X	—
			M02206010009	Check Dam	Rock Check Dam	—	X	X	—
			M02206010010	Check Dam	Rock Check Dam	—	X	X	—
			M02206010011	Check Dam	Rock Check Dam	—	X	X	—
			M02206020001	Check Dam	Log Check Dam	—	X	—	X
			M02206020003	Check Dam	Log Check Dam	—	X	—	X
M-SMA-3	Baseline	26-Apr-11	M00302010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00303120009	Berm	Rock Berm	—	X	X	—
			M00303120010	Berm	Rock Berm	—	X	X	—
			M00303120011	Berm	Rock Berm	—	X	X	—
			M00304050005	Channel/Swale	Water Bar	X	—	X	—
			M00304060001	Channel/Swale	Rip Rap	X	—	—	X
			M00304060008	Channel/Swale	Rip Rap	X	—	X	—
			M00305020012	Sediment Trap and Basin	Sediment Basin	—	X	X	—
			M00306010007	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
M-SMA-3.1	Baseline	13-Dec-10	M00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00403040006	Berm	Asphalt Berm	—	X	X	—
			M00404060005	Channel/Swale	Rip Rap	X	—	—	X
			M00406010004	Check Dam	Rock Check Dam	—	X	—	X
M-SMA-3.5	Baseline	26-Apr-11	M00503120014	Berm	Rock Berm	—	X	X	—
		26-Apr-11	M00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
		12-May-11	M00503010015	Berm	Earthen Berm	—	X	—	X
		12-May-11	M00503010016	Berm	Earthen Berm	—	X	—	X
		26-Apr-11	M00503120009	Berm	Rock Berm	—	X	—	X
		26-Apr-11	M00503120010	Berm	Rock Berm	—	X	—	X
		26-Apr-11	M00503120013	Berm	Rock Berm	—	X	X	—
		26-Apr-11	M00504060011	Channel/Swale	Rip Rap	X	—	X	—
		26-Apr-11	M00504060012	Channel/Swale	Rip Rap	X	—	X	—
		12-May-11	M00504060017	Channel/Swale	Rip Rap	X	—	—	X
		26-Apr-11	M00506010004	Check Dam	Rock Check Dam	—	X	X	—
		26-Apr-11	M00506010005	Check Dam	Rock Check Dam	—	X	X	—
M-SMA-4	Additional	n/a	M00606010013	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	1-Nov-10	M00602010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00602020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M00604060002	Channel/Swale	Rip Rap	X	—	—	X
			M00604060007	Channel/Swale	Rip Rap	X	—	X	—
			M00604060012	Channel/Swale	Rip Rap	X	—	X	—
			M00606010005	Check Dam	Rock Check Dam	—	X	X	—
			M00607010006	Gabion	Gabions	X	—	X	—
M-SMA-5	Baseline	28-Apr-11	M00702010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00702020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M00702030014	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			M00703060015	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
M-SMA-5	Baseline	28-Apr-11	M00704010013	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			M00704020012	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			M00704060001	Channel/Swale	Rip Rap	X	—	X	—
			M00704060008	Channel/Swale	Rip Rap	X	—	X	—
			M00706010002	Check Dam	Rock Check Dam	—	X	—	X
			M00706010007	Check Dam	Rock Check Dam	—	X	X	—
M-SMA-6	Additional	n/a	M00806010017	Check Dam	Rock Check Dam	—	X	—	X
			M00806010018	Check Dam	Rock Check Dam	—	X	X	—
			M00806010019	Check Dam	Rock Check Dam	—	X	X	—
			M00806010020	Check Dam	Rock Check Dam	—	X	X	—
			M00806010021	Check Dam	Rock Check Dam	—	X	—	X
			M00806010022	Check Dam	Rock Check Dam	—	X	—	X
			M00806010023	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	13-Dec-10	M00802010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M00802020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M00804060001	Channel/Swale	Rip Rap	X	—	X	—
			M00804060014	Channel/Swale	Rip Rap	X	—	—	—
			M00805020016	Sediment Trap and Basin	Sediment Basin	—	X	X	—
			M00806010007	Check Dam	Rock Check Dam	—	X	X	—
			M00806010010	Check Dam	Rock Check Dam	—	X	—	X
			M00806010011	Check Dam	Rock Check Dam	—	X	—	X
			M00806010012	Check Dam	Rock Check Dam	—	X	—	X
			M00807020013	Gabion	Gabion Blanket	X	—	X	—
			M00808030002	Cap	Concrete/Asphalt Cap	X	—	X	—
M-SMA-7	Additional	n/a	M00903060007	Berm	Straw Wattles	—	X	X	—
			M00903060008	Berm	Straw Wattles	—	X	X	—
	Baseline	13-Dec-10	M00902020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M00906010003	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
M-SMA-7.9	Additional	n/a	M01003010012	Berm	Earthen Berm	—	X	—	X
	Baseline	3-Dec-10	M01001010001	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			M01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			M01002020003	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M01003010004	Berm	Earthen Berm	—	X	X	—
			M01003010010	Berm	Earthen Berm	—	X	X	—
			M01003010011	Berm	Earthen Berm	—	X	X	—
			M01003120005	Berm	Rock Berm	—	X	X	—
			M01003120006	Berm	Rock Berm	—	X	X	—
M-SMA-9.1	Baseline	12-Jan-11	M01101020001	Seed and Mulch	Seed and Gravel Mulch	X	—	X	—
			M01102020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			M01104040004	Channel/Swale	Culvert	X	—	X	—
			M01106010005	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-1.05	Additional	n/a	J00101010015	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			J00103010017	Berm	Earthen Berm	—	X	—	X
			J00103010018	Berm	Earthen Berm	—	X	—	X
			J00104050012	Channel/Swale	Water Bar	X	—	X	—
			J00104050013	Channel/Swale	Water Bar	X	—	X	—
			J00104050014	Channel/Swale	Water Bar	X	—	X	—
	Baseline	1-Nov-10	J00102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00104050008	Channel/Swale	Water Bar	X	—	—	X
			J00104050009	Channel/Swale	Water Bar	X	—	X	—
			J00104060011	Channel/Swale	Rip Rap	X	—	—	X
			J00106010010	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-10	Baseline	13-Dec-10	J01202010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01203020001	Berm	Base Course Berm	—	X	X	—
			J01204060004	Channel/Swale	Rip Rap	X	—	—	X
			J01206010006	Check Dam	Rock Check Dam	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PJ-SMA-11	Additional	n/a	J01303060016	Berm	Straw Wattles	—	X	—	X
			J01303060017	Berm	Straw Wattles	—	X	—	X
	Baseline	13-Dec-10	J01302010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01303010003	Berm	Earthen Berm	—	X	—	X
			J01303010004	Berm	Earthen Berm	—	X	X	—
			J01303060010	Berm	Straw Wattles	—	X	—	X
			J01303060012	Berm	Straw Wattles	—	X	—	X
			J01303060013	Berm	Straw Wattles	—	X	—	X
			J01303060014	Berm	Straw Wattles	—	X	—	X
			J01306010005	Check Dam	Rock Check Dam	—	X	—	X
			J01306010006	Check Dam	Rock Check Dam	—	X	—	X
			J01306010007	Check Dam	Rock Check Dam	—	X	—	X
			J01306010008	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-11.1	Baseline	13-Dec-10	J01402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01403010003	Berm	Earthen Berm	—	X	X	—
			J01403060014	Berm	Straw Wattles	—	X	—	X
			J01406010004	Check Dam	Rock Check Dam	—	X	—	X
			J01406010005	Check Dam	Rock Check Dam	—	X	—	X
			J01406010006	Check Dam	Rock Check Dam	—	X	—	X
			J01406010007	Check Dam	Rock Check Dam	—	X	—	X
			J01406010008	Check Dam	Rock Check Dam	—	X	—	X
			J01406010009	Check Dam	Rock Check Dam	—	X	—	X
			J01406010010	Check Dam	Rock Check Dam	—	X	—	X
			J01406010011	Check Dam	Rock Check Dam	—	X	—	X
			J01406010012	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-13	Baseline	29-Mar-11	J01501010004	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			J01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01503010002	Berm	Earthen Berm	—	X	X	—
			J01503010003	Berm	Earthen Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PJ-SMA-13.7	Baseline	13-Dec-10	J01602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01602030003	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			J01606010004	Check Dam	Rock Check Dam	—	X	X	—
			J01606010005	Check Dam	Rock Check Dam	—	X	X	—
			J01606010006	Check Dam	Rock Check Dam	—	X	X	—
			J01606010007	Check Dam	Rock Check Dam	—	X	X	—
			J01607010002	Gabion	Gabions	X	—	—	X
PJ-SMA-14	Additional	n/a	J01703010005	Berm	Earthen Berm	—	X	—	X
			J01703010006	Berm	Earthen Berm	—	X	—	X
	Baseline	29-Mar-11	J01701010004	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			J01703020002	Berm	Base Course Berm	—	X	X	—
			J01703020003	Berm	Base Course Berm	—	X	—	X
			J01708010001	Cap	Earth Cap	X	—	—	—
PJ-SMA-14.2	Baseline	1-Nov-10	J01802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01802030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	—
			J01803120004	Berm	Rock Berm	—	X	—	X
PJ-SMA-14.3	Baseline	1-Nov-10	J01902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01902030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	X	—	X
PJ-SMA-14.4	Baseline	29-Mar-11	J02001010009	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			J02002010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02002030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			J02003010008	Berm	Earthen Berm	—	X	X	—
			J02003040006	Berm	Asphalt Berm	—	X	X	—
PJ-SMA-14.6	Additional	n/a	J02101060006	Seed and Mulch	Erosion Control Blanket	X	—	—	—
			J02103010005	Berm	Earthen Berm	—	X	—	X
			J02104060007	Channel/Swale	Rip Rap	X	—	X	—
	Baseline	1-Nov-10	J02102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PJ-SMA-14.8	Baseline	13-Dec-10	J02202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02202030004	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			J02203020005	Berm	Base Course Berm	—	X	X	—
			J02203060006	Berm	Straw Wattles	—	X	—	X
PJ-SMA-16	Additional	n/a	J02303060003	Berm	Straw Wattles	—	X	—	X
	Baseline	1-Nov-10	J02302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
PJ-SMA-17	Baseline	16-Nov-10	J02402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02404060006	Channel/Swale	Rip Rap	X	—	—	X
			J02404060007	Channel/Swale	Rip Rap	X	—	—	X
			J02405010005	Sediment Trap and Basin	Sediment Trap	—	X	—	X
			J02406010004	Check Dam	Rock Check Dam	—	X	X	—
PJ-SMA-18	Additional	n/a	J02604010009	Channel/Swale	Earthen Channel/Swale	X	—	X	—
	Baseline	16-Nov-10	J02601060002	Seed and Mulch	Erosion Control Blanket	X	—	—	X
			J02602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02604060007	Channel/Swale	Rip Rap	X	—	—	X
			J02605010005	Sediment Trap and Basin	Sediment Trap	—	X	—	X
			J02606010004	Check Dam	Rock Check Dam	—	X	—	X
			J02606010006	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-19	Baseline	16-Nov-10	J02502010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02504020004	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			J02504020006	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			J02504060010	Channel/Swale	Rip Rap	X	—	—	X
			J02505020002	Sediment Trap and Basin	Sediment Basin	—	X	—	X
			J02506010005	Check Dam	Rock Check Dam	—	X	—	X
			J02506010007	Check Dam	Rock Check Dam	—	X	—	X
			J02506010008	Check Dam	Rock Check Dam	—	X	—	X
			J02506010009	Check Dam	Rock Check Dam	—	X	—	X
			J02507010001	Gabion	Gabions	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PJ-SMA-2	Additional	n/a	J00203010015	Berm	Earthen Berm	—	X	X	—
			J00203060016	Berm	Straw Wattles	—	X	X	—
			J00203060017	Berm	Straw Wattles	—	X	X	—
			J00206010018	Check Dam	Rock Check Dam	—	X	X	—
			J00206010019	Check Dam	Rock Check Dam	—	X	X	—
			J00206010020	Check Dam	Rock Check Dam	—	X	X	—
			J00206010021	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	1-Nov-10	J00202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00202020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			J00203010006	Berm	Earthen Berm	—	X	X	—
			J00203010007	Berm	Earthen Berm	—	X	X	—
			J00203010008	Berm	Earthen Berm	—	X	X	—
			J00203010009	Berm	Earthen Berm	—	X	X	—
			J00206010014	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-20	Baseline	16-Nov-10	J02702010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02703090001	Berm	Curbing	—	X	—	X
			J02704060006	Channel/Swale	Rip Rap	X	—	—	X
			J02708030005	Cap	Concrete/Asphalt Cap	X	—	X	—
PJ-SMA-3.05	Additional	n/a	J00306010009	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	12-Jan-11	J00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	18-Jul-12	J00303010010	Berm	Earthen Berm	—	X	X	—
			J00303010011	Berm	Earthen Berm	—	X	—	X
PJ-SMA-4.05	Additional	n/a	J00403010007	Berm	Earthen Berm	—	X	X	—
	Baseline	1-Nov-10	J00402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00406010006	Check Dam	Rock Check Dam	—	X	—	X
PJ-SMA-5	Additional	n/a	J00503060013	Berm	Straw Wattles	—	X	X	—
			J00503060014	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PJ-SMA-5	Baseline	1-Nov-10	J00502010006	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00504010003	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			J00506010008	Check Dam	Rock Check Dam	—	X	X	—
			J00506010009	Check Dam	Rock Check Dam	—	X	X	—
			J00506010010	Check Dam	Rock Check Dam	—	X	X	—
			J00506010011	Check Dam	Rock Check Dam	—	X	—	X
			J00506010012	Check Dam	Rock Check Dam	—	X	—	X
			J00506030004	Check Dam	Juniper Bales	—	X	X	—
			J00506030007	Check Dam	Juniper Bales	—	X	X	—
PJ-SMA-5.1	Baseline	22-Dec-10	J00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00604010004	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			J00606010007	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	18-Jul-12	J00603010009	Berm	Earthen Berm	—	X	—	X
PJ-SMA-6	Additional	n/a	J00701010017	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			J00703010009	Berm	Earthen Berm	—	X	—	X
			J00703010010	Berm	Earthen Berm	—	X	—	X
			J00703010011	Berm	Earthen Berm	—	X	—	X
			J00703060013	Berm	Straw Wattles	—	X	X	—
			J00703060014	Berm	Straw Wattles	—	X	X	—
			J00703060015	Berm	Straw Wattles	—	X	X	—
			J00703060016	Berm	Straw Wattles	—	X	X	—
			J00703120012	Berm	Rock Berm	—	X	X	—
	Baseline	1-Nov-10	J00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00706010002	Check Dam	Rock Check Dam	—	X	X	—
			J00706010003	Check Dam	Rock Check Dam	—	X	X	—
			J00706010004	Check Dam	Rock Check Dam	—	X	X	—
			J00706030008	Check Dam	Juniper Bales	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PJ-SMA-7	Baseline	1-Nov-10	J00801060005	Seed and Mulch	Erosion Control Blanket	X	—	—	X
			J00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00803010004	Berm	Earthen Berm	—	X	—	X
			J00804010002	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			J00804040003	Channel/Swale	Culvert	X	—	X	—
PJ-SMA-8	Baseline	1-Nov-10	J00902010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J00903010006	Berm	Earthen Berm	—	X	—	X
			J00903010009	Berm	Earthen Berm	—	X	—	X
			J00904020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			J00904060001	Channel/Swale	Rip Rap	X	—	X	—
			J00906010002	Check Dam	Rock Check Dam	—	X	X	—
			J00906010004	Check Dam	Rock Check Dam	—	X	X	—
PJ-SMA-9	Baseline	1-Nov-10	J01002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J01003010002	Berm	Earthen Berm	—	X	—	X
			J01004060001	Channel/Swale	Rip Rap	X	—	X	—
			J01006010006	Check Dam	Rock Check Dam	—	X	—	X
			J01006010007	Check Dam	Rock Check Dam	—	X	X	—
			J01006010008	Check Dam	Rock Check Dam	—	X	X	—
			J01006010009	Check Dam	Rock Check Dam	—	X	X	—
PRATT-SMA-1.05	Baseline	13-Dec-10	T00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00102020009	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			T00103010002	Berm	Earthen Berm	—	X	—	X
			T00103010017	Berm	Earthen Berm	—	X	X	—
			T00103020013	Berm	Base Course Berm	—	X	X	—
			T00103020014	Berm	Base Course Berm	—	X	X	—
			T00103020015	Berm	Base Course Berm	—	X	X	—
			T00103020016	Berm	Base Course Berm	—	X	X	—
			T00103020018	Berm	Base Course Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PRATT-SMA-1.05	Baseline	13-Dec-10	T00103090004	Berm	Curbing	—	X	X	—
			T00103120008	Berm	Rock Berm	—	X	—	X
			T00104020006	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			T00106010011	Check Dam	Rock Check Dam	—	X	—	X
			T00106010012	Check Dam	Rock Check Dam	—	X	—	X
			T00107010003	Gabion	Gabions	—	X	—	X
			T00108020005	Cap	Rock Cap	X	—	X	—
P-SMA-0.3	Baseline	6-Dec-10	P00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00403010002	Berm	Earthen Berm	—	X	X	—
			P00403010006	Berm	Earthen Berm	—	X	—	X
			P00403010007	Berm	Earthen Berm	—	X	X	—
			P00404040003	Channel/Swale	Culvert	X	—	X	—
P-SMA-1	Additional	n/a	P00501060020	Seed and Mulch	Erosion Control Blanket	X	—	—	—
			P00503010018	Berm	Earthen Berm	—	X	—	X
			P00503010019	Berm	Earthen Berm	—	X	—	X
			P00503060021	Berm	Straw Wattles	—	X	—	X
			P00503060022	Berm	Straw Wattles	—	X	—	X
			P00503060025	Berm	Straw Wattles	—	X	—	X
			P00503060030	Berm	Straw Wattles	—	X	—	X
			P00503060031	Berm	Straw Wattles	—	X	—	X
			P00503060033	Berm	Straw Wattles	—	X	—	X
			P00503060034	Berm	Straw Wattles	—	X	—	X
			P00503060035	Berm	Straw Wattles	—	X	—	X
			P00503060036	Berm	Straw Wattles	—	X	—	X
			P00503060037	Berm	Straw Wattles	—	X	—	X
			P00503060038	Berm	Straw Wattles	—	X	—	X
			P00503060039	Berm	Straw Wattles	—	X	—	X
			P00503120017	Berm	Rock Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
P-SMA-1	Baseline	1-Nov-10	P00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00502030014	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	—	X
			P00502030015	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	—
			P00503080003	Berm	Retaining Wall	—	X	—	X
			P00504020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	—	X
			P00504020009	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			P00504040004	Channel/Swale	Culvert	X	—	X	—
			P00504040016	Channel/Swale	Culvert	X	—	X	—
			P00504060002	Channel/Swale	Rip Rap	X	—	—	X
			P00504060013	Channel/Swale	Rip Rap	X	—	—	X
P-SMA-2	Baseline	1-Nov-10	P00602010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00603020009	Berm	Base Course Berm	—	X	X	—
			P00603020010	Berm	Base Course Berm	—	X	X	—
			P00603120008	Berm	Rock Berm	—	X	—	X
			P00604010001	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			P00604020006	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			P00604060002	Channel/Swale	Rip Rap	X	—	X	—
			P00604060003	Channel/Swale	Rip Rap	X	—	X	—
P-SMA-2.15	Baseline	6-Dec-10	P00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00702030002	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	—
			P00704060003	Channel/Swale	Rip Rap	X	—	X	—
			P00704060006	Channel/Swale	Rip Rap	X	—	—	X
			P00706010004	Check Dam	Rock Check Dam	—	X	X	—
			P00706010005	Check Dam	Rock Check Dam	—	X	—	X
P-SMA-2.2	Additional	n/a	P00803060023	Berm	Straw Wattles	—	X	—	X
			P00803130024	Berm	S-Fence	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
P-SMA-2.2	Baseline	28-Apr-11	P00802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00803020012	Berm	Base Course Berm	—	X	X	—
			P00803130014	Berm	S-Fence	—	X	—	X
			P00803130015	Berm	S-Fence	—	X	—	X
			P00803130016	Berm	S-Fence	—	X	—	X
			P00804020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	—	X
			P00804060001	Channel/Swale	Rip Rap	X	—	X	—
			P00804060006	Channel/Swale	Rip Rap	X	—	—	X
			P00804080017	Channel/Swale	TRM-Lined Swale	X	—	X	—
			P00806010018	Check Dam	Rock Check Dam	—	X	X	—
			P00806010019	Check Dam	Rock Check Dam	—	X	X	—
			P00806010020	Check Dam	Rock Check Dam	—	X	X	—
			P00806010021	Check Dam	Rock Check Dam	—	X	X	—
			P00806010022	Check Dam	Rock Check Dam	—	X	X	—
P-SMA-3.05	Additional	n/a	P00901010011	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			P00903010010	Berm	Earthen Berm	—	X	—	X
	Baseline	6-Dec-10	P00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			P00903010008	Berm	Earthen Berm	—	X	—	X
			P00903010009	Berm	Earthen Berm	—	X	—	X
			P00903020007	Berm	Base Course Berm	—	X	—	X
			P00904050005	Channel/Swale	Water Bar	X	—	X	—
			P00904050006	Channel/Swale	Water Bar	X	—	X	—
PT-SMA-0.5	Baseline	29-Mar-11	I00101010005	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			I00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			I00103010002	Berm	Earthen Berm	—	X	—	X
	Enhanced	In Progress	I00103010006	Berm	Earthen Berm	—	X	—	X
			I00103010007	Berm	Earthen Berm	—	X	—	X
			I00103010008	Berm	Earthen Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PT-SMA-1	Baseline	29-Mar-11	I00201010022	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			I00202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			I00203010018	Berm	Earthen Berm	—	X	—	X
			I00203010019	Berm	Earthen Berm	—	X	—	X
			I00203010020	Berm	Earthen Berm	—	X	—	X
			I00203010021	Berm	Earthen Berm	—	X	—	X
			I00203120012	Berm	Rock Berm	—	X	X	—
			I00203120013	Berm	Rock Berm	—	X	X	—
	Enhanced	3-Aug-12	I00203010023	Berm	Earthen Berm	—	X	—	X
			I00203010024	Berm	Earthen Berm	—	X	—	X
			I00203010025	Berm	Earthen Berm	—	X	—	X
			I00203010026	Berm	Earthen Berm	—	X	—	X
			I00203010027	Berm	Earthen Berm	—	X	—	X
			I00203010028	Berm	Earthen Berm	—	X	—	X
			I00203010029	Berm	Earthen Berm	—	X	—	X
			I00203010030	Berm	Earthen Berm	—	X	—	X
			I00203060033	Berm	Straw Wattles	—	X	—	X
			I00206010031	Check Dam	Rock Check Dam	—	X	—	X
			I00206010032	Check Dam	Rock Check Dam	—	X	—	X
PT-SMA-1.7	Additional	n/a	I00303060012	Berm	Straw Wattles	—	X	—	X
			I00303060013	Berm	Straw Wattles	—	X	—	X
			I00303060015	Berm	Straw Wattles	—	X	X	—
			I00303060016	Berm	Straw Wattles	—	X	—	X
	Baseline	29-Mar-11	I00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			I00303060004	Berm	Straw Wattles	—	X	—	X
			I00306010010	Check Dam	Rock Check Dam	—	X	X	—
			I00306010011	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
PT-SMA-2	Baseline	29-Mar-11	I00402010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			I00403010009	Berm	Earthen Berm	—	X	—	X
			I00403120010	Berm	Rock Berm	—	X	X	—
PT-SMA-2.01	Baseline	29-Mar-11	I004A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	3-Aug-12	I004A03010004	Berm	Earthen Berm	—	X	—	X
PT-SMA-3	Additional	n/a	I00503020008	Berm	Base Course Berm	—	X	X	—
			I00504060007	Channel/Swale	Rip Rap	X	—	X	—
	Baseline	1-Nov-10	I00504040005	Channel/Swale	Culvert	X	—	X	—
			I00504060004	Channel/Swale	Rip Rap	X	—	X	—
			I00506010006	Check Dam	Rock Check Dam	—	X	—	X
PT-SMA-4.2	Additional	n/a	I00703120007	Berm	Rock Berm	—	X	—	X
	Baseline	1-Nov-10	I00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			I00702020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			I00704040005	Channel/Swale	Culvert	X	—	X	—
			I00704060002	Channel/Swale	Rip Rap	X	—	—	X
			I00704060003	Channel/Swale	Rip Rap	X	—	X	—
			I00706010004	Check Dam	Rock Check Dam	—	X	X	—
R-SMA-0.5	Additional	n/a	R00101010014	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			R00101010015	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			R00101010016	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			R00103060010	Berm	Straw Wattles	—	X	X	—
			R00103060011	Berm	Straw Wattles	—	X	—	X
			R00103060012	Berm	Straw Wattles	—	X	—	X
			R00103060013	Berm	Straw Wattles	—	X	—	X
			R00103060017	Berm	Straw Wattles	—	X	X	—
			R00103060018	Berm	Straw Wattles	—	X	—	X
			R00103060019	Berm	Straw Wattles	—	X	—	X
			R00103060020	Berm	Straw Wattles	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
R-SMA-0.5	Additional	n/a	R00103060021	Berm	Straw Wattles	—	X	X	—
			R00103060022	Berm	Straw Wattles	—	X	X	—
			R00103060023	Berm	Straw Wattles	—	X	X	—
			R00103060024	Berm	Straw Wattles	—	X	—	X
	Baseline	6-Dec-10	R00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			R00102020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			R00103030006	Berm	Log Berm	—	X	—	X
R-SMA-1	Baseline	26-Apr-11	R00202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			R00204060006	Channel/Swale	Rip Rap	X	—	X	—
			R00204060007	Channel/Swale	Rip Rap	X	—	X	—
			R00206010005	Check Dam	Rock Check Dam	—	X	—	X
			R00207010001	Gabion	Gabions	—	X	X	—
			R00207010002	Gabion	Gabions	—	X	X	—
			R00207020004	Gabion	Gabion Blanket	X	—	X	—
R-SMA-1.95	Additional	n/a	R00303060007	Berm	Straw Wattles	—	X	—	X
	Baseline	6-Dec-10	R00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			R00303010006	Berm	Earthen Berm	—	X	—	X
			R00303060005	Berm	Straw Wattles	—	X	—	X
			R00304010003	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			R00304040002	Channel/Swale	Culvert	X	—	X	—
R-SMA-2.05	Baseline	1-Nov-10	R00402020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			R00406030002	Check Dam	Juniper Bales	—	X	—	X
			R00406030003	Check Dam	Juniper Bales	—	X	—	X
R-SMA-2.3	Baseline	1-Nov-10	R00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			R00502020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			R00506030003	Check Dam	Juniper Bales	—	X	—	X
R-SMA-2.5	Baseline	6-Dec-10	R00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			R00602020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
R-SMA-2.5	Baseline	6-Dec-10	R00604060004	Channel/Swale	Rip Rap	X	—	X	—
			R00606010003	Check Dam	Rock Check Dam	—	X	—	X
			R00606010005	Check Dam	Rock Check Dam	—	X	X	—
			R00606010006	Check Dam	Rock Check Dam	—	X	X	—
S-SMA-0.25	Additional	n/a	S00104060010	Channel/Swale	Rip Rap	X	—	—	X
	Baseline	1-Nov-10	S00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00102020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			S00104060007	Channel/Swale	Rip Rap	X	—	X	—
			S00107010008	Gabion	Gabions	—	X	—	X
			S00107020003	Gabion	Gabion Blanket	X	—	—	X
S-SMA-1.1	Baseline	28-Apr-11	S00204060006	Channel/Swale	Rip Rap	X	—	X	—
			S00206010008	Check Dam	Rock Check Dam	—	X	X	—
			S00207010003	Gabion	Gabions	—	X	—	X
			S00207020005	Gabion	Gabion Blanket	X	—	X	—
	Enhanced	In Progress	S00203010018	Berm	Earthen Berm	—	X	—	X
			S00203090017	Berm	Curbing	—	X	X	—
			S00204040016	Channel/Swale	Culvert	X	—	X	—
			S00204060014	Channel/Swale	Rip Rap	X	—	X	—
			S00204060015	Channel/Swale	Rip Rap	X	—	X	—
			S00204060019	Channel/Swale	Rip Rap	X	—	X	—
			S00205020013	Sediment Trap and Basin	Sediment Basin	—	X	—	X
S-SMA-2	Additional	n/a	S00304060011	Channel/Swale	Rip Rap	X	—	X	—
	Baseline	1-Nov-10	S00302010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00303020008	Berm	Base Course Berm	—	X	X	—
			S00304060005	Channel/Swale	Rip Rap	X	—	X	—
			S00304060009	Channel/Swale	Rip Rap	X	—	X	—
			S00304060010	Channel/Swale	Rip Rap	X	—	X	—
			S00307020006	Gabion	Gabion Blanket	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
S-SMA-2.01	Baseline	9-Dec-10	S003A02030005	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	—
			S003A03010004	Berm	Earthen Berm	—	X	X	—
			S003A04060003	Channel/Swale	Rip Rap	X	—	—	X
	Enhanced	In Progress	S003A05020006	Sediment Trap and Basin	Sediment Basin	—	X	—	X
			S003A05020007	Sediment Trap and Basin	Sediment Basin	—	X	—	X
			S003A05020008	Sediment Trap and Basin	Sediment Basin	—	X	—	X
S-SMA-2.8	Additional	n/a	S00403060006	Berm	Straw Wattles	—	X	—	X
	Baseline	9-Dec-10	S00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00403010005	Berm	Earthen Berm	—	X	—	X
			S00403020004	Berm	Base Course Berm	—	X	X	—
S-SMA-3.51	Baseline	9-Dec-10	S00502010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00503010005	Berm	Earthen Berm	—	X	—	X
			S00503020006	Berm	Base Course Berm	—	X	X	—
			S00506010007	Check Dam	Rock Check Dam	—	X	X	—
			S00506010008	Check Dam	Rock Check Dam	—	X	X	—
			S00506010009	Check Dam	Rock Check Dam	—	X	X	—
			S00506010010	Check Dam	Rock Check Dam	—	X	X	—
			S00506010012	Check Dam	Rock Check Dam	—	X	X	—
S-SMA-3.52	Additional	n/a	S005A03010004	Berm	Earthen Berm	—	X	X	—
	Baseline	9-Dec-10	S005A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S005A03060003	Berm	Straw Wattles	—	X	—	X
S-SMA-3.53	Baseline	9-Dec-10	S005B02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			S005B03120005	Berm	Rock Berm	—	X	—	X
			S005B06010003	Check Dam	Rock Check Dam	—	X	X	—
			S005B06010004	Check Dam	Rock Check Dam	—	X	X	—
S-SMA-3.6	Baseline	1-Nov-10	S00602010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00604060002	Channel/Swale	Rip Rap	X	—	X	—
			S00604060010	Channel/Swale	Rip Rap	X	—	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
S-SMA-3.6	Baseline	1-Nov-10	S00604060011	Channel/Swale	Rip Rap	X	—	X	—
			S00606010001	Check Dam	Rock Check Dam	—	X	—	X
			S00606010012	Check Dam	Rock Check Dam	—	X	—	X
			S00606010013	Check Dam	Rock Check Dam	—	X	—	X
			S00606010014	Check Dam	Rock Check Dam	—	X	—	X
			S00606010015	Check Dam	Rock Check Dam	—	X	X	—
			S00607010007	Gabion	Gabions	—	X	X	—
			S00607010008	Gabion	Gabions	—	X	X	—
	Enhanced	In Progress	S00603010019	Berm	Earthen Berm	—	X	X	—
			S00603010020	Berm	Earthen Berm	—	X	X	—
			S00606010016	Check Dam	Rock Check Dam	—	X	X	—
			S00606010017	Check Dam	Rock Check Dam	—	X	—	X
			S00606010018	Check Dam	Rock Check Dam	—	X	—	X
S-SMA-3.7	Baseline	9-Dec-10	S00702020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			S00703120004	Berm	Rock Berm	—	X	X	—
			S00703120005	Berm	Rock Berm	—	X	—	X
			S00704030003	Channel/Swale	Rock Channel/Swale	X	—	X	—
S-SMA-3.71	Additional	n/a	S00803010013	Berm	Earthen Berm	—	X	X	—
			S00803010014	Berm	Earthen Berm	—	X	—	X
	Baseline	9-Dec-10	S00802010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00804020002	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	—	X
			S00806010008	Check Dam	Rock Check Dam	—	X	—	X
			S00806010009	Check Dam	Rock Check Dam	—	X	—	X
			S00806010010	Check Dam	Rock Check Dam	—	X	—	X
			S00806010011	Check Dam	Rock Check Dam	—	X	—	X
			S00807010001	Gabion	Gabions	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
S-SMA-3.72	Additional	n/a	S00903010009	Berm	Earthen Berm	—	X	X	—
			S00903010010	Berm	Earthen Berm	—	X	—	X
	Baseline	9-Dec-10	S00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S00902020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			S00903120003	Berm	Rock Berm	—	X	X	—
			S00906010005	Check Dam	Rock Check Dam	—	X	—	X
			S00906010006	Check Dam	Rock Check Dam	—	X	—	X
			S00906010007	Check Dam	Rock Check Dam	—	X	—	X
S-SMA-3.95	Additional	n/a	S01003060005	Berm	Straw Wattles	—	X	X	—
			S01003060006	Berm	Straw Wattles	—	X	—	X
	Baseline	26-Apr-11	S01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
S-SMA-4.1	Additional	n/a	S01103060010	Berm	Straw Wattles	—	X	—	X
			S01103060011	Berm	Straw Wattles	—	X	—	X
	Enhanced	25-Sep-12	S01101010007	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			S01103090005	Berm	Curbing	—	X	X	—
			S01103120008	Berm	Rock Berm	—	X	—	X
			S01104020006	Channel/Swale	Concrete/Asphalt Channel/Swale	X	—	X	—
			S01108030009	Cap	Concrete/Asphalt Cap	X	—	X	—
S-SMA-4.5	Additional	n/a	S01203060006	Berm	Straw Wattles	—	X	X	—
	Baseline	26-Apr-11	S01202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S01203010005	Berm	Earthen Berm	—	X	—	X
			S01203060002	Berm	Straw Wattles	—	X	—	X
			S01203060003	Berm	Straw Wattles	—	X	—	X
S-SMA-5	Baseline	26-Apr-11	S01302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
		13-May-11	S01303010006	Berm	Earthen Berm	—	X	—	X
		26-Apr-11	S01304060003	Channel/Swale	Rip Rap	X	—	X	—
S-SMA-5.2	Additional	n/a	S01403060014	Berm	Straw Wattles	—	X	—	X
			S01403060015	Berm	Straw Wattles	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
S-SMA-5.2	Baseline	9-Dec-10	S01402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S01404060011	Channel/Swale	Rip Rap	X	—	X	—
			S01406010006	Check Dam	Rock Check Dam	—	X	X	—
			S01406010007	Check Dam	Rock Check Dam	—	X	X	—
			S01406010008	Check Dam	Rock Check Dam	—	X	X	—
			S01406010009	Check Dam	Rock Check Dam	—	X	X	—
			S01406010010	Check Dam	Rock Check Dam	—	X	X	—
			S01406010012	Check Dam	Rock Check Dam	—	X	—	X
S-SMA-5.5	Baseline	26-Apr-11	S01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S01503010004	Berm	Earthen Berm	—	X	—	X
S-SMA-6	Baseline	28-Apr-11	S01602010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			S01603010006	Berm	Earthen Berm	—	X	X	—
			S01603010008	Berm	Earthen Berm	—	X	—	X
			S01603010009	Berm	Earthen Berm	—	X	—	X
			S01603140010	Berm	Coir Log	—	X	—	X
			S01603140011	Berm	Coir Log	—	X	—	X
			S01604060004	Channel/Swale	Rip Rap	X	—	X	—
			S01606010005	Check Dam	Rock Check Dam	—	X	X	—
			S01606010007	Check Dam	Rock Check Dam	—	X	X	—
STRM-SMA-1.05	Additional	n/a	J02806010007	Check Dam	Rock Check Dam	—	X	X	—
	Baseline	1-Nov-10	J02802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02802030003	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	—	X	—
			J02804060006	Channel/Swale	Rip Rap	X	—	—	X
			J02806010004	Check Dam	Rock Check Dam	—	X	X	—
			J02806010005	Check Dam	Rock Check Dam	—	X	X	—
STRM-SMA-1.5	Additional	n/a	J02903010009	Berm	Earthen Berm	—	X	X	—
			J02903010010	Berm	Earthen Berm	—	X	X	—
			J02903010011	Berm	Earthen Berm	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
STRM-SMA-1.5	Additional	n/a	J02903060008	Berm	Straw Wattles	—	X	X	—
			J02903060012	Berm	Straw Wattles	—	X	X	—
	Baseline	1-Nov-10	J02901010007	Seed and Mulch	Seed and Wood Mulch	X	—	X	—
			J02902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J02902020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			J02903060003	Berm	Straw Wattles	—	X	—	X
			J02903060004	Berm	Straw Wattles	—	X	X	—
STRM-SMA-4.2	Baseline	1-Nov-10	J03002010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J03003010003	Berm	Earthen Berm	—	X	—	X
			J03004010002	Channel/Swale	Earthen Channel/Swale	X	—	X	—
	Enhanced	17-Aug-12	J03001010005	Seed and Mulch	Seed and Wood Mulch	X	—	—	—
			J03003010004	Berm	Earthen Berm	—	X	—	X
STRM-SMA-5.05	Additional	n/a	J03103010012	Berm	Earthen Berm	—	X	X	—
	Baseline	1-Nov-10	J03102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			J03103020004	Berm	Base Course Berm	—	X	—	X
	Enhanced	27-Jun-12	J03101040011	Seed and Mulch	Seeding	X	—	—	—
			J03103010009	Berm	Earthen Berm	—	X	X	—
			J03103010010	Berm	Earthen Berm	—	X	—	X
T-SMA-1	Additional	n/a	T00203060007	Berm	Straw Wattles	—	X	—	X
			T00203060008	Berm	Straw Wattles	—	X	—	X
			T00203060009	Berm	Straw Wattles	—	X	—	X
			T00203060010	Berm	Straw Wattles	—	X	—	X
			T00203060011	Berm	Straw Wattles	—	X	—	X
			T00203060012	Berm	Straw Wattles	—	X	—	X
	Baseline	13-Dec-10	T00202010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00204060006	Channel/Swale	Rip Rap	X	—	—	X
			T00208010001	Cap	Earth Cap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
T-SMA-2.5	Baseline	13-Dec-10	T00304010002	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			T00306010003	Check Dam	Rock Check Dam	—	X	—	X
			T00306010004	Check Dam	Rock Check Dam	—	X	—	X
			T00306010005	Check Dam	Rock Check Dam	—	X	—	X
			T00308020001	Cap	Rock Cap	X	—	—	X
T-SMA-2.85	Baseline	13-Dec-10	T00402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00402020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			T00403090004	Berm	Curbing	—	X	X	—
			T00406010005	Check Dam	Rock Check Dam	—	X	—	X
			T00406010006	Check Dam	Rock Check Dam	X	—	X	—
T-SMA-3	Additional	n/a	T00506020009	Check Dam	Log Check Dam	—	X	—	X
			T00506020010	Check Dam	Log Check Dam	—	X	—	X
			T00506020011	Check Dam	Log Check Dam	—	X	—	X
	Baseline	13-Dec-10	T00502010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00502020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			T00504060001	Channel/Swale	Rip Rap	X	—	X	—
T-SMA-4	Baseline	13-Dec-10	T00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00602020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			T00603030009	Berm	Log Berm	—	X	—	X
			T00603030010	Berm	Log Berm	—	X	—	X
			T00603090005	Berm	Curbing	—	X	X	—
			T00604060004	Channel/Swale	Rip Rap	X	—	—	X
			T00606010006	Check Dam	Rock Check Dam	—	X	X	—
			T00606010007	Check Dam	Rock Check Dam	—	X	X	—
			T00606010008	Check Dam	Rock Check Dam	—	X	X	—
			T00607010003	Gabion	Gabions	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
T-SMA-5	Baseline	13-Dec-10	T00702010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00702020007	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			T00703020003	Berm	Base Course Berm	—	X	X	—
			T00703020008	Berm	Base Course Berm	—	X	X	—
			T00703120010	Berm	Rock Berm	—	X	—	X
			T00706010002	Check Dam	Rock Check Dam	—	X	—	X
			T00706010004	Check Dam	Rock Check Dam	—	X	—	X
			T00706010009	Check Dam	Rock Check Dam	—	X	X	—
			T00706010011	Check Dam	Rock Check Dam	—	X	—	X
T-SMA-6.8	Baseline	13-Dec-10	T00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00803060002	Berm	Straw Wattles	—	X	X	—
			T00803100003	Berm	Gravel Bags	—	X	—	X
T-SMA-7	Additional	n/a	T00901030010	Seed and Mulch	Hydromulch	X	—	—	—
			T00903010009	Berm	Earthen Berm	—	X	X	—
	Baseline	13-Dec-10	T00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T00903020008	Berm	Base Course Berm	—	X	X	—
			T00906010002	Check Dam	Rock Check Dam	—	X	—	X
			T00906010003	Check Dam	Rock Check Dam	—	X	—	X
			T00906010006	Check Dam	Rock Check Dam	—	X	—	X
			T00906010007	Check Dam	Rock Check Dam	—	X	—	X
T-SMA-7.1	Additional	n/a	T01003010007	Berm	Earthen Berm	—	X	—	X
			T01003010008	Berm	Earthen Berm	—	X	—	X
	Baseline	13-Dec-10	T01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			T01003020005	Berm	Base Course Berm	—	X	X	—
			T01006020006	Check Dam	Log Check Dam	—	X	—	X
W-SMA-1	Baseline	1-Nov-10	W00102010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00102020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W00104060001	Channel/Swale	Rip Rap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-1	Baseline	1-Nov-10	W00104060011	Channel/Swale	Rip Rap	X	—	X	—
			W00106010002	Check Dam	Rock Check Dam	—	X	—	X
			W00106010003	Check Dam	Rock Check Dam	—	X	—	X
			W00106010008	Check Dam	Rock Check Dam	—	X	—	X
			W00106010009	Check Dam	Rock Check Dam	—	X	—	X
			W00106010010	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-1.5	Baseline	22-Dec-10	W00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00203060004	Berm	Straw Wattles	—	X	X	—
			W00203060005	Berm	Straw Wattles	—	X	X	—
			W00204060007	Channel/Swale	Rip Rap	X	—	—	X
			W00204070002	Channel/Swale	Vegetated Swale	X	—	—	X
			W00204070003	Channel/Swale	Vegetated Swale	X	—	—	X
			W00206010008	Check Dam	Rock Check Dam	—	X	X	—
			W00206010009	Check Dam	Rock Check Dam	—	X	X	—
			W00206010010	Check Dam	Rock Check Dam	—	X	—	X
			W00206010011	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	25-Sep-12	W00203010015	Berm	Earthen Berm	—	X	—	X
			W00205020013	Sediment Trap and Basin	Sediment Basin	—	X	—	X
			W00205020014	Sediment Trap and Basin	Sediment Basin	—	X	—	X
			W00206010016	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-10	Baseline	22-Dec-10	W01802010009	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01803040010	Berm	Asphalt Berm	—	X	X	—
			W01803040016	Berm	Asphalt Berm	—	X	X	—
			W01803090002	Berm	Curbing	—	X	X	—
			W01804060004	Channel/Swale	Rip Rap	X	—	—	—
			W01804060013	Channel/Swale	Rip Rap	X	—	X	—
	Enhanced	23-Aug-12	W01803010022	Berm	Earthen Berm	—	X	—	X
			W01803010023	Berm	Earthen Berm	—	X	—	X
			W01803010024	Berm	Earthen Berm	—	X	—	X

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-11.7	Additional	n/a	W01903010040	Berm	Earthen Berm	—	X	X	—
	Baseline	22-Dec-10	W01902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	23-Oct-12	W01903010041	Berm	Earthen Berm	—	X	—	X
			W01903010042	Berm	Earthen Berm	—	X	—	X
			W01903010043	Berm	Earthen Berm	—	X	—	X
			W01903010044	Berm	Earthen Berm	—	X	—	X
			W01903010045	Berm	Earthen Berm	—	X	—	X
			W01903010046	Berm	Earthen Berm	—	X	—	X
			W01903010047	Berm	Earthen Berm	—	X	—	X
			W01903010048	Berm	Earthen Berm	—	X	—	X
			W01903010049	Berm	Earthen Berm	—	X	—	X
			W01903010050	Berm	Earthen Berm	—	X	—	X
			W01904010051	Channel/Swale	Earthen Channel/Swale	X	—	X	—
W-SMA-12.05	Additional	n/a	W02003010015	Berm	Earthen Berm	—	X	—	X
			W02003010016	Berm	Earthen Berm	—	X	—	X
			W02003010017	Berm	Earthen Berm	—	X	—	X
	Baseline	22-Dec-10	W02002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W02004060002	Channel/Swale	Rip Rap	X	—	X	—
			W02006010001	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-14.1	Baseline	29-Mar-11	W02102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W02103060003	Berm	Straw Wattles	—	X	X	—
			W02103060004	Berm	Straw Wattles	—	X	X	—
			W02103060005	Berm	Straw Wattles	—	X	X	—
			W02103060006	Berm	Straw Wattles	—	X	X	—
			W02103060007	Berm	Straw Wattles	—	X	X	—
			W02104060014	Channel/Swale	Rip Rap	X	—	X	—
			W02106010008	Check Dam	Rock Check Dam	—	X	X	—
			W02106010009	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-14.1	Baseline	29-Mar-11	W02106010010	Check Dam	Rock Check Dam	—	X	X	—
			W02106010011	Check Dam	Rock Check Dam	—	X	X	—
			W02106010012	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	25-Sep-12	W02103010016	Berm	Earthen Berm	—	X	—	X
			W02103010017	Berm	Earthen Berm	—	X	—	X
			W02103010018	Berm	Earthen Berm	—	X	—	X
			W02103010019	Berm	Earthen Berm	—	X	—	X
			W02103010020	Berm	Earthen Berm	—	X	X	—
W-SMA-15.1	Baseline	22-Dec-10	W02202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	23-Oct-12	W02203010004	Berm	Earthen Berm	—	X	X	—
			W02203010005	Berm	Earthen Berm	—	X	—	X
W-SMA-2.05	Baseline	22-Dec-10	W00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00302020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W00306010004	Check Dam	Rock Check Dam	—	X	—	X
			W00306010005	Check Dam	Rock Check Dam	—	X	—	X
	Enhanced	25-Sep-12	W00303010007	Berm	Earthen Berm	—	X	—	X
			W00303010008	Berm	Earthen Berm	—	X	—	X
			W00306010009	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-3.5	Baseline	22-Dec-10	W00402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00403060004	Berm	Straw Wattles	—	X	X	—
			W00403060005	Berm	Straw Wattles	—	X	X	—
			W00403060006	Berm	Straw Wattles	—	X	X	—
			W00404060003	Channel/Swale	Rip Rap	X	—	—	X
			W00406010007	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-4.1	Baseline	22-Dec-10	W00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00503060002	Berm	Straw Wattles	—	X	—	X
			W00503060003	Berm	Straw Wattles	—	X	X	—
			W00503060004	Berm	Straw Wattles	—	X	X	—
			W00503060005	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-5	Additional	n/a	W00603060019	Berm	Straw Wattles	—	X	X	—
			W00606010021	Check Dam	Rock Check Dam	—	X	—	X
			W00606010022	Check Dam	Rock Check Dam	—	X	—	X
			W00606010023	Check Dam	Rock Check Dam	—	X	—	X
			W00606010024	Check Dam	Rock Check Dam	—	X	—	X
			W00606010025	Check Dam	Rock Check Dam	—	X	X	—
			W00606010026	Check Dam	Rock Check Dam	—	X	X	—
			W00606010027	Check Dam	Rock Check Dam	—	X	X	—
			W00606010028	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	22-Dec-10	W00602010009	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00603060001	Berm	Straw Wattles	—	X	X	—
			W00604040011	Channel/Swale	Culvert	X	—	X	—
			W00604060006	Channel/Swale	Rip Rap	X	—	X	—
			W00604060007	Channel/Swale	Rip Rap	X	—	X	—
			W00606010003	Check Dam	Rock Check Dam	—	X	—	X
			W00606010012	Check Dam	Rock Check Dam	—	X	—	X
			W00606010013	Check Dam	Rock Check Dam	—	X	—	X
			W00606010014	Check Dam	Rock Check Dam	—	X	—	X
			W00606010015	Check Dam	Rock Check Dam	—	X	—	X
			W00606010017	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-6	Baseline	22-Dec-10	W00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00702020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W00703060003	Berm	Straw Wattles	—	X	—	X
W-SMA-7	Baseline	22-Dec-10	W00802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00802020009	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W00803060010	Berm	Straw Wattles	—	X	X	—
			W00803060011	Berm	Straw Wattles	—	X	X	—
			W00803060012	Berm	Straw Wattles	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-7	Baseline	22-Dec-10	W00803060013	Berm	Straw Wattles	—	X	X	—
			W00806010001	Check Dam	Rock Check Dam	—	X	—	X
			W00806010003	Check Dam	Rock Check Dam	—	X	—	X
			W00806010004	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-7.8	Baseline	22-Dec-10	W00902010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W00903010004	Berm	Earthen Berm	—	X	X	—
			W00904060003	Channel/Swale	Rip Rap	X	—	X	—
			W00906010001	Check Dam	Rock Check Dam	—	X	X	—
			W00906010005	Check Dam	Rock Check Dam	—	X	X	—
			W00906010006	Check Dam	Rock Check Dam	—	X	X	—
			W00906010007	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-7.9	Baseline	22-Dec-10	W01002020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W01006010003	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-8	Additional	n/a	W01103010007	Berm	Earthen Berm	—	X	X	—
			W01103020008	Berm	Base Course Berm	—	X	X	—
	Baseline	22-Dec-10	W01102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01102020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W01106010002	Check Dam	Rock Check Dam	—	X	—	X
			W01106010006	Check Dam	Rock Check Dam	—	X	X	—
W-SMA-8.7	Baseline	22-Dec-10	W01202010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01202020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	—	—	—
			W01203020009	Berm	Base Course Berm	—	X	X	—
			W01203060010	Berm	Straw Wattles	—	X	—	X
			W01206010006	Check Dam	Rock Check Dam	—	X	—	X
			W01206010007	Check Dam	Rock Check Dam	—	X	—	X
			W01206010008	Check Dam	Rock Check Dam	—	X	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-8.71	Baseline	22-Dec-10	W012A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
	Enhanced	In Progress	W012A03010004	Berm	Earthen Berm	—	X	—	X
			W012A03010005	Berm	Earthen Berm	—	X	X	—
W-SMA-9.05	Additional	n/a	W01303010010	Berm	Earthen Berm	—	X	—	X
			W01303010011	Berm	Earthen Berm	—	X	—	X
			W01306010012	Check Dam	Rock Check Dam	—	X	—	X
	Baseline	22-Dec-10	W01302010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01303010003	Berm	Earthen Berm	—	X	X	—
			W01304010004	Channel/Swale	Earthen Channel/Swale	X	—	X	—
			W01306010001	Check Dam	Rock Check Dam	—	X	—	X
W-SMA-9.5	Additional	n/a	W01403010006	Berm	Earthen Berm	—	X	X	—
			W01403010007	Berm	Earthen Berm	—	X	X	—
	Baseline	1-Nov-10	W01402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01403060002	Berm	Straw Wattles	—	X	—	X
			W01403060003	Berm	Straw Wattles	—	X	—	X
W-SMA-9.7	Additional	n/a	W01503060007	Berm	Straw Wattles	—	X	—	X
	Baseline	22-Dec-10	W01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01503060002	Berm	Straw Wattles	—	X	—	X
			W01506030004	Check Dam	Juniper Bales	—	X	X	—
			W01506030005	Check Dam	Juniper Bales	—	X	X	—
W-SMA-9.8	Additional	n/a	W01603060011	Berm	Straw Wattles	—	X	—	X
	Baseline	22-Dec-10	W01602010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01603020007	Berm	Base Course Berm	—	X	X	—
			W01603060010	Berm	Straw Wattles	—	X	—	X
			W01604060003	Channel/Swale	Rip Rap	X	—	X	—

SMA[a]	Control	Certification Date	Best Management Practice ID	Type of Control	Description	EC[b]	SC[c]	RON[d]	ROFF[e]
W-SMA-9.9	Baseline	22-Dec-10	W01702010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	—	—	—
			W01703090001	Berm	Curbing	—	X	X	—
	Enhanced	27-Jun-12	W01701060021	Seed and Mulch	Erosion Control Blanket	X	—	—	—
			W01703010017	Berm	Earthen Berm	—	X	X	—
			W01703010018	Berm	Earthen Berm	—	X	—	X
			W01703010019	Berm	Earthen Berm	—	X	—	X
			W01703010020	Berm	Earthen Berm	—	X	—	X

[a] SMA = Site monitoring area.

[b] EC = Enhanced control.

[c] SC = Sediment control.

[d] RON = Run-on control.

[e] ROFF = Runoff control.

[f] X = Control performs the identified function.

[g] — = Control does not perform the identified function.

[h] n/a = Not applicable.

Attachment 1

Supporting Documentation for Permitted Sites with Certificates of Completion under the New Mexico Environment Department Compliance Order on Consent

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567
www.nmenv.state.nm.us

BILL RICHARDSON
GOVERNOR

RON CURRY
SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 13, 2006

David Gregory, Federal Project Director
Los Alamos Site Operations
Department of Energy
528 35th Street, Mail Stop A316
Los Alamos, New Mexico 87544

David McInroy, Deputy Project Director
Environmental Services
Los Alamos National Laboratory
P.O. Box 1663
Mail Stop M992
Los Alamos, New Mexico 87545

SUBJECT: CERTIFICATES OF COMPLETION FOR SOLID WASTE MANAGEMENT UNITS 53-002(a) AND 53-002(b), TECHNICAL AREA 53 LOS ALAMOS NATIONAL LABORATORY
EPA ID # NM0890010515
HWB-LANL-04-002

Dear Messrs. Gregory and McInroy:

The New Mexico Environment Department (NMED) is in receipt of the *Request for Certificates of Completion for Solid Waste Management Units 53-002(a) and 53-002(b),* dated August 15, 2006 and referenced by EP2006-0744.

Solid waste management unit (SWMU) 53-002(a) consists of two surface impoundments and SWMU 53-002(b) consists of one surface impoundment. Together, these two SWMUs comprise Consolidated Unit 53-002(a)-99. NMED has determined that the requirements of the March 1, 2005 Consent Order (Order) have been satisfied for these sites. NMED hereby issues a "Corrective Action Complete with Controls" certificate of completion for SWMUs 53-002(a) and 53-002(b) pursuant to Section VII.E.6.b of the Order. The control, as stated in the Permittees' approved TA-53 Investigation/Remediation Report, is that the land use remain industrial.

The Permittees may now initiate a "Class 3 Permit Modification for Corrective Action Complete" pursuant to the terms of the Permit and Section III.W.3.b of the Order. If the Class 3 Permit Modification for Corrective Action Complete is granted, SWMUs 53-002(a) and 53-002(b) will be removed from the list of SWMUs requiring corrective action and placed on the "Corrective Action Complete with Controls" list. In accordance with Section III.W.3b, the controls will then be enforceable under the Permit.

If you have any questions, please contact Kathryn Chamberlain of my staff at (505) 428-2546.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

JPB:kmc

cc: K. Chamberlain, NMED HWB
D. Goering, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
L. King, EPA 6PD-N
N. Quintana, LANL E/ER, MS M992
A. Phelps, LANL ADEP, MS J591
file: Reading and LANL '06 TA 53: [SWMU 53-002(a) & 53-002(b)]

CT 07-090
ERID-98441

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

07 [illegible] 16 AM 10:16

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

RON CURRY
Secretary

CINDY PADILLA
Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

August 13, 2007

David Gregory
Federal Project Director
Los Alamos Site Office
Department of Energy
528 35th Street, Mail Stop A316
Los Alamos, NM 87544

David McInroy
Remediation Services Deputy Project Director
Los Alamos National Laboratory
P.O. Box 1663, MS M992
Los Alamos, NM 87545

RE: APPROVAL OF THE INVESTIGATION REPORT FOR CONSOLIDATED UNIT 73-002-99 AND CORRECTIVE ACTION OF SOLID WASTE MANAGEMENT UNIT 73-002, AT TECHNICAL AREA 73, LOS ALAMOS NATIONAL LABORATORY (LANL),
EPA ID #NM0890010515
HWB-LANL-07-016

Dear Messrs. Gregory and McInroy:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security LLC's (LANS) (collectively, the Permittees) *Investigation Report for Consolidated Unit 73-002-99 and Corrective Action of Solid Waste Management Unit 73-002, at Technical Area 73* (Report), dated July 2007 and referenced by LA-UR-07-4479/EP2006-1079. NMED has reviewed this document and hereby issues this Notice of Approval.

Consolidated Unit (CU) 73-002-99 is comprised of the following Solid Waste Management Units (SWMUs) and Area of Concern (AOC):

- SWMU 73-002 is a former incinerator and surface disposal area,
- AOC 73-003 is a former steam-cleaning facility (former building 00-1123) for garbage trucks,
- SWMU 73-004(a) is a former septic system that received sanitary waste from toilets and showers in the incinerator building,
- SWMU 73-004(b) was a concrete septic tank that discharged wash water from the steam-cleaning plant through a 6-in. vitrified clay pipe (VCP) drainline to an outfall on the slope of Pueblo Canyon and,
- SWMU 73-006 consisted of two drainlines that discharged to Pueblo Canyon from the incinerator.

NMED has determined that the requirements of the March 1, 2005 Order on Consent (Order) have been satisfied for these sites. This letter serves as a "Corrective Action Complete with Controls" certificate of completion for SWMUs 73-002, 73-004(a), 73-004(b), 73-006, and AOC 73-003 pursuant to Section VII.E.6.b of the Order.

Although levels of arsenic in discrete locations exceed applicable residential cleanup levels (e.g., 13.2 mg/kg at location 73-27314 at SWMU 73-002 and 13 mg/kg at location 73-02216 at SWMU 73-004(b)), these locations are virtually inaccessible to human or ecological receptors. However, the potential for transport of contaminants down gradient via storm water exists. The Permittees shall therefore install permanent and appropriate storm water controls, which will prevent the down gradient transport of contaminants via storm water. The Permittees must submit a work plan for installation of the storm water controls by September 30, 2007. The work plan shall include a description of all controls proposed for installation at CU 73-002-99 and a proposed inspection schedule for the proposed controls. If the Permittees choose to remove any soil/tuff containing arsenic concentrations above residential screening levels in the future, NMED will consider withdrawal of the control requirement.

Please contact Kathryn Roberts at (505) 476-6041 should you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
K. Roberts, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
L. King, EPA 6PD-N
G. Rael, DOE LASO, MS A316
S. Stiger. ENV MS J591
file: Reading and LANL TA-50 '07 (SWMU; 50-009)

NEW MEXICO
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Hazardous Waste Bureau

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Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 23, 2008

David Gregory
Federal Project Director
Los Alamos Site Office
Department of Energy
528 35th Street, Mail Stop A316
Los Alamos, NM 87544

David McInroy
Remediation Services Deputy Project Director
Los Alamos National Laboratory
P.O. Box 1663, MS M992
Los Alamos, NM 87545

08 JAN 25 AM 11:51

RE: APPROVAL OF LOS ALAMOS NATIONAL LABORATORY PROPOSAL FOR NO FURTHER ACTION
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-02-019

Dear Messrs. Gregory and McInroy:

The New Mexico Environment Department (NMED) has received and reviewed the United States Department of Energy (DOE) and the Los Alamos National Security, LLC (LANS) (collectively, the Permittees) *Los Alamos National Laboratory Proposal for No Further Action*, dated September 2002 and referenced by LA-UR-02-5883/ER2002-0624. The Permittees provided additional information (via an email sent by Linda Nonno to Neelam Dhawan on October 2, 2007) subsequent to conferring with NMED.

NMED has reviewed the document and the additional information, and agrees that no further corrective action is necessary at solid waste management units (SWMUs) 03-011, 03-046, 16-026(f), 16-030(c) and 73-004(c). NMED concurs that the above mentioned SWMUs do not pose unacceptable risk to human health and the environment. NMED has determined that a corrective action complete without controls designation is appropriate for these SWMUs. However, if in the future any additional information becomes available that indicates that the site may pose a risk to human health or the environment, NMED will require the Permittees to conduct additional corrective action at these sites.

NMED is hereby providing this letter as a 'Certificate of Completion,' which satisfies the requirements outlined in the Section VII.E.6.b of the Consent Order. The Permittees may now request a Class 3 Permit Modification for Corrective Action Complete for SWMUs 03-011, 03-046, 16-026(f), 16-030(c) and 73-004(c) pursuant to terms of the Permit and Section III.W.3.b of the Consent Order, to remove these sites from the Module VIII of the Permit.

Please contact Neelam Dhawan of my staff at (505) 476-6042 should you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
K. Roberts, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
G. Rael, DOE LASO, MS A316
S. Stiger ENV MS J591

File: LANL, NFA (SWMUs 03-011, 03-046, 16-026(f), 16-030(c) and 73-004(c)), 2008

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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

'10 APR 7 AM9:32

April 6, 2010

George J. Rael
Environmental Operations Manager
Los Alamos Site Office
Department of Energy
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael Graham
Associate Director Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS 991
Los Alamos, NM 87545

RE: APPROVAL
REQUEST FOR CERTIFICATES OF COMPLETION FOR TWO SOLID WASTE MANAGEMENT UNITS AND FIVE AREAS OF CONCERN IN THE NORTH ANCHO CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-022

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Two Solid Waste Management Units and Five Areas of Concern in North Ancho Canyon Aggregate Area* (Request), dated March 9, 2010 and referenced by EP2010-0117. Results of the associated site investigation were presented in the *Investigation Report for North Ancho Canyon Aggregate Area, Revision 1*, dated January 2010, and referenced by LA-UR-10-0125 and EP2010-0005.

SWMU 39-001(b) is an inactive disposal area consisting of three trenches that accepted debris from firing site SWMU 39-008, empty chemical containers, and office waste. Pit 1 was constructed in the late 1960s. Pit 2 was constructed parallel and directly next to Pit 1 and was used from 1976 to 1981. Pit 3 was constructed directly south of the other two pits and was used from 1981 to 1989. In 2009, the Pits were located, excavated, and the contents were removed. Based on review of associated soil sample analytical data, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates SWMU 39-001(b) does not pose an unacceptable risk to human health or to ecological receptors.

AOC 39-002(c) is a former outdoor satellite accumulation are (SAA) that was located on asphalt-paved areas next to the southwest corner of the gas-gun support structure (39-56). This SAA stored waste paper, solvent-contaminated rags (ethanol, acetone, and trichloroethene), and vacuum grease. In 2009, the SAA was investigated and characterized. Based on review of associated soil sample analytical data, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates AOC 39-002(c) does not pose an unacceptable risk to human health or to ecological receptors.

AOC 39-002(d) is a former SAA that was removed from service, administratively closed, and is no longer used for storage. The site only operated as an SAA and met all regulatory requirements (20.4.1.300 NMAC) for SAAs.

AOC 39-002(e) is a former satellite accumulation area (SAA) that was removed from service, administratively closed, and is no longer used for storage. The site only operated as an SAA and met all regulatory requirements (20.4.1.300 NMAC) for SAAs.

AOC 39-002(f) is a former SAA located on the asphalt driveway outside the northeast corner of a support structure (39-88) for an active firing site (SWMU 39-004(e)). Before this area became a SAA, it was used to store small quantities of waste solvents (ethanol, acetone, and trichloroethene), copper sulfate, transformer oil, vacuum grease, and photographic wastes. Based on review of associated soil sample analytical data from 2009, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates AOC 39-002(f) does not pose an unacceptable risk to human health or to ecological receptors.

SWMU 39-005 is a former seepage pit used to dispose of HE-contaminated decant from operations at an explosives operations building (39-04). The seepage pit measured approximately 5-ft x 5-ft x 7-ft and was not lined or otherwise contained. The gravel and HE-contaminated soil that comprised the pit were removed in 1986. Based on review of associated soil sample analytical data from 2009, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates SWMU 39-005 does not pose an unacceptable risk to human health or to ecological receptors.

AOC 39-007(d) is a storage area (structure 39-142) consisting of a bermed asphalt pad covered with a metal roof. A valved drainpipe discharged stormwater from the bermed area across the access road toward the Ancho Road drainage. The area was initially used to store metal and at times, drums of silicon transformer oil. Later it was used as a SAA where chemicals, including dielectric fluid, ethylene glycol, solvents, and kerosene were stored. The SAA was removed in the 1990s, but the storage area continued to be used to store nonhazardous materials such as cable and wire. Based on review of associated soil sample analytical data from 2009, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates AOC 39-007(d) does not pose an unacceptable risk to human health or to ecological receptors.

NMED has determined that the requirements of the Consent Order have been satisfied and the aforementioned sites qualify for "Corrective Action Complete Without Controls" status. This letter serves as the certificate of completion for SWMUs 39-001(b) and 39-005, and AOCs 39-002(c), 39-002(d), 39-002(e), 39-002(f), and 39-007(d) pursuant to Section VII.E.6.b of the Consent Order.

If, in the future, any additional information becomes available that indicates that one or more of these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites.

Please contact Kathryn Roberts at (505) 476-6041 should you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
K. Roberts, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
L. King, EPA 6PD-N
S. Schulman, DOE-LASO, MS A316
L. Nonno, EP-WES-EDA, MS M992
J. McCann, EP-CAP, MS M992
D. McInroy, EP-CAP, MS M992
file: Reading and LANL TA-39 '10 (SWMUs: 39-001(b) and 39-005, AOCs: 39-002(c), 39-002(d), 39-002(e), 39-002(f), and 39-007(d))

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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 7, 2010

George J. Rael, Federal Projects Director
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Los Alamos Site Office
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Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
UPPER MORTANDAD CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-055**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Three SWMUs and Three AOCs in the Upper Mortandad Canyon Aggregate Area* (Request), dated July 01, 2010 and referenced by EP2010-01293. Results of the site investigations were presented in the *Investigation Report for the Upper Mortandad Canyon Aggregate Area, Revision 1,* dated April 2010.

The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following solid waste management units/ areas of concern (SWMUs/AOCs) and the sites qualify for "Corrective Action Complete".

1. AOC 03-041 is an underground holding tank for industrial low-level radioactive wastewater. The tank is a 15 ft x 20 ft x 15ft double-walled fiberglass corrosion-proof

tank with a leak-detection system. It is located in a below grade concrete-lined vault and the base of the vault is 15 ft below ground surface. Although it is currently on active status, it has never been used. Investigations conducted during 2009 defined the nature and extent of contamination. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-041. NMED hereby issues the Certificate of Completion for AOC 03-041pursuant to Section VII.E.6.b of the Consent Order. Controls are not required at the site.

2. AOC 48-002(e) was a container storage area located on the east side of building 48-0001. The storage area is mostly paved except for a small portion of soil left unpaved to allow access to underground utilities. Investigations conducted during 1993, 1997, and 2009 defined the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. NMED hereby issues the Certificate of Completion for AOC 48-002(e) pursuant to Section VII.E.6.b of the Consent Order. Controls are not required at the site

3. SWMU 48-007(a) is an outfall formerly used to discharge treated cooling tower blowdown from two cooling towers. Water used in these cooling towers was treated to control scale, corrosion, and biological growth. The outfall was formerly listed on the National Pollutant Discharge Elimination System (NPDES) permit but was removed from the NPDES permit in 1999. Investigations conducted during 1993 and 2009 defined the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. Storm water continues to flow through the outfall and may mobilize the residual contamination at the site. The SWMU is monitored under the current NPDES permit. The control for the site is continuation of storm water monitoring under NPDES permit for potential transportation of residual contamination. NMED hereby issues the Certificate of Completion for SWMU 48-007(a) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

4. SWMU 48-007(d) is an outfall formerly used to discharge noncontact cooling water that cooled a vacuum pump. The outfall was formerly listed on the NPDES permit, but was removed from the permit in 1998. Investigations conducted during 1993 and 2009 defined the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. Storm water continues to flow through the outfall and may result in mobilization of the residual contamination at the site. The SWMU is monitored under the current NPDES permit. The control for the site is continuation of storm water monitoring under NPDES permit for potential transportation of residual contamination. NMED hereby issues the Certificate of Completion for SWMU 48-007(d) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

5. SWMU 48-010 is an unlined surface impoundment that received discharge from SWMUs 48-007(a) and 48-007(d). Investigations conducted during 1993, 1995, and 2009 defined

the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. Storm water continues to flow across the site and it is monitored under current NPDES permit. The control for the site is continuation of storm water monitoring under NPDES permit for potential transportation of residual contamination. NMED hereby issues the Certificate of Completion for SWMU 48-010 pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

6. AOC 48-012 is a small area of stained soil that was discovered during routine trenching operations conducted in 2002. The site was reported as a one-time spill. Removal of the contaminated soil was conducted as a voluntary corrective action in 2002. Additional samples were collected in 2009 to define the nature and extent of contamination. Evaluation of human health risk indicates that there is potential unacceptable risk posed by the site under residential scenario, but not under the industrial and construction worker scenario. There are no complete exposure pathways to ecological receptors. The control for the site is industrial land use, the site cannot be used for residential purposes. NMED hereby issues the Certificate of Completion for AOC 48-012 pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

If new information becomes available that indicates that these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites. Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

BRZ:nmd

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316
K. Rich, LANS, EP-CAP, MS M992

File: 2010 LANL, Certificates of Completion Upper Mortandad Aggregate Area (AOC 03-041, AOC 48-002(e), SWMU 48-007(a), SWMU 48-007(d), & SWMU 48-010).

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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 10, 2010

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Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
UPPER LOS ALAMOS CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-056**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Sixteen SWMUs and Nine AOCs in the Upper Los Alamos Canyon Aggregate Area* (Request), dated June 15, 2010 and referenced by EP2010-01284. Results of the site investigations were presented in the *Investigation Report for the Upper Los Alamos Canyon Aggregate Area, Revision 1,* dated February 2010.

The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at following solid waste management units/ areas of concern (SWMUs/AOCs). The sites qualify for Corrective Action Complete without Controls status.

1. AOC 00-031(a) is the potentially contaminated soil beneath a former service station. Historical information and investigations conducted during 2008-2009 confirmed that the

underground storage tanks (USTs) were no longer in place and the analytical results indicated that no residual contamination related to the tanks is present at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 00-031(a). NMED hereby issues this Certificate of Completion for AOC 00-031(a) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

2. AOC 00-034(b) was a suspected pit identified from a 1946 aerial photograph. Based on interviews and examination of aerial photographs it was determined that the identified pit was actually a staging area for soil or tuff fill material used for building roads and home sites and it was never used for land disposal of waste. No documentation of the pit was found. Based on the information provided by the Permittees, NMED has determined that the site does not need further corrective action. NMED hereby issues this Certificate of Completion for AOC 00-034(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

3. SWMU 01-001(t), known as the eastern sanitary waste line, served several former buildings. Currently, the entire SWMU area is either landscaped or beneath streets, parking lots, and commercial buildings. Investigations were conducted in 1993 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-001(t). NMED hereby issues this Certificate of Completion for SWMU 01-001(t) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

4. SWMU 01-001(u) is a branch of the western sanitary waste line that served former building J-2. Based on field screening and soil sample data collected during the radiological survey conducted in 1974-76, the site was not considered contaminated. Currently, the entire SWMU area is beneath residential buildings, parking lots, and a wooded area behind residential buildings. No piping was encountered during the 1994 borehole drilling. Investigations were conducted in 1994 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-001(u). NMED hereby issues this Certificate of Completion for SWMU 01-001(u) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

5. AOC 01-003(c) was a surface disposal area located below the north rim of Los Alamos Canyon. During 1988 and 1996 site visits, no debris was located. During 1996 a few scattered pieces of nonhazardous debris were found near the site. Another site visit was conducted during 2008-2009, revealing that the area is bare with boulders; no debris was observed on the cliff face. The site does not exist anymore. NMED hereby issues this Certificate of Completion for AOC 01-003(c) pursuant to Section VII.E.6.b of the

Consent Order. Based on the information provided, no controls are necessary for this site.

6. AOC 01-006(g) is a storm drainage system that served several buildings and discharged to Los Alamos Canyon. The entire area where drainlines were located has been regraded and developed for residential use. Investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by AOC 01-006(g). NMED hereby issues this Certificate of Completion for AOC 01-006(g) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

7. SWMU 01-006(o) is a storm drainage system that served several buildings and discharged to Los Alamos Canyon. The entire area where drainlines were located has been completely regraded and rebuilt. Currently, the majority of the SWMU area is located beneath pavement and residential buildings. Investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-006(o). NMED hereby issues this Certificate of Completion for SWMU 01-006(o) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

8. SWMU 01-007(d) refers to four areas of suspected subsurface soil radiological contamination between buildings because of overflow of an industrial waste line in 1946. After the overflow all contaminated soil that could be removed was excavated and gravel was spread over the area. Investigations were conducted in 1994 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-007(d). NMED hereby issues this Certificate of Completion for SWMU 01-007(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

9. SWMU 01-007(e) refers to suspected subsurface soil radiological contamination within the footprint of the former Sigma Building. Contaminated soil was excavated from three small areas within the footprint of Sigma Building. Investigations were conducted in 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-007(e). NMED hereby issues this Certificate of Completion for SWMU 01-007(e) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

10. SWMU 03-009(j) is a surface disposal area located west of warehouse 03-142. Interviews with site workers indicated that the soil fill contained construction debris. The site was never used for management of hazardous waste or hazardous constituents. The

area is partially covered by a paved road/parking lot. Investigations were conducted in 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 03-009(j). NMED hereby issues this Certificate of Completion for SWMU 03-009(j) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

11. SWMU 32-001 is the location of a former incinerator that was removed in 1954. It received combustible wastes from a medical research facility; the ash from the incinerator was disposed off-site. Investigations were conducted in 1993, 1996, and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 32-001. NMED hereby issues this Certificate of Completion for SWMU 32-001 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

12. SWMU 41-001 is an inactive septic system that received sanitary waste from a guard house. Investigations were conducted in 1995, 2000, and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 41-001. NMED hereby issues this Certificate of Completion for SWMU 41-001 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

The following sites have been investigated and found to pose no unacceptable risk under current and proposed future land use. The sites require controls and are eligible for Corrective Action Complete status with Controls.

13. SWMU 01-001(b), septic tank 135, served two former buildings that were determined by the Laboratory to be free of contamination in 1964. A radiological survey was conducted in 1974-76 that indicated that the tank and drainlines were not contaminated. The tank and drainlines were removed during 1974-1976 survey. Further investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination, if any. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 01-001(b) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

14. SWMU 01-001(c), septic tank 137, served former building D-2. The tank and its outfall were removed in 1975. Contaminated soil around the tank, drainlines and building D-2

were also removed in 1975. Investigations to define the nature and extent were conducted in 1992, 1993, and 2008-2009. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-001(c). However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. NMED hereby issues this Certificate of Completion for SWMU 01-001(c) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

15. SWMU 01-001(e), septic tank 139, served three former buildings. The tank became inactive in 1965 and was left in place. The tank was not located during the 1974-76 radiological survey and it was concluded that the tank had been previously removed. The entire SWMU area is under roads, residential buildings, driveways and sidewalks. Investigations were conducted in 1992 and 2008-2009 of the accessible areas. Evaluation of human health and ecological risk conducted on samples collected from accessible areas indicates that there is no potential unacceptable risk posed by SWMU 01-001(e). However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. Additionally, the Permittees must investigate the areas of potential contamination that are currently inaccessible due to the presence of structures when they become accessible. The controls for the site are to monitor the storm water discharge for potential transport of contamination from the site, and to prevent exposure of receptors to potential subsurface contamination. This latter control is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for SWMU 01-001(e) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned controls.

16. SWMU 01-003(e) was a surface disposal area located along the northern wall of Los Alamos Canyon. Concrete construction debris, piping, and other miscellaneous objects were observed at the site in the past. A major portion of this site is under fill material brought in by the private owner to extend the canyon rim farther south. Investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risks indicate that there is no potential unacceptable risk posed by SWMU 01-003(e). However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. NMED hereby issues this Certificate of Completion for SWMU 01-003(e) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

17. SWMU 01-006(d) is a drainline and associated outfall that served Building D-3 and discharged to hillside 137. Investigations were conducted in 1992, 1993, and 2008-2009

to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-006(d). However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. NMED hereby issues this Certificate of Completion for SWMU 01-006(d) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

18. SWMU 01-007(j) consists of twelve areas of suspected subsurface soil radiological contamination. These are small isolated contaminated areas in former Technical Area 1 discovered during a radiological survey conducted in 1976. Most of the contaminated soil was removed. These areas are developed with buildings, sidewalks, and roads. Investigations were conducted in 2008-2009 to define the nature and extent of contamination of accessible areas. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-007(j). The Permittees must address the potential contamination beneath the structures when buildings and roadways are demolished or otherwise become accessible. The control for the site is to prevent exposure to receptors from potential subsurface contamination, which is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for SWMU 01-007(j) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

19. AOC 01-007(k) was a suspected soil contamination area located near the U and W buildings. The area is now developed and contains structures and parking lots. Investigations were conducted in 1993 and 2008-2009 to define the nature and extent of contamination in accessible areas. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by AOC 01-007(k). The Permittees must investigate the areas beneath the structures for potential contamination at the time of demolition of these structures. The control for the site is to prevent exposure to receptors from potential subsurface contamination, which is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for AOC 01-007(k) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

20. AOC 03-008(a) is a firing site that was decommissioned in 1949. Review of engineering drawings and aerial photographs indicates that site would have been located near the intersection of Diamond Drive and Jemez Road and is no longer discernible. Currently the site is overlain by a parking garage. The Permittees must address the potential contamination beneath the site when the parking lot is decommissioned. The control for the site is to prevent exposure to receptors from potential subsurface contamination, which is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for AOC 03-008(a) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

21. AOC 43-001(b2) is a storm-drain outfall. It was permitted under the Laboratory's NPDES permit and was removed from the permit on January 11, 1999. Investigations conducted in 2008-2009 defined the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there are potential unacceptable risks under the residential scenario. However, there is no potential unacceptable risk posed under the recreational scenario. The current and reasonably foreseeable future land use for the site is recreational; the control is that the site cannot be used for residential purposes. NMED hereby issues this Certificate of Completion for SWMU 43-001(b2) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

Certificates of Completion are not issued for the following sites because the Permittees have not demonstrated that they do not pose unacceptable risk to human health or environment based on the current applicable standards.

22. AOC 00-031(b), is the potentially contaminated soil associated with the Zia Company motor pool facility. Two USTs and associated piping were removed in 1994. Soil contaminated with petroleum hydrocarbons was removed and the excavation was backfilled and compacted. The Permittees must submit human health and ecological risk evaluations for NMED review and approval. The results of the risk evaluations may be included in the Upper Los Alamos Canyon Aggregate Area Phase II investigation report. NMED hereby denies the Certificate of Completion for the site.

23. AOC C-00-042 was a 2500-gallon steel waste-oil UST associated with the former automotive maintenance hanger at the Zia Company motor pool facility. The hanger was decommissioned and removed in 1962, and the land was subsequently transferred to Los Alamos County in 1967. The area was covered with fill material and asphalt. The tank and surrounding soil were removed in 1995 during VCA activities. The Permittees must conduct human health and risk evaluations using current standards. The results of the risk evaluations may be included in the Upper Los Alamos Canyon Aggregate Area Phase II investigation report. NMED hereby denies the Certificate of Completion for the site.

24. SWMU 01-002 is an outfall and associated industrial waste line that is located in the southern and western portion of Technical Area 1. Several former buildings with various processes discharged waste to the industrial waste lines. In 2000, the SWMU was split into two portions: the waste line portion of the SWMU was designated SWMU 01-002(a)-00, and the outfall was designated as SWMU 01-002(b)-00. For investigation purposes SWMU 01-002(b)-00 was included in the consolidated unit 45-001-00. The Permittees have completed corrective action at SWMU 01-002(a)-00. However, NMED will not issue the Certificate of Completion for the site until risk assessments are conducted by comparing contaminant concentrations to current standards for both sites. NMED hereby denies the certificate of completion for SWMU 01-002.

25. SWMU 01-007(l) is an area of potentially contaminated fill material located under Trinity Drive. The fill material is suspected of containing construction debris and other potentially radioactively contaminated soil from the Building D area. Investigations were conducted in 1993 and 1996. Currently, the site is overlain by Trinity Drive. The Permittees must conduct risk assessments using current standards and demonstrate that the site does not pose an unacceptable threat to human health or the environment. NMED hereby denies the Certificate of Completion for the site.

If new information becomes available that indicates that these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

BRZ:nmd

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316

File: 2010 LANL, Certificates of Completion, Upper Los Alamos Canyon Aggregate Area SWMUs/AOCs

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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DAVE MARTIN
Cabinet Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 14, 2011

George J. Rael, Assistant Manager
Environmental Projects Office
U.S. Department of Energy/National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham
Associate Director Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

RE: CERTIFICATE OF COMPLETION
PUEBLO CANYON AGGREGATE AREA
AREA OF CONCERN (AOC) 00-018(b)
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-096

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificate of Completion for Area of Concern 00-018(b), Bayo Wastewater Treatment Plant, Pueblo Canyon Aggregate Area*, dated December 10, 2010. Results of the associated facility demolition were presented in the *Demolition Documentation Report for the Bayo Canyon Wastewater Treatment Plant, Area of Concern 00-018(b)*, dated April 2010, and referenced by LA-UR-10-2076 and EP2010-0138.

AOC 00-018(b) is the former Bayo Canyon municipal wastewater treatment plant (WWTP) that was owned and operated by Los Alamos County. The Bayo WWTP was demolished by the County between October 2009 and February 2010. Although the evaluation of potential human health and ecological risks from the site indicated that AOC 00-018(b) does not pose an unacceptable risk to human health or to ecological receptors as presented and discussed in the July 2008 *Investigation Report for Pueblo Canyon Aggregate Area Revision 1* (LA-UR-08-4765 and EP2008-0391), NMED required the Permittees to observe and document demolition of the plant to ensure that contaminant releases had not occurred or were not present beneath site structures.

NMED has determined that the requirements of the Consent Order have been satisfied and the site qualifies for "Corrective Action Complete Without Controls" status. NMED hereby issues this certificate of completion for AOC 00-018(b) pursuant to Section VII.E.6.b of the Consent Order.

If, in the future, any additional information becomes available that indicates that the site may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at the site.

Please contact Daniel Comeau at (505) 476-6043, should you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
D. Comeau, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
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L. King, EPA 6PD-N
B. Coel-Roback, LANL, EP-CAP, MS M992
C. Rodriguez, DOE-LASO, MS A316

File: LANL Pueblo Canyon Aggregate Area, AOC 00-018(b), Certificate of Completion -- 2011

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Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Cabinet Secretary

RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

February 18, 2011

George J. Rael, Assistant Manager
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Department of Energy/National
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Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, LLC
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Los Alamos, NM 87545

RE: **CERTIFICATES OF COMPLETION**
UPPER SANDIA CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-099

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Eight Solid Waste Management Units and Sixteen Areas of Concern in the Upper Sandia Canyon Aggregate Area* (Request), dated December 6, 2010 and referenced by EP2010-0540. Results of the site investigations were presented in the *Investigation Report for the Upper Sandia Canyon Aggregate Area, Revision 1,* dated October 2010.

The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following Solid Waste Management Units/Areas of Concern (SWMUs/AOCs).

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1. **SWMU 03-003(c)** is the location of a former temporary equipment storage area for used dielectric fluids and capacitors adjacent to the former building 03-287 at TA-3. Building 03-287 was constructed between 1966 and 1968 and used for experiments until the mid-1980s. The sealed capacitors containing non-polychlorinated biphenyl (PCB) dielectric oil were temporarily stored in this area. Before the remodeling of building 03-287 in late 1992 and early 1993, a single surface sample was collected and analyzed for PCBs; no PCBs were detected. Samples of asphalt and fill collected in 2001 indicated the presence of PCBs. In 2003 and 2004, building 03-287 underwent decommissioning that included removal of the building and all of the asphalt paving and fill directly beneath the asphalt including location of SWMU 03-003(c). The entire area was graded and leveled, and approximately 10 ft of clean fill was placed over the entire site to accommodate construction of a new facility. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by SWMU 03-003(c). NMED hereby issues this Certificate of Completion for SWMU 03-003(c) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

2. **AOC 03-003(n)** is the location of a one-time PCBs spill in the salvage yard at Technical Area (TA)-3. With the exception of two small areas, most of the area is asphalt-paved. The salvage yard was used to store transformers, electrical equipment, batteries, and scrap metal. In 1977, a transformer ruptured and spilled approximately 10 gallons of PCB-contaminated oil into the soil. The salvage operation and material were moved to a building in 1993. Investigations conducted in 1994 and 2009 defined the nature and extent of contamination. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-003(n). NMED hereby issues this Certificate of Completion for AOC 03-003(n) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

3. **AOC 03-003(o)** is the location of a former capacitor bank that was used for experiments in former building 03-287 at TA-3. The sealed capacitors contained non-PCB dielectric fluid oil; each of the associated spark gap switches at the building 03-287 required approximately two quarts of non-PCB mineral oil for electrical insulation. The experiment was decommissioned in mid-1980s and all of the capacitors were removed from the building. Oil samples from spark gap switches and swipe samples from the surfaces within the building were collected and analyzed for PCBs. PCBs were detected at concentrations of less than two parts per million. In 2003 and 2004, building 03-287 underwent decommissioning that included removal of the building all the asphalt paving and fill directly beneath the asphalt including location of SWMU 03-003(c). The entire area was graded and leveled, and approximately 10 feet of clean fill was placed over the entire site to accommodate construction of a new facility. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-003(o). NMED hereby issues this Certificate of Completion for AOC 03-003(o)

pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

4. **SWMU 03-014(q)** is the treated effluent storage tank located at the TA-3 power plant. Between 1951 and 1985, the tank received and stored effluent from the former wastewater treatment plant, for use as cooling water for the power plant cooling towers. The effluent was pumped to the holding tank and treated with chromate to hinder bacterial growth. The tank currently receives treated effluent from the TA-46 Sanitary Wastewater Systems Consolidation Plant to use at the power plant. The effluent is treated in a wastewater neutralization tank to adjust pH before use and subsequent discharge to an outfall. Investigations were conducted in 2009 indicating that there is no potential unacceptable risk posed by SWMU 03-014(q) to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-014(q) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

5. **AOC 03-014(v)** is the location of a former floor drain within building 03-36, that was installed in 1953 and connected to the sanitary sewer line tied to the former waste water treatment plant at TA-3. Building 03-36 and the soil beneath its footprint were removed in 1999. The area was further excavated to a depth of approximately 15 ft below grade to accommodate the foundation of new building. The depth of the excavation was approximately 8 ft deeper than the two confirmation samples collected in 1999. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-014(v). NMED hereby issues this Certificate of Completion for AOC 03-014(v) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

6. **AOC 03-027** is comprised of two former concrete-block lined lift wells located beneath the hydraulic lifts at a former garage (building 03-36) at TA-3. The lift wells collected floor wash water that contained residual oil and rinse water containing nitric acid. The garage was removed in 1999 for the construction of a new building. Building 03-36 and the soil beneath its footprint were removed in 1999. After demolition of the building in 1999, nine fill and tuff samples were collected from six locations within the footprint of the former lift wells. The area was further excavated to a depth of approximately 15 ft below grade to accommodate the foundation of new building. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-027. NMED hereby issues this Certificate of Completion for AOC 03-027 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

7. **SWMU 03-028** is a former 12 ft x 15 ft x 6 ft deep concrete holding pond that was located at the northeast corner of the former asphalt batch plant. The site was used as a settling pond for mineral dust and particulates from gravel captured by scrubber water from the asphalt batch plant. Sediment from the bottom of the holding pond was

periodically removed and disposed of in a former landfill located southeast of the plant. Water from the pond was recycled to the scrubber system and replenished with potable water. During decommissioning of the asphalt batch plant in 2003, the pond sediment and water was removed from the pond, the pond filled with clean soil and gravel, and the surface of the site paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-028 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

8. **SWMU 03-036(a)** is the location of two former asphalt emulsion product tanks at the former TA-3 asphalt batch plant. The tanks were 25 to 30 ft in diameter and 8 to 12 ft high. The tanks were located within a soil-bermed secondary containment area. Spills that occurred from plant operations were contained within the bermed area. Both tanks were removed and disposed of at the Los Alamos County Landfill in 1988 or 1989, as was soil around and beneath the tanks. The surface of the site was paved with asphalt for use as a parking lot in 2003. Results of investigations conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-036(a) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

9. **AOC 03-036(b)** is a former location of two 25- to 50-gallon aboveground storage tanks located at the former asphalt batch plant at TA-3. The tanks were surrounded by 3-ft soil berm and stored kerosene and No. 2 diesel fuel. The use of the tanks started in 1960. In 2002, the tanks, the soil berm, and stained soils were removed during decommissioning of the asphalt batch plant. Results of the investigation conducted in 2003 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-036(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

10. **SWMU 03-036(c)** is the location of two former asphalt emulsion storage tanks at the former TA-3 asphalt batch plant. The tanks were removed and disposed of at the Los Alamos County Landfill. The inspection of tanks indicated that the tanks had not leaked. The asphalt batch plant was decommissioned in 2002. In 2003, the site was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-036(c) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

11. **SWMU 03-036(d)** is the location of two former asphalt emulsion storage tanks (former structures 03-75 and 03-76) at the former TA-3 asphalt batch plant. The tanks were

removed and disposed of at the Los Alamos County landfill. The inspection of tanks indicated that the tanks had not leaked. The asphalt batch plant was decommissioned in 2002. In 2003, the site was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-036(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

12. **AOC 03-038(c)** is a 2-in cast-iron drainline that formerly carried rinse solution from a copper electroplating bath to an industrial waste line. Plating and acid solutions were washed of the circuit boards and down the drain. The electroplating bath initially operated in the 1960s and ceased operations in the early 1970s. The drainpipe was cut and capped inside the wall to make it inaccessible. Results of an investigation conducted in 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-038(c) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

13. **AOC 03-043(a)** is a former 20,000-gal aboveground storage tank, installed in 1948 at the former asphalt batch station at TA-3. The tank was removed in 1963 and disposed of at the Los Alamos County Landfill, and replaced by another storage tank (AOC 03-043(f)). In 2003, the surface was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(a) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

14. **AOC 03-043(b)** is the location of a former 10, 000-gallon aboveground asphalt emulsion storage tank, installed in 1948 at the former TA-3 asphalt batch plant. In 1980, the tank was removed and disposed of at the Los Alamos County Landfill, as was stained soil observed beneath and around the tank. The asphalt batch plant was decommissioned in 2002. In 2003, the surface of the site was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

15. **AOC 03-043(d)** is the former aboveground asphalt storage tank (former structure 03-76) at the former asphalt batch plant at TA-3. The tank was removed and disposed of at the Los Alamos County Landfill in 1988 or 1989. The surface of the site was paved with asphalt for use as a parking lot in 2003. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-

043(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

16. **AOC 03-043(f)** is the location of a former aboveground storage tank (former structure number 03-178) at the former asphalt batch station at TA-3. The tank was removed, disassembled, disposed of at Los Alamos County Landfill. In 2003, the surface was paved with asphalt for use as a parking lot. The potential soil contamination associated with the former tank was included in the investigations conducted at SWMUs 03-036(c) and 03-036(d). Results of the investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(f) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

17. **AOC 03-043(g)** is the location of a former aboveground asphalt storage tank (former structure number 03-335) at the former asphalt batch station at TA-3. The tank was removed and disposed of at the Los Alamos County Landfill. In 2003, the surface was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(g) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

18. **AOC 03-043(h)** is the former aboveground asphalt storage tank (former structure 03-75) at the former asphalt batch plant at TA-3. The tank was removed and disposed of at the Los Alamos County Landfill in 1988-1989. The surface of the site was paved with asphalt for use as a parking lot in 2003. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(h) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

19. **AOC 03-047(d)** is the location of a former container storage area at TA-3. The storage area consisted of an asphalt pad where drums of new motor oil, used oil, and Stoddard solvent were stored from 1954-1989. The asphalt pad was removed when the area was decommissioned in 1989. Investigations conducted in 1995 indicated that the residual contamination posed no unacceptable risk to human health and ecological receptors. In 2002, before the installation of a concrete pad, soil was excavated within the boundary of AOC 03-047(d). Two days later, a waterline ruptured at the TA-3 power plant and eroded all remaining soil/fill, including the 1995 sampling locations. The location of the AOC 03-047(d) was backfilled with more than five ft of clean fill to bring the site back up to grade. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. NMED hereby issues this Certificate of

Completion for AOC 03-047(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

20. **SWMU 03-056(l)** is the location of a former outdoor storage area at TA-3. Containers of disposable clothing contaminated with beryllium powder and carboys used to store beryllium powder in water were reportedly staged at this location before disposal. There are no documented releases from the drums or carboys to the environment. Results of the investigations conducted in 2003 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-056(l) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

21. **AOC C-03-016** is a former oil cleanout bin that was located north of the former asphalt batch plant at TA-3. The bin was approximately 4 ft x 16 ft x 3 ft deep, had a hinged lid, and was buried with the top flush to the ground surface. The bin was installed in the mid-1970s and contained used asphalt emulsion oil. In the late 1980s, the stained area surrounding the bin was removed. Clean sand and gravel was placed around the bin. The bin and stained soils around the bin were removed in the late 1990s. In 2003, the surface of the site was paved with asphalt for use as a parking lot. Results of investigations conducted in 2003 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC C-03-016 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

22. **AOC 60-004(b)** is a former storage area at TA-60 for 12 containers of diesel sludge removed from underground tanks at the TA-3 power plant. The containers were staged at this area in 1988. Results of investigations conducted in 1994 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 60-004(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

23. **AOC 60-004(d)** is the location of a former storage area at TA-60. The containers were staged at this area in 1988. The area was formerly used to temporarily stage drums containing fluids removed from underground storage tanks. Decommissioned underground storage tanks were also dismantled at this location. The storage area was first used in 1979. Results of investigations conducted in 1994 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 60-004(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

The following site is eligible for Corrective Action Complete with Controls.

24. **SWMU 03-056(c)** is an inactive outdoor transformer storage area located at TA-3. The area was used to store electrical equipment, capacitors, and transformers with PCB-containing dielectric oils. Waste solvents used to clean electric equipment were also stored at this location. Investigations and remedial actions were conducted at the site in 1994, 1995, 2000, and 2001. The nature and extent of contamination was defined and confirmatory sample results indicated that the site met the Environmental Protection Agency's PCB cleanup criterion of less than 1 part per million. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute and maintain a control on the site by monitoring storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 03-056(c) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

If new information becomes available that indicates that these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316
K. Rich, LANS, EP-CAP, MS M992

File: 2011 LANL, Certificates of Completion, Upper Sandia Canyon Aggregate Area SWMUs/AOCs

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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 3, 2011

George J. Rael, Assistant Manager
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Department of Energy/National
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Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991
Los Alamos, NM 87545

RE: **CERTIFICATES OF COMPLETION**
MATERIAL DISPOSAL AREA V, TECHNICAL AREA 21
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-11-030

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Four Solid Waste Management Units and One Area of Concern at Material Disposal Area V, Technical Area 21* (Request), dated May 13, 2011 and referenced by EP2011-0138. Results of the site investigations were presented in the *Investigation Report for Consolidated Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21, Revision 1,* dated July 2007 and the *Supplemental Investigation Report for Consolidated Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21, Revision 1,* dated April 2008.

To determine extent of subsurface tritium contamination, the Permittees implemented the *Vadose Zone Subsurface Characterization and Vapor-Monitoring Well Installation Work Plan for Material Disposal Area V, Consolidated Unit 21-018(a)-99, Revision 1*, dated August 2009. Four rounds of quarterly sampling were conducted and periodic monitoring reports were submitted to

NMED in December 2009, March 2010, June 2010, and October 2010. The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following Solid Waste Management Units/Areas of Concern (SWMUs/AOCs).

SWMU 21-013(b) is the location of a former surface debris disposal site located immediately south of MDA V on the south-facing slope leading into BV Canyon. It is not known how long this site received building debris; however, it did not receive waste after 1994. SWMU 21-013(b) contained the external concrete piers, the concrete building foundations, and other building debris derived from the 1965 demolition of the laundry facility (building 21-20 [SWMU 21-018(b)]) and a waste treatment laboratory (building 21-33 [AOC 21-009]). The debris was removed in 2005 and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-013(b) pursuant to Section VII.E.6.b of the Consent Order.

SWMU 21-018(a), more commonly referred to as Material Disposal Area (MDA) V, is an approximately 1-acre site located immediately south of the former laundry facility [building 21-20; SWMU 21-018(b)]. The SWMU consists of three interconnected liquid waste absorption beds. MDA V was constructed to receive radioactive liquid wastewater from the laundry facility and was designed to enhance the infiltration of liquids into the tuff bedrock. The absorption beds were constructed in 1945 and operated until 1961. They remained on stand-by status until September 1963 when they were permanently removed from service. All absorption bed material and associated piping was removed and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. In addition, in the letter entitled *Extended Tritium Sampling at Material Disposal Area V*, dated February 15, 2011 and referenced by EP2011-0058, the Permittees commit to continue quarterly vapor monitoring at MDA V in connection with remedial actions currently in progress at MDA B. The need for continued vapor monitoring at MDA V will be reconsidered upon completion of the review of the final report detailing remedial actions at MDA B. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-018(a) pursuant to Section VII.E.6.b of the Consent Order.

SWMU 21-018(b) is a former laundry facility (building 21-20) located at the eastern end and south of DP Road, immediately west of the security fence that encloses other former TA-21 facilities. Operational from 1945 to 1961, the laundry facility was used to wash personal protective clothing and other reusable cloth items used in both research and production operations involving radioactive materials at TA-21. It is estimated that the laundry facility generated approximately two million gallons of effluent annually, which was discharged to MDA V. The laundry facility was a wood-frame structure with both concrete slab and wood-framing-on-pier floors. The wood portions of the building were decommissioned and demolished in 1965 and taken to MDA G where the debris was burned. The concrete foundation and associated piping were bulldozed over the edge of DP Mesa onto the south-facing slope of BV Canyon. Investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. NMED hereby issues this Certificate of Completion for SWMU 21-018(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

SWMU 21-023(c) is a former septic system that consisted of a tank, inlet and outlet lines, and an outfall that served a waste treatment laboratory (building 21-33 [AOC 21-009]). The septic tank was located immediately west of the MDA V absorption beds and was constructed of reinforced concrete. The inlet and outlet lines were 4-inch vitrified clay pipe (VCP); the outlet line surfaced 40 feet southwest from the tank, approximately 30 feet from the canyon edge above BV Canyon. The outfall area extended south into BV Canyon. The waste treatment laboratory septic system was put into service in 1948. Wastewater was pumped from a sump in building 21-33 through the septic system. The tank was removed in 1965 and taken to MDA G. Investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-023(c) pursuant to Section VII.E.6.b of the Consent Order.

AOC 21-013(g) is located immediately south of MDA V on the south-facing slope leading into BV Canyon and has historically been described as a surface debris disposal site. It is not known how long the site received building debris; however, it did not receive waste after 1994. AOC 21-013(g) consisted of two discarded drainlines and miscellaneous building materials of unknown origin. The debris was removed in 2005 and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-013(g) pursuant to Section VII.E.6.b of the Consent Order.

If new information becomes available that indicates that these sites pose a potential risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites in the future.

Please contact Ben Wear at (505) 476-6041, if you have any questions.

Sincerely,

John E. Kieling
Acting Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
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W. Woodworth, DOE LASO, MS A316
A. Russell, DOE-LASO
B. Wedgeworth, EP-TA-21 Closure Project, MS M992
D. McInroy, EP-CAP, MS M992
W. Alexander, EP-BPS, MS M992

File: 2011 LANL, Certificates of Completion, MDA V, TA-21 SWMUs/AOCs

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BUTCH TONGATE
Deputy Secretary

EP2012-5112

U1201076

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 16, 2012

Pete Maggiore
Assistant Manager
Environmental Projects Office
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Michael J. Graham
Associate Director
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Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
ONE SOLID WASTE MANAGEMENT UNIT AND ONE AREA OF CONCERN IN THE GUAJE/BARRANCAS/RENDIJA CANYONS AGGREGATE AREA
EPA ID #NM0890010515
HWB-LANL-12-008**

Dear Messrs. Maggiore and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for One Solid Waste Management Unit and One Area of Concern in the Guaje/Barrancas/Rendija Canyons Aggregate Area*, dated February 02, 2012 and referenced by EP2012-0026.

One solid waste management unit (SWMU) 00-011(c) and one area of concern (AOC) C-00-020 were recommended for corrective action complete without controls in the *2011 Biennial Ordnance Survey Report* (Report), dated December 2011 (LA-UR-11-6766/EP2011-0383). NMED reviewed the Report and concurred with the conclusion that there is no need to conduct further ordnance surveys at these two sites (December 28, 2011). The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for completion of corrective action at these sites.

Based on the results of investigations, the following sites within the Guaje/Barrancas/Rendija canyons Aggregate Area qualify for Corrective Action Complete Without Controls status.

SWMU 00-011(c) is a suspected mortar impact area located on U. S. Forest Service land in a tributary of Rendija canyon north of the Sportman's club small-arms firing range. The area is approximately 10 acres and may have been used as a mortar impact area in the 1940s. A RCRA facility investigation (RFI) conducted in 1993 included an ordnance survey that did not find any munitions debris (MD) at the site and the Permittees concluded that the site was never used as an ordnance impact area. In October 2006, another munitions debris survey was conducted at the site and no MD or muntions of explosive concern (MEC) were found at SWMU 00-011(c). At NMED's direction, additional ordnance surveys were conducted in 2009 and 2011 and no MD or MEC was found at the site during either survey. The Permittees have demonstrated that the SWMU 00-011(c) is eligible for corrective action complete without controls.

AOC C-00-020 is a 30-acre suspected mortar impact area located along the north valley wall of Rendija Canyon on U. S. Forest Service land. The site was thought to be a former impact area because of the presence of "U.S. Property-No trespassing" signs posted along the southern edge of the area. In 1991, an ordnance team inspected the site and concluded that the site was not a former impact area. A RFI was conducted in 1993 that included an ordnance survey. No MD or MEC was observed at the site. In October 2006, another munitions debris survey was conducted at the site and no MD or MEC were found at AOC C-00-020. At NMED's direction, additional ordnance surveys were conducted in 2009 and 2011 and no MD or MEC was found during the surveys. The Permittees have demonstrated that the AOC C-00-020 is eligible for corrective action complete without controls.

If new information becomes available that indicates that any of these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional investigation or remediation. NMED hereby issues this Certificate of Completion for 2 sites discussed above pursuant to section VII.E.6.b of the Consent Order.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316
T. Haagenstad, EP-CAP, MS M992

File: 2012 LANL, Certificates of Completion for Guaje/barrancas/Rendija Canyons AA Sites (LANL 12-008)

U1201076

ERID-520940

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Director
Resource Protection Division

EP2012-5183

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

July 13, 2012

Peter Maggiore, Assistant Manager
Environmental Projects Office
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

RE: APPROVAL OF REQUEST FOR CERTIFICATES OF COMPLETION FOR SIX SOLID WASTE MANAGEMENT UNITS AND ONE AREA OF CONCERN IN THE UPPER CAÑADA DEL BUEY AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-11-049

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Six Solid Waste Management Units and One Area of Concern in the Upper Cañada Del Buey Aggregate Area* (Request), dated July 14, 2011, and referenced by EP2011-0242.

The request included the following Solid Waste Management Units (SWMUs) and Area of Concern (AOC):

SWMU 46-002, Surface Impoundment
SWMU 46-004(m), Inactive Outfall
SWMU 46-004(p), Inactive Dry Well
SWMU 46-006(b), Former Storage Shed
SWMU 46-006(g), Storage Area
SWMU 52-001(d), Former Facility Equipment
AOC C-46-001, Spill/Release Area

These SWMUs and the AOC were recommended for corrective action complete in the report entitled *Investigation Report for Upper Cañada del Buey Aggregate Area, Revision 1* (Report), dated May 2011 that summarized work completed in 2010. NMED approved the Report on May 31, 2011. The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for completion of corrective action at these sites.

SWMU 46-002 is a surface impoundment system located at the eastern end of TA-46, southeast of the prototype fabrication building (46-77). The impoundment system was constructed in the early 1970s to receive sanitary wastewater from buildings located within the restricted access area of Technical Area (TA)-46. The lagoon was removed from service in the early 1990s when the Sanitary Wastewater System Consolidation (SWSC) plant came online. The outfall from the surface impoundment system had been removed from the National Pollutant Discharge Elimination System (NPDES) permit by 1993. Based on the risk screening assessment results, no potential unacceptable risks or doses from contaminants of potential concern (COPCs) exist for the industrial, construction worker, and residential scenarios. No potential ecological risks exist for any receptor following evaluations based on minimum ecological screening levels (ESLs), hazard index (HI) analyses, comparison with background concentrations, potential effects to plant and animal populations, and lowest observed adverse effect level (LOAEL) analyses.

SWMU 46-004(m) is a former NPDES-permitted outfall located approximately 60 ft north of building 46-30 at TA-46. The outfall protrudes from a slope on the hillside north of building 46-30. The outfall discharged effluent from an industrial drainline in building 46-30 to a ditch at the foot of the bank. In December 1995, the outfall was removed from the NPDES permit. Before the outfall was removed from the NPDES permit, all discharges to the outfall from building 46-30 ceased. Based on the risk screening assessment results, no potential unacceptable risks or doses from COPCs exist for the industrial, construction worker, and residential scenarios. No potential ecological risks exist for any receptor following evaluations based on minimum ESLs, HI analyses, comparison with background concentrations, potential effects to plant and animal populations, and LOAEL analyses.

SWMU 46-004(p) is an inactive dry well located next to the southwest corner of building 46-1 at TA-46. The dry well consists of corrugated metal pipe, approximately two feet in diameter and 10 feet in length, placed vertically in the ground, with a square concrete pad around the top three feet of the pipe, and covered with a hinged-metal lid. Building 46-1 housed offices, two assembly bays, a machine shop, several laboratories for the assembly and checkout of electrical components, general laboratories, and a uranium polishing area. All COPCs identified for

SWMU 46-004(p) were reported in samples collected from depths greater than 10 feet below ground surface (bgs). Therefore, no complete pathways to receptors for any of the exposure scenarios exist, and human health risk-screening assessments were not conducted for this site. All COPCs identified for SWMU 46-004(p) were reported in samples collected from depths greater than 10 feet bgs. Therefore, no complete pathways to any ecological receptors exist, and an ecological risk screening assessment was not conducted for this site.

SWMU 46-006(b) is a former storage shed that was located approximately 40 feet north of the Laser Isotope Support Facility at TA-46. The shed was installed sometime before 1977. The site of the shed is paved with asphalt and slopes toward a storm drain to the southeast. The shed was removed in 1990. Based on the risk-screening assessment results, no potential unacceptable risks from COPCs exist for the industrial, construction worker, and residential scenarios. No potential ecological risks exist for any receptor following evaluations based on minimum ESLs, HI analyses, comparison with background concentrations, potential effects to populations (individuals for threatened and endangered species), and LOAEL analyses.

SWMU 46-006(g) is a storage shed located at the west end of building 46-31 at TA-46. The shed is of corrugated-steel construction and measures 10 feet by 20 feet. From 1982 to 1984, the shed housed vacuum pumps used in experiments involving plasma vaporization of depleted uranium powder. The area around the shed is level and paved. Based on the risk-screening assessment results, no potential unacceptable risks from COPCs exist for the industrial, construction worker, and residential scenarios. No potential ecological risk was found for any receptor following evaluations based on minimum ESL, HI analyses, comparison with background concentrations, potential effects to populations (individuals for threatened and endangered species), and LOAEL analyses.

SWMU 52-001(d) used to contain various facility equipment. This site operated from 1967 to 1968 and underwent decontamination and decommissioning in 1989. Supplemental information provided to NMED in 2008 demonstrated that any releases outside building 52-01 would be associated with the other SWMUs associated with the building and additional sampling of SWMU 52-001(d) was not necessary.

AOC C-46-001 is the location of a one-time spill of mercury in the vicinity of building 46-75 at TA-46. On July 22, 1975, 0.55 to 1.1 lb of mercury spilled on the ground near building 46-75. The spill was cleaned up shortly after it occurred and aerial photos show the entire area surrounding building 46-75 was paved at the time of the spill. A human health risk assessment was not performed for AOC C-46-001 because no COPCs were identified for the site. Therefore, no potential unacceptable risks from COPCs exist for the industrial, construction worker, and residential scenarios. An ecological risk assessment was not performed for AOC C-46-001 because no COPCs were identified for the site. Therefore, no potential risks from COPCs to ecological receptors exist.

NMED has reviewed the Request and, based on review of associated soil sample analytical data, the nature and extent of contamination at the SWMUs and AOC have been defined. NMED has determined that the requirements of the Consent Order have been satisfied and the sites qualify for "Corrective Action Complete Without Controls" status. NMED hereby issues this certificate for the SWMUs and AOC listed above pursuant to Section VII.E.6.b of the Consent Order.

If, in the future, any additional information becomes available that indicates the site(s) may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at the site(s).

If you have any questions regarding this letter, please contact Daniel Comeau at (505) 476-6043.

Sincerely,

David Cobrain for

John E. Kieling
Acting Chief
Hazardous Waste Bureau

cc: N. Dhawan, NMED HWB
D. Cobrain, NMED HWB
D. Comeau, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE-LASO, MS A316
K. Rich, EP-CAP, MS M992

File: 2011 – Approval_Rqst_for_CoCs, Upper CdB AA; LANL-11-049

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IDR-EP-7.17.2012-452698

ERID-521776

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EP2013-5011

IRM-RMS, LANL
U1300332

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

December 20, 2012

Pete Maggiore
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Jeffrey D. Mousseau
Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

RE: CERTIFICATE OF COMPLETION
ONE AREA OF CONCERN IN THE UPPER LOS ALAMOS CANYON AGGREGATE AREA
EPA ID #NM0890010515
HWB-LANL-12-069

Dear Messrs. Maggiore and Mousseau:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificate of Completion for One Area of Concern in the Upper Los Alamos Canyon Aggregate Area*, dated December 18, 2012 and referenced by EP2012-0301.

Area of Concern (AOC) 32-003 was recommended for corrective action complete without controls in the *Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32, Revision 1* February 2011. NMED issued a Direction to Modify letter for the Report (April 6, 2011) that did not require any additional work at AOC 32-003.

AOC 32-003 is a location of a former transformer station, structure 32-10. It consisted of three transformers on a wooden platform suspended on poles approximately 20 ft. off the ground. It is located northwest of the solid waste management unit 32-002(b) septic tank and directly south of former building 32-01, and was discovered during the investigations conducted in 1993. Investigations were conducted at the site in 1993, 1996, 2008, and 2010. Based on the results of the risk screening assessments, no potential unacceptable risk from residual contamination exists for the industrial, construction worker, recreational, and residential scenarios. No potential unacceptable risks to ecological receptors are present at the site.

In accordance with Section VII.E.6.b of the Order on Consent, NMED hereby issues a Certificate of Completion without Controls for AOC 32-003.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
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S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316
T. Haagenstad, EP-CAP, MS M992

File: 2012 LANL, Certificate of Completion for AOC 32-003, Upper Los Alamos Canyon AA (LANL 12-069)

ERID-521746

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EP2013-5008

IRM-RMS, LANL
U1300346

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

December 28, 2012

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Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
TWO SOLID WASTE MANAGEMENT UNITS AND ONE AREA OF CONCERN IN THE UPPER LOS ALAMOS CANYON AGGREGATE AREA
EPA ID #NM0890010515
HWB-LANL-12-072**

Dear Messrs. Maggiore and Mousseau:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Two Solid Waste Management Units and One Area of Concern in the Upper Los Alamos Canyon Aggregate Area*, dated December 20, 2012 and referenced by EP2012-0304.

1. **Solid waste management unit (SWMU) 32-002(b1)** is a part of a former septic system that served former buildings 32-01 and 32-02 at former technical area (TA) 32. Former TA-32 was decommissioned in 1954. SWMU 32-002(b1) is the portion of the former septic system (32-002(b)) that is located on property currently owned by Los Alamos County (LAC). The remainder of the septic system is located on the property owned by

DOE and is designated as 32-002(b2). SWMU 32-002(b) was split into two separate SWMU in December 2012 through a permit modification to facilitate commercial development of the property owned by LAC. The outfall for SWMU 32-002(b) is located at the edge of Los Alamos Canyon, which is now part of SWMU 32-002(b2). The septic tank was removed in 1998, and the influent drainline was removed in 1996. Research activities mainly involved radionuclides, but other inorganic and organic chemicals were likely also used at the laboratory. Investigations were conducted at the site in 1996, 2008, and 2010.

The results of the investigations are reported in the *Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32, Revision 1* (dated February 2011 and referenced by LA-UR-11-1177/EP2011-0064) and *Supplemental Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32* (dated December 2012 and referenced by LA-UR-12-27053/EP2012-0306). Based on the results of the risk screening assessments, no potential unacceptable risk from residual contamination exists for the recreational, industrial, and construction worker scenario. However, the site does pose potential unacceptable risk under a residential exposure scenario. The site does not pose potential risk to ecological receptors under the proposed land use scenario. SWMU 32-002(b1) qualifies for corrective action complete with controls status. The control for the site is that the land use must be maintained as industrial.

2. **Area of Concern (AOC) 32-004** consists of a former drainline and outfall that served building 32-03 and discharged to Los Alamos Canyon. Building 32-03 was an office building and contained a vault room where a radioactive source was stored. The drainline at AOC 32-004 led directly to an outfall at the edge of the mesa without passing through a septic tank. Building 32-03 was removed when TA-32 was decommissioned in 1954. A section of the drainline located on LAC property was removed in 1996. Investigations were conducted at the site in 1993, 1996, 2008, and 2010.

   The results of the investigations were reported in the *Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32, Revision 1* (dated February 2011 and referenced by LA-UR-11-1177/EP2011-0064). Based on the results of the risk screening conducted at the site, AOC 32-004 does not pose a potential unacceptable risk for the industrial, recreational, and construction worker land use scenarios. No potential unacceptable risks to ecological receptors are present at the site under the proposed industrial/commercial land use scenario. However, potential unacceptable risk exists under a residential land use scenario. AOC 32-004 qualifies for corrective action complete with controls status. The control is to maintain the land use as industrial.

3. **SWMU 32-002(a)** is a former septic system that was installed in 1944 and served former building 32-01. The outlet drainline discharged to the edge of Los Alamos Canyon.

Former building 32-01 operated as a research laboratory from 1944-1954. Research activities mainly involved radionuclides, but inorganic and organic chemicals were likely also used at the laboratory. Former TA 32 was decommissioned in 1954. The septic tank was removed prior to 1996, but historical records of the removal activities are not available. The drainlines were removed in 1996. Investigations were conducted in 1996, 2008, 2010, and 2011.

The results of the investigations were reported in the *Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32, Revision 1* (dated February 2011 and referenced by LA-UR-11-1177/EP2011-0064) and *Supplemental Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32* (dated December 2012 and referenced by LA-UR-12-27053/EP2012-0306). Results of the investigations were used to evaluate the risk posed by the site. The site does not pose any unaceptable risk under an industrial land use scenario. However, the construction worker scenario was not evaluated. The Permittees must evaluate the risk posed to a construction worker by residual contamination at the site. The ecological risk evaluation indicated that the site does not pose unacceptable risk to the ecological receptors under the proposed land use scenario. NMED will make the corrective action completion determination after reviewing the results of evaluation of potential risk posed to a construction worker to be submitted by the Permittees.

NMED hereby issues a Certificate of Completion with Controls for SWMU 32-002(b1) and AOC 32-004. If new information becomes available that indicates that any of these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc:

J. Davis, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N

E. Worth, DOE LASO, MS A316
T. Haagenstad, EP-CAP, MS M992

File: 2012 LANL, Certificates of Completion for TA-32, Upper Los Alamos Canyon AA Sites (LANL 12-072)

Attachment 2

Supporting Documentation for
Analysis of Polychlorinated Biphenyl Congeners
Using U.S. Environmental Protection Agency Method 1668

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2066**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3764002**	**Date Collected:**	**07/04/2012 18:49**	**Matrix:**	**W**
Client Sample:	**1668 Water (PQL)**	**Date Received:**	**07/12/2012 10:55**		
Client ID:	**WT_IPCHA-12-13027**			**Prep Basis:**	**As Received**
Batch ID:	**21673**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/01/2012 21:03**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c01aug12a-6**			**Dilution:**	**1**
Prep Batch:	**21670**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**31-JUL-12**	**Aliquot:**	**900 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	22.2	22.2	pg/L	22.2
2051-61-8	PCB-2	U	22.2	22.2	pg/L	22.2
2051-62-9	PCB-3	U	22.2	22.2	pg/L	22.2
13029-08-8	PCB-4	U	111	111	pg/L	111
16605-91-7	PCB-5	U	22.2	22.2	pg/L	22.2
25569-80-6	PCB-6	U	22.2	22.2	pg/L	22.2
33284-50-3	PCB-7	U	22.2	22.2	pg/L	22.2
34883-43-7	PCB-8	U	22.2	22.2	pg/L	22.2
34883-39-1	PCB-9	U	22.2	22.2	pg/L	22.2
33146-45-1	PCB-10	U	111	111	pg/L	111
2050-67-1	PCB-11	U	111	111	pg/L	111
2974-92-7	PCB-13/12	CU	44.4	44.4	pg/L	44.4
34883-41-5	PCB-14	U	22.2	22.2	pg/L	22.2
2050-68-2	PCB-15	U	22.2	22.2	pg/L	22.2
38444-78-9	PCB-16	U	111	111	pg/L	111
37680-66-3	PCB-17	U	22.2	22.2	pg/L	22.2
37680-65-2	PCB-18/30	CU	44.4	44.4	pg/L	44.4
38444-73-4	PCB-19	U	22.2	22.2	pg/L	22.2
38444-84-7	PCB-20/28	CU	44.4	44.4	pg/L	44.4
55702-46-0	PCB-21/33	CU	44.4	44.4	pg/L	44.4
38444-85-8	PCB-22	U	22.2	22.2	pg/L	22.2
55720-44-0	PCB-23	U	22.2	22.2	pg/L	22.2
55702-45-9	PCB-24	U	22.2	22.2	pg/L	22.2
55712-37-3	PCB-25	U	22.2	22.2	pg/L	22.2
38444-81-4	PCB-26/29	CU	44.4	44.4	pg/L	44.4
38444-76-7	PCB-27	U	22.2	22.2	pg/L	22.2
16606-02-3	PCB-31	U	22.2	22.2	pg/L	22.2
38444-77-8	PCB-32	U	22.2	22.2	pg/L	22.2
37680-68-5	PCB-34	U	22.2	22.2	pg/L	22.2
37680-69-6	PCB-35	U	22.2	22.2	pg/L	22.2
38444-87-0	PCB-36	U	22.2	22.2	pg/L	22.2
38444-90-5	PCB-37	U	22.2	22.2	pg/L	22.2

Comments:
C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**
U **Analyte was analyzed for , but not detected above the specified detection limit.**

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Run Date:	**08/01/2012 21:03**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c01aug12a-6**			**Dilution:**	**1**
Prep Batch:	**21670**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**31-JUL-12**	**Aliquot:**	**900 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	22.2	22.2	pg/L	22.2
38444-88-1	PCB-39	U	22.2	22.2	pg/L	22.2
38444-93-8	PCB-40/71	CU	44.4	44.4	pg/L	44.4
52663-59-9	PCB-41	U	111	111	pg/L	111
36559-22-5	PCB-42	U	22.2	22.2	pg/L	22.2
70362-46-8	PCB-43	U	22.2	22.2	pg/L	22.2
41464-39-5	PCB-44/65/47	CU	66.7	66.7	pg/L	66.7
70362-45-7	PCB-45/51	CU	44.4	44.4	pg/L	44.4
41464-47-5	PCB-46	U	22.2	22.2	pg/L	22.2
70362-47-9	PCB-48	U	22.2	22.2	pg/L	22.2
41464-40-8	PCB-69/49	C	47.9	45.1	pg/L	44.4
62796-65-0	PCB-50/53	CU	44.4	44.4	pg/L	44.4
35693-99-3	PCB-52		261	257	pg/L	22.2
15968-05-5	PCB-54	U	22.2	22.2	pg/L	22.2
74338-24-2	PCB-55	U	22.2	22.2	pg/L	22.2
41464-43-1	PCB-56	U	22.2	22.2	pg/L	22.2
70424-67-8	PCB-57	U	22.2	22.2	pg/L	22.2
41464-49-7	PCB-58	U	22.2	22.2	pg/L	22.2
74472-33-6	PCB-59/62/75	CU	66.7	66.7	pg/L	66.7
33025-41-1	PCB-60	U	22.2	22.2	pg/L	22.2
33284-53-6	PCB-61/76/70/74	C	190	187	pg/L	88.9
74472-34-7	PCB-63	U	22.2	22.2	pg/L	22.2
52663-58-8	PCB-64	U	22.2	22.2	pg/L	22.2
32598-10-0	PCB-66		41.9	39.3	pg/L	22.2
73575-53-8	PCB-67	U	22.2	22.2	pg/L	22.2
73575-52-7	PCB-68	U	22.2	22.2	pg/L	22.2
41464-42-0	PCB-72	U	22.2	22.2	pg/L	22.2
74338-23-1	PCB-73	U	22.2	22.2	pg/L	22.2
32598-13-3	PCB-77		29.2	26.5	pg/L	22.2
70362-49-1	PCB-78	U	22.2	22.2	pg/L	22.2
41464-48-6	PCB-79	U	22.2	22.2	pg/L	22.2
33284-52-5	PCB-80	U	22.2	22.2	pg/L	22.2

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CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	22.2	22.2	pg/L	22.2
52663-62-4	PCB-82		83.5	80.4	pg/L	22.2
60145-20-2	PCB-83		48.6	45.4	pg/L	22.2
52663-60-2	PCB-84		163	159	pg/L	22.2
65510-45-4	PCB-117/116/85	C	161	159	pg/L	66.7
55312-69-1	PCB-86/87/97/109/119/125	C	650	648	pg/L	133
55215-17-3	PCB-88/91	C	90.9	88.1	pg/L	44.4
73575-57-2	PCB-89	U	22.2	22.2	pg/L	22.2
68194-07-0	PCB-113/90/101	C	1100	1100	pg/L	66.7
52663-61-3	PCB-92		201	199	pg/L	22.2
73575-56-1	PCB-93/100	CU	44.4	44.4	pg/L	44.4
73575-55-0	PCB-94	U	22.2	22.2	pg/L	22.2
38379-99-6	PCB-95		709	706	pg/L	22.2
73575-54-9	PCB-96	U	22.2	22.2	pg/L	22.2
60233-25-2	PCB-102/98	CU	44.4	44.4	pg/L	44.4
38380-01-7	PCB-99		366	363	pg/L	111
60145-21-3	PCB-103	U	22.2	22.2	pg/L	22.2
56558-16-8	PCB-104	U	22.2	22.2	pg/L	22.2
32598-14-4	PCB-105		384	381	pg/L	111
70424-69-0	PCB-106	U	22.2	22.2	pg/L	22.2
70424-68-9	PCB-107		59.3	54.9	pg/L	22.2
70362-41-3	PCB-108/124	CU	44.8	44.4	pg/L	44.4
38380-03-9	PCB-110/115	CU	44.4	44.4	pg/L	44.4
39635-32-0	PCB-111	U	22.2	22.2	pg/L	22.2
74472-36-9	PCB-112	U	22.2	22.2	pg/L	22.2
74472-37-0	PCB-114	U	22.2	22.2	pg/L	22.2
31508-00-6	PCB-118		920	917	pg/L	22.2
68194-12-7	PCB-120	U	22.2	22.2	pg/L	22.2
56558-18-0	PCB-121	U	22.2	22.2	pg/L	22.2
76842-07-4	PCB-122	U	22.2	22.2	pg/L	22.2
65510-44-3	PCB-123	U	111	111	pg/L	111
57465-28-8	PCB-126	U	22.2	22.2	pg/L	22.2

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Data File:	**c01aug12a-6**			**Dilution:**	**1**
Prep Batch:	**21670**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**31-JUL-12**	**Aliquot:**	**900 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	22.2	22.2	pg/L	22.2
38380-07-3	PCB-128/166	C	297	294	pg/L	44.4
55215-18-4	PCB-138/163/129	C	2140	2140	pg/L	66.7
52663-66-8	PCB-130		127	124	pg/L	22.2
61798-70-7	PCB-131	U	22.2	22.2	pg/L	22.2
38380-05-1	PCB-132		455	451	pg/L	22.2
35694-04-3	PCB-133	U	22.2	22.2	pg/L	22.2
52704-70-8	PCB-134	U	111	111	pg/L	111
52744-13-5	PCB-151/135	C	399	396	pg/L	44.4
38411-22-2	PCB-136		118	116	pg/L	22.2
35694-06-5	PCB-137		81.4	77.9	pg/L	22.2
56030-56-9	PCB-139/140	CU	44.4	44.4	pg/L	44.4
52712-04-6	PCB-141		304	300	pg/L	22.2
41411-61-4	PCB-142	U	22.2	22.2	pg/L	22.2
68194-15-0	PCB-143	U	22.2	22.2	pg/L	22.2
68194-14-9	PCB-144		51.4	49	pg/L	22.2
74472-40-5	PCB-145	U	22.2	22.2	pg/L	22.2
51908-16-8	PCB-146		254	250	pg/L	22.2
68194-13-8	PCB-147/149	C	1030	1010	pg/L	44.4
74472-41-6	PCB-148	U	22.2	22.2	pg/L	22.2
68194-08-1	PCB-150	U	22.2	22.2	pg/L	22.2
68194-09-2	PCB-152	U	22.2	22.2	pg/L	22.2
35065-27-1	PCB-153/168	C	1410	1400	pg/L	44.4
60145-22-4	PCB-154	U	22.2	22.2	pg/L	22.2
33979-03-2	PCB-155	U	22.2	22.2	pg/L	22.2
38380-08-4	PCB-156/157	C	235	232	pg/L	44.4
74472-42-7	PCB-158		190	187	pg/L	22.2
39635-35-3	PCB-159	U	22.2	22.2	pg/L	22.2
41411-62-5	PCB-160	U	22.2	22.2	pg/L	22.2
74472-43-8	PCB-161	U	22.2	22.2	pg/L	22.2
39635-34-2	PCB-162	U	22.2	22.2	pg/L	22.2
74472-45-0	PCB-164		146	143	pg/L	22.2

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Data File:	**c01aug12a-6**			**Dilution:**	**1**
Prep Batch:	**21670**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**31-JUL-12**	**Aliquot:**	**900 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	22.2	22.2	pg/L	22.2
52663-72-6	PCB-167		92.7	89.9	pg/L	22.2
32774-16-6	PCB-169	U	22.2	22.2	pg/L	22.2
35065-30-6	PCB-170		405	403	pg/L	22.2
52663-71-5	PCB-173/171	C	100	97.3	pg/L	44.4
52663-74-8	PCB-172		76.0	73.4	pg/L	22.2
38411-25-5	PCB-174		380	376	pg/L	22.2
40186-70-7	PCB-175	U	22.2	22.2	pg/L	22.2
52663-65-7	PCB-176		30.6	28.2	pg/L	22.2
52663-70-4	PCB-177		218	216	pg/L	22.2
52663-67-9	PCB-178		78.2	75	pg/L	22.2
52663-64-6	PCB-179		112	110	pg/L	22.2
35065-29-3	PCB-193/180	CU	44.4	44.4	pg/L	44.4
74472-47-2	PCB-181	U	22.2	22.2	pg/L	22.2
60145-23-5	PCB-182	U	22.2	22.2	pg/L	22.2
52663-69-1	PCB-183/185	C	198	195	pg/L	44.4
74472-48-3	PCB-184	U	22.2	22.2	pg/L	22.2
74472-49-4	PCB-186	U	22.2	22.2	pg/L	22.2
52663-68-0	PCB-187		430	427	pg/L	22.2
74487-85-7	PCB-188	U	22.2	22.2	pg/L	22.2
39635-31-9	PCB-189	U	22.2	22.2	pg/L	22.2
41411-64-7	PCB-190		86.4	84.5	pg/L	22.2
74472-50-7	PCB-191	U	22.2	22.2	pg/L	22.2
74472-51-8	PCB-192	U	22.2	22.2	pg/L	22.2
35694-08-7	PCB-194		191	189	pg/L	22.2
52663-78-2	PCB-195		70.2	68.3	pg/L	22.2
42740-50-1	PCB-196		78.7	76.9	pg/L	22.2
33091-17-7	PCB-197/200	CU	44.4	44.4	pg/L	44.4
68194-17-2	PCB-198/199	C	195	193	pg/L	44.4
40186-71-8	PCB-201	U	22.2	22.2	pg/L	22.2
2136-99-4	PCB-202		29.3	27.7	pg/L	22.2
52663-76-0	PCB-203		110	108	pg/L	22.2

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2066**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3764002**	**Date Collected:**	**07/04/2012 18:49**	**Matrix:**	**W**
Client Sample:	**1668 Water (PQL)**	**Date Received:**	**07/12/2012 10:55**		
Client ID:	**WT_IPCHA-12-13027**			**Prep Basis:**	**As Received**
Batch ID:	**21673**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/01/2012 21:03**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c01aug12a-6**			**Dilution:**	**1**
Prep Batch:	**21670**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**31-JUL-12**	**Aliquot:**	**900 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	22.2	22.2	pg/L	22.2
74472-53-0	PCB-205	U	22.2	22.2	pg/L	22.2
40186-72-9	PCB-206		53.8	51.6	pg/L	22.2
52663-79-3	PCB-207	U	22.2	22.2	pg/L	22.2
52663-77-1	PCB-208	U	22.2	22.2	pg/L	22.2
2051-24-3	PCB-209	U	22.2	22.2	pg/L	22.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		570	556	pg/L	
25429-29-2	Total Penta PCBs		4980	4900	pg/L	
26601-64-9	Total Hexa PCBs		7330	7250	pg/L	
28655-71-2	Total Hepta PCBs		2110	2080	pg/L	
55722-26-4	Total Octa PCBs		674	663	pg/L	
53742-07-7	Total Nona PCBs		53.8	51.6	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		15700	15500	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		981	2220	pg/L	44.1	(15%-150%)
13C-3-MoCB		934	2220	pg/L	42.0	(15%-150%)
13C-4-DiCB		1110	2220	pg/L	49.9	(25%-150%)
13C-15-DiCB		1670	2220	pg/L	75.1	(25%-150%)
13C-19-TrCB		1440	2220	pg/L	65.0	(25%-150%)
13C-37-TrCB		1750	2220	pg/L	78.8	(25%-150%)
13C-54-TeCB		1200	2220	pg/L	54.1	(25%-150%)
13C-77-TeCB		2260	2220	pg/L	102	(25%-150%)
13C-81-TeCB		2240	2220	pg/L	101	(25%-150%)
13C-104-PeCB		1320	2220	pg/L	59.5	(25%-150%)
13C-105-PeCB		1860	2220	pg/L	83.5	(25%-150%)
13C-114-PeCB		1750	2220	pg/L	78.8	(25%-150%)
13C-118-PeCB		1800	2220	pg/L	81.0	(25%-150%)
13C-123-PeCB		1900	2220	pg/L	85.3	(25%-150%)
13C-126-PeCB		2170	2220	pg/L	97.5	(25%-150%)
13C-155-HxCB		1200	2220	pg/L	53.8	(25%-150%)
13C-156-HxCB	C	3050	4440	pg/L	68.6	(25%-150%)
13C-167-HxCB		1640	2220	pg/L	73.7	(25%-150%)
13C-169-HxCB		2050	2220	pg/L	92.3	(25%-150%)
13C-188-HpCB		1200	2220	pg/L	54.1	(25%-150%)
13C-189-HpCB		1660	2220	pg/L	74.7	(25%-150%)
13C-202-OcCB		1380	2220	pg/L	62.0	(25%-150%)
13C-205-OcCB		1780	2220	pg/L	80.0	(25%-150%)

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2066**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3764002**	**Date Collected:**	**07/04/2012 18:49**	**Matrix:**	**W**
Client Sample:	**1668 Water (PQL)**	**Date Received:**	**07/12/2012 10:55**		
Client ID:	**WT_IPCHA-12-13027**			**Prep Basis:**	**As Received**
Batch ID:	**21673**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/01/2012 21:03**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c01aug12a-6**			**Dilution:**	**1**
Prep Batch:	**21670**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**31-JUL-12**	**Aliquot:**	**900 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-206-NoCB		1610	2220	pg/L	72.4	(25%-150%)
13C-208-NoCB		1480	2220	pg/L	66.8	(25%-150%)
13C-209-DeCB		1580	2220	pg/L	71.1	(25%-150%)
13C-28-TrCB		1530	2220	pg/L	68.7	(30%-135%)
13C-111-PeCB		1880	2220	pg/L	84.7	(30%-135%)
13C-178-HpCB		1710	2220	pg/L	77.0	(30%-135%)

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.2	21.2	pg/L	21.2
2051-61-8	PCB-2	U	21.2	21.2	pg/L	21.2
2051-62-9	PCB-3	U	21.2	21.2	pg/L	21.2
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.2	21.2	pg/L	21.2
25569-80-6	PCB-6	U	21.2	21.2	pg/L	21.2
33284-50-3	PCB-7	U	21.2	21.2	pg/L	21.2
34883-43-7	PCB-8	U	21.2	21.2	pg/L	21.2
34883-39-1	PCB-9	U	21.2	21.2	pg/L	21.2
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11		121	117	pg/L	106
PCB-12/13	PCB-13/12	CU	42.3	42.3	pg/L	42.3
34883-41-5	PCB-14	U	21.2	21.2	pg/L	21.2
2050-68-2	PCB-15		36.2	32.5	pg/L	21.2
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17	U	21.2	21.2	pg/L	21.2
PCB-18/30	PCB-18/30	CU	42.3	42.3	pg/L	42.3
38444-73-4	PCB-19	U	21.2	21.2	pg/L	21.2
PCB-20/28	PCB-20/28	C	64.4	63.5	pg/L	42.3
PCB-21/33	PCB-21/33	CU	42.3	42.3	pg/L	42.3
38444-85-8	PCB-22		23.5	22.7	pg/L	21.2
55720-44-0	PCB-23	U	21.2	21.2	pg/L	21.2
55702-45-9	PCB-24	U	21.2	21.2	pg/L	21.2
55712-37-3	PCB-25	U	21.2	21.2	pg/L	21.2
PCB-26/29	PCB-26/29	CU	42.3	42.3	pg/L	42.3
38444-76-7	PCB-27	U	21.2	21.2	pg/L	21.2
16606-02-3	PCB-31		47.0	45.9	pg/L	21.2
38444-77-8	PCB-32	U	21.2	21.2	pg/L	21.2
37680-68-5	PCB-34	U	21.2	21.2	pg/L	21.2
37680-69-6	PCB-35	U	21.2	21.2	pg/L	21.2
38444-87-0	PCB-36	U	21.2	21.2	pg/L	21.2
38444-90-5	PCB-37		36.8	35.3	pg/L	21.2

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.2	21.2	pg/L	21.2
38444-88-1	PCB-39	U	21.2	21.2	pg/L	21.2
PCB-40/71	PCB-40/71	CU	42.3	42.3	pg/L	42.3
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42	U	21.2	21.2	pg/L	21.2
70362-46-8	PCB-43	U	21.2	21.2	pg/L	21.2
PCB-44/47/65	PCB-44/65/47	C	81.2	79.7	pg/L	63.5
PCB-45/51	PCB-45/51	CU	42.3	42.3	pg/L	42.3
41464-47-5	PCB-46	U	21.2	21.2	pg/L	21.2
70362-47-9	PCB-48	U	21.2	21.2	pg/L	21.2
PCB-49/69	PCB-69/49	CU	42.3	42.3	pg/L	42.3
PCB-50/53	PCB-50/53	CU	42.3	42.3	pg/L	42.3
35693-99-3	PCB-52		117	115	pg/L	21.2
15968-05-5	PCB-54	U	21.2	21.2	pg/L	21.2
74338-24-2	PCB-55	U	21.2	21.2	pg/L	21.2
41464-43-1	PCB-56		33.7	32.3	pg/L	21.2
70424-67-8	PCB-57	U	21.2	21.2	pg/L	21.2
41464-49-7	PCB-58	U	21.2	21.2	pg/L	21.2
PCB-59/62/75	PCB-59/62/75	CU	63.5	63.5	pg/L	63.5
33025-41-1	PCB-60	U	21.2	21.2	pg/L	21.2
PCB-61-76	PCB-61/76/70/74	C	133	131	pg/L	84.6
74472-34-7	PCB-63	U	21.2	21.2	pg/L	21.2
52663-58-8	PCB-64		31.8	30.7	pg/L	21.2
32598-10-0	PCB-66		66.3	65.1	pg/L	21.2
73575-53-8	PCB-67	U	21.2	21.2	pg/L	21.2
73575-52-7	PCB-68	U	21.2	21.2	pg/L	21.2
41464-42-0	PCB-72	U	21.2	21.2	pg/L	21.2
74338-23-1	PCB-73	U	21.2	21.2	pg/L	21.2
32598-13-3	PCB-77		23.5	22.1	pg/L	21.2
70362-49-1	PCB-78	U	21.2	21.2	pg/L	21.2
41464-48-6	PCB-79	U	21.2	21.2	pg/L	21.2
33284-52-5	PCB-80	U	21.2	21.2	pg/L	21.2

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**
U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.2	21.2	pg/L	21.2
52663-62-4	PCB-82		42.1	40.6	pg/L	21.2
60145-20-2	PCB-83	U	21.2	21.2	pg/L	21.2
52663-60-2	PCB-84		87.6	85.8	pg/L	21.2
PCB-85-117	PCB-117/116/85	CU	63.5	63.5	pg/L	63.5
PCB-86-125	PCB-86/87/97/109/119/125	C	205	203	pg/L	127
PCB-88/91	PCB-88/91	C	58.1	56.5	pg/L	42.3
73575-57-2	PCB-89	U	21.2	21.2	pg/L	21.2
PCB-90-113	PCB-113/90/101	C	378	376	pg/L	63.5
52663-61-3	PCB-92		82.8	81.4	pg/L	21.2
PCB-93/100	PCB-93/100	CU	42.3	42.3	pg/L	42.3
73575-55-0	PCB-94	U	21.2	21.2	pg/L	21.2
38379-99-6	PCB-95		372	370	pg/L	21.2
73575-54-9	PCB-96	U	21.2	21.2	pg/L	21.2
PCB-98/102	PCB-102/98	CU	42.3	42.3	pg/L	42.3
38380-01-7	PCB-99		133	132	pg/L	106
60145-21-3	PCB-103	U	21.2	21.2	pg/L	21.2
56558-16-8	PCB-104	U	21.2	21.2	pg/L	21.2
32598-14-4	PCB-105		120	119	pg/L	106
70424-69-0	PCB-106	U	21.2	21.2	pg/L	21.2
70424-68-9	PCB-107	U	21.2	21.2	pg/L	21.2
PCB-108/124	PCB-108/124	CU	42.3	42.3	pg/L	42.3
PCB-110/115	PCB-110/115	CU	42.3	42.3	pg/L	42.3
39635-32-0	PCB-111	U	21.2	21.2	pg/L	21.2
74472-36-9	PCB-112	U	21.2	21.2	pg/L	21.2
74472-37-0	PCB-114	U	21.2	21.2	pg/L	21.2
31508-00-6	PCB-118		294	293	pg/L	21.2
68194-12-7	PCB-120	U	21.2	21.2	pg/L	21.2
56558-18-0	PCB-121	U	21.2	21.2	pg/L	21.2
76842-07-4	PCB-122	U	21.2	21.2	pg/L	21.2
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126	U	21.2	21.2	pg/L	21.2

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.2	21.2	pg/L	21.2
PCB-128/166	PCB-128/166	C	169	167	pg/L	42.3
PCB-129-163	PCB-138/163/129	C	1630	1630	pg/L	63.5
52663-66-8	PCB-130		87.1	85.4	pg/L	21.2
61798-70-7	PCB-131	U	21.2	21.2	pg/L	21.2
38380-05-1	PCB-132		420	418	pg/L	21.2
35694-04-3	PCB-133	U	21.2	21.2	pg/L	21.2
52704-70-8	PCB-134	U	106	106	pg/L	106
PCB-135/151	PCB-151/135	C	748	746	pg/L	42.3
38411-22-2	PCB-136		177	176	pg/L	21.2
35694-06-5	PCB-137		36.9	35.3	pg/L	21.2
PCB-139/140	PCB-139/140	CU	42.3	42.3	pg/L	42.3
52712-04-6	PCB-141		375	373	pg/L	21.2
41411-61-4	PCB-142	U	21.2	21.2	pg/L	21.2
68194-15-0	PCB-143	U	21.2	21.2	pg/L	21.2
68194-14-9	PCB-144		86.6	85.5	pg/L	21.2
74472-40-5	PCB-145	U	21.2	21.2	pg/L	21.2
51908-16-8	PCB-146		263	262	pg/L	21.2
PCB-147/149	PCB-147/149	C	1520	1520	pg/L	42.3
74472-41-6	PCB-148	U	21.2	21.2	pg/L	21.2
68194-08-1	PCB-150	U	21.2	21.2	pg/L	21.2
68194-09-2	PCB-152	U	21.2	21.2	pg/L	21.2
PCB-153/168	PCB-153/168	C	1650	1650	pg/L	42.3
60145-22-4	PCB-154		22.4	21.2	pg/L	21.2
33979-03-2	PCB-155	U	21.2	21.2	pg/L	21.2
PCB-156/157	PCB-156/157	C	114	112	pg/L	42.3
74472-42-7	PCB-158		129	127	pg/L	21.2
39635-35-3	PCB-159	U	21.2	21.2	pg/L	21.2
41411-62-5	PCB-160	U	21.2	21.2	pg/L	21.2
74472-43-8	PCB-161	U	21.2	21.2	pg/L	21.2
39635-34-2	PCB-162	U	21.2	21.2	pg/L	21.2
74472-45-0	PCB-164		119	118	pg/L	21.2

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.2	21.2	pg/L	21.2
52663-72-6	PCB-167		73.0	71.8	pg/L	21.2
32774-16-6	PCB-169	U	21.2	21.2	pg/L	21.2
35065-30-6	PCB-170		853	852	pg/L	21.2
PCB-171/173	PCB-173/171	C	247	245	pg/L	42.3
52663-74-8	PCB-172		224	223	pg/L	21.2
38411-25-5	PCB-174		1390	1390	pg/L	21.2
40186-70-7	PCB-175		61.0	59.9	pg/L	21.2
52663-65-7	PCB-176		139	138	pg/L	21.2
52663-70-4	PCB-177		670	669	pg/L	21.2
52663-67-9	PCB-178		339	338	pg/L	21.2
52663-64-6	PCB-179		619	618	pg/L	21.2
PCB-180/193	PCB-193/180	CU	42.3	42.3	pg/L	42.3
74472-47-2	PCB-181	U	21.2	21.2	pg/L	21.2
60145-23-5	PCB-182	U	21.2	21.2	pg/L	21.2
PCB-183/185	PCB-183/185	C	959	957	pg/L	42.3
74472-48-3	PCB-184	U	21.2	21.2	pg/L	21.2
74472-49-4	PCB-186	U	21.2	21.2	pg/L	21.2
52663-68-0	PCB-187		2210	2210	pg/L	21.2
74487-85-7	PCB-188	U	21.2	21.2	pg/L	21.2
39635-31-9	PCB-189		34.1	33	pg/L	21.2
41411-64-7	PCB-190		210	209	pg/L	21.2
74472-50-7	PCB-191		32.5	31.6	pg/L	21.2
74472-51-8	PCB-192	U	21.2	21.2	pg/L	21.2
35694-08-7	PCB-194		1320	1320	pg/L	21.2
52663-78-2	PCB-195		364	363	pg/L	21.2
42740-50-1	PCB-196		727	726	pg/L	21.2
PCB-197/200	PCB-197/200	CU	42.3	42.3	pg/L	42.3
PCB-198/199	PCB-198/199	C	1830	1830	pg/L	42.3
40186-71-8	PCB-201		192	192	pg/L	21.2
2136-99-4	PCB-202		328	327	pg/L	21.2
52663-76-0	PCB-203		938	937	pg/L	21.2

Comments:
C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**
U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.2	21.2	pg/L	21.2
74472-53-0	PCB-205		55.8	54.8	pg/L	21.2
40186-72-9	PCB-206		710	708	pg/L	21.2
52663-79-3	PCB-207		81.3	80.5	pg/L	21.2
52663-77-1	PCB-208		149	148	pg/L	21.2
2051-24-3	PCB-209		60.6	59.5	pg/L	21.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		157	149	pg/L	
25323-68-6	Total Tri PCBs		172	167	pg/L	
26914-33-0	Total Tetra PCBs		486	476	pg/L	
25429-29-2	Total Penta PCBs		1770	1760	pg/L	
26601-64-9	Total Hexa PCBs		7610	7590	pg/L	
28655-71-2	Total Hepta PCBs		7990	7970	pg/L	
55722-26-4	Total Octa PCBs		5760	5750	pg/L	
53742-07-7	Total Nona PCBs		940	937	pg/L	
DECACB(Tot)	Total Deca PCB		60.6	59.5	pg/L	
1336-36-3	Total PCB Congeners		24900	24900	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		859	2120	pg/L	40.6	(15%-150%)
13C-3-MoCB		1050	2120	pg/L	49.4	(15%-150%)
13C-4-DiCB		1120	2120	pg/L	53.0	(25%-150%)
13C-15-DiCB		1600	2120	pg/L	75.6	(25%-150%)
13C-19-TrCB		1430	2120	pg/L	67.5	(25%-150%)
13C-37-TrCB		1630	2120	pg/L	77.2	(25%-150%)
13C-54-TeCB		1150	2120	pg/L	54.3	(25%-150%)
13C-77-TeCB		2390	2120	pg/L	113	(25%-150%)
13C-81-TeCB		2330	2120	pg/L	110	(25%-150%)
13C-104-PeCB		1290	2120	pg/L	60.8	(25%-150%)
13C-105-PeCB		2110	2120	pg/L	99.7	(25%-150%)
13C-114-PeCB		1890	2120	pg/L	89.4	(25%-150%)
13C-118-PeCB		1890	2120	pg/L	89.2	(25%-150%)
13C-123-PeCB		1950	2120	pg/L	92.4	(25%-150%)
13C-126-PeCB		2430	2120	pg/L	115	(25%-150%)
13C-155-HxCB		1320	2120	pg/L	62.2	(25%-150%)
13C-156-HxCB	C	3680	4230	pg/L	87.1	(25%-150%)
13C-167-HxCB		1790	2120	pg/L	84.7	(25%-150%)
13C-169-HxCB		2200	2120	pg/L	104	(25%-150%)
13C-188-HpCB		1250	2120	pg/L	59.0	(25%-150%)
13C-189-HpCB		1700	2120	pg/L	80.4	(25%-150%)
13C-202-OcCB		1460	2120	pg/L	69.1	(25%-150%)
13C-205-OcCB		1840	2120	pg/L	86.9	(25%-150%)

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2012-2149**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**3863001**	**Date Collected:**	**08/03/2012 13:55**	**Matrix:**	**WATER**
Client Sample:	**1668A Water**	**Date Received:**	**08/08/2012 09:40**		
Client ID:	**WT_IPLAP-12-13100**			**Prep Basis:**	**As Received**
Batch ID:	**21740**	**Method:**	**EPA Method 1668A**		
Run Date:	**08/14/2012 23:27**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c14aug12b-8**			**Dilution:**	**1**
Prep Batch:	**21737**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**09-AUG-12**	**Aliquot:**	**945.2 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-206-NoCB		1600	2120	pg/L	75.8	(25%-150%)
13C-208-NoCB		1530	2120	pg/L	72.4	(25%-150%)
13C-209-DeCB		1510	2120	pg/L	71.3	(25%-150%)
13C-28-TrCB		1490	2120	pg/L	70.5	(30%-135%)
13C-111-PeCB		2040	2120	pg/L	96.5	(30%-135%)
13C-178-HpCB		1960	2120	pg/L	92.5	(30%-135%)

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	24.3	24.3	pg/L	24.3
2051-61-8	PCB-2	U	24.3	24.3	pg/L	24.3
2051-62-9	PCB-3	U	24.3	24.3	pg/L	24.3
13029-08-8	PCB-4	U	122	122	pg/L	122
16605-91-7	PCB-5	U	24.3	24.3	pg/L	24.3
25569-80-6	PCB-6	U	24.3	24.3	pg/L	24.3
33284-50-3	PCB-7	U	24.3	24.3	pg/L	24.3
34883-43-7	PCB-8	U	24.3	24.3	pg/L	24.3
34883-39-1	PCB-9	U	24.3	24.3	pg/L	24.3
33146-45-1	PCB-10	U	122	122	pg/L	122
2050-67-1	PCB-11		744	736	pg/L	122
PCB-12/13	PCB-13/12	CU	48.7	48.7	pg/L	48.7
34883-41-5	PCB-14	U	24.3	24.3	pg/L	24.3
2050-68-2	PCB-15	U	24.3	24.3	pg/L	24.3
38444-78-9	PCB-16	U	122	122	pg/L	122
37680-66-3	PCB-17	U	24.3	24.3	pg/L	24.3
PCB-18/30	PCB-18/30	CU	48.7	48.7	pg/L	48.7
38444-73-4	PCB-19	U	24.3	24.3	pg/L	24.3
PCB-20/28	PCB-20/28	CU	48.7	48.7	pg/L	48.7
PCB-21/33	PCB-21/33	CU	48.7	48.7	pg/L	48.7
38444-85-8	PCB-22	U	24.3	24.3	pg/L	24.3
55720-44-0	PCB-23	U	24.3	24.3	pg/L	24.3
55702-45-9	PCB-24	U	24.3	24.3	pg/L	24.3
55712-37-3	PCB-25	U	24.3	24.3	pg/L	24.3
PCB-26/29	PCB-26/29	CU	48.7	48.7	pg/L	48.7
38444-76-7	PCB-27	U	24.3	24.3	pg/L	24.3
16606-02-3	PCB-31		27.9	26.4	pg/L	24.3
38444-77-8	PCB-32	U	24.3	24.3	pg/L	24.3
37680-68-5	PCB-34	U	24.3	24.3	pg/L	24.3
37680-69-6	PCB-35	U	24.3	24.3	pg/L	24.3
38444-87-0	PCB-36	U	24.3	24.3	pg/L	24.3
38444-90-5	PCB-37	U	24.3	24.3	pg/L	24.3

Comments:
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	24.3	24.3	pg/L	24.3
38444-88-1	PCB-39	U	24.3	24.3	pg/L	24.3
PCB-40/71	PCB-40/71	CU	48.7	48.7	pg/L	48.7
52663-59-9	PCB-41	U	122	122	pg/L	122
36559-22-5	PCB-42	U	24.3	24.3	pg/L	24.3
70362-46-8	PCB-43	U	24.3	24.3	pg/L	24.3
PCB-44/47/65	PCB-44/65/47	CU	73	73	pg/L	73.0
PCB-45/51	PCB-45/51	CU	48.7	48.7	pg/L	48.7
41464-47-5	PCB-46	U	24.3	24.3	pg/L	24.3
70362-47-9	PCB-48	U	24.3	24.3	pg/L	24.3
PCB-49/69	PCB-69/49	CU	48.7	48.7	pg/L	48.7
PCB-50/53	PCB-50/53	CU	48.7	48.7	pg/L	48.7
35693-99-3	PCB-52		102	99.2	pg/L	24.3
15968-05-5	PCB-54	U	24.3	24.3	pg/L	24.3
74338-24-2	PCB-55	U	24.3	24.3	pg/L	24.3
41464-43-1	PCB-56	U	24.3	24.3	pg/L	24.3
70424-67-8	PCB-57	U	24.3	24.3	pg/L	24.3
41464-49-7	PCB-58	U	24.3	24.3	pg/L	24.3
PCB-59/62/75	PCB-59/62/75	CU	73	73	pg/L	73.0
33025-41-1	PCB-60	U	24.3	24.3	pg/L	24.3
PCB-61-76	PCB-61/76/70/74	C	104	102	pg/L	97.4
74472-34-7	PCB-63	U	24.3	24.3	pg/L	24.3
52663-58-8	PCB-64	U	24.3	24.3	pg/L	24.3
32598-10-0	PCB-66		37.9	35.6	pg/L	24.3
73575-53-8	PCB-67	U	24.3	24.3	pg/L	24.3
73575-52-7	PCB-68	U	24.3	24.3	pg/L	24.3
41464-42-0	PCB-72	U	24.3	24.3	pg/L	24.3
74338-23-1	PCB-73	U	24.3	24.3	pg/L	24.3
32598-13-3	PCB-77	U	25.2	24.3	pg/L	24.3
70362-49-1	PCB-78	U	24.3	24.3	pg/L	24.3
41464-48-6	PCB-79	U	24.3	24.3	pg/L	24.3
33284-52-5	PCB-80	U	24.3	24.3	pg/L	24.3

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	24.3	24.3	pg/L	24.3
52663-62-4	PCB-82		41.1	38.1	pg/L	24.3
60145-20-2	PCB-83	U	24.3	24.3	pg/L	24.3
52663-60-2	PCB-84	U	24.3	24.3	pg/L	24.3
PCB-85-117	PCB-117/116/85	CU	73	73	pg/L	73.0
PCB-86-125	PCB-86/87/97/109/119/125	C	238	236	pg/L	146
PCB-88/91	PCB-88/91	CU	48.7	48.7	pg/L	48.7
73575-57-2	PCB-89	U	24.3	24.3	pg/L	24.3
PCB-90-113	PCB-113/90/101	C	411	409	pg/L	73.0
52663-61-3	PCB-92		76.7	73.9	pg/L	24.3
PCB-93/100	PCB-93/100	CU	48.7	48.7	pg/L	48.7
73575-55-0	PCB-94	U	24.3	24.3	pg/L	24.3
38379-99-6	PCB-95		320	317	pg/L	24.3
73575-54-9	PCB-96	U	24.3	24.3	pg/L	24.3
PCB-98/102	PCB-102/98	CU	48.7	48.7	pg/L	48.7
38380-01-7	PCB-99		127	124	pg/L	122
60145-21-3	PCB-103	U	24.3	24.3	pg/L	24.3
56558-16-8	PCB-104	U	24.3	24.3	pg/L	24.3
32598-14-4	PCB-105		148	145	pg/L	122
70424-69-0	PCB-106	U	24.3	24.3	pg/L	24.3
70424-68-9	PCB-107		31.4	28.7	pg/L	24.3
PCB-108/124	PCB-108/124	CU	48.7	48.7	pg/L	48.7
PCB-110/115	PCB-110/115	CU	48.7	48.7	pg/L	48.7
39635-32-0	PCB-111	U	24.3	24.3	pg/L	24.3
74472-36-9	PCB-112	U	24.3	24.3	pg/L	24.3
74472-37-0	PCB-114	U	24.3	24.3	pg/L	24.3
31508-00-6	PCB-118		341	336	pg/L	24.3
68194-12-7	PCB-120	U	24.3	24.3	pg/L	24.3
56558-18-0	PCB-121	U	24.3	24.3	pg/L	24.3
76842-07-4	PCB-122	U	24.3	24.3	pg/L	24.3
65510-44-3	PCB-123	U	122	122	pg/L	122
57465-28-8	PCB-126	U	24.3	24.3	pg/L	24.3

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	24.3	24.3	pg/L	24.3
PCB-128/166	PCB-128/166	C	266	264	pg/L	48.7
PCB-129-163	PCB-138/163/129	C	3810	3810	pg/L	73.0
52663-66-8	PCB-130		190	187	pg/L	24.3
61798-70-7	PCB-131	U	24.3	24.3	pg/L	24.3
38380-05-1	PCB-132		729	726	pg/L	24.3
35694-04-3	PCB-133		71.6	68.7	pg/L	24.3
52704-70-8	PCB-134	U	122	122	pg/L	122
PCB-135/151	PCB-151/135	C	1230	1230	pg/L	48.7
38411-22-2	PCB-136		282	281	pg/L	24.3
35694-06-5	PCB-137	U	26.3	24.3	pg/L	24.3
PCB-139/140	PCB-139/140	CU	48.7	48.7	pg/L	48.7
52712-04-6	PCB-141		477	474	pg/L	24.3
41411-61-4	PCB-142	U	24.3	24.3	pg/L	24.3
68194-15-0	PCB-143	U	24.3	24.3	pg/L	24.3
68194-14-9	PCB-144		78.7	77	pg/L	24.3
74472-40-5	PCB-145	U	24.3	24.3	pg/L	24.3
51908-16-8	PCB-146		667	664	pg/L	24.3
PCB-147/149	PCB-147/149	C	3050	3050	pg/L	48.7
74472-41-6	PCB-148	U	24.3	24.3	pg/L	24.3
68194-08-1	PCB-150	U	24.3	24.3	pg/L	24.3
68194-09-2	PCB-152	U	24.3	24.3	pg/L	24.3
PCB-153/168	PCB-153/168	C	3110	3100	pg/L	48.7
60145-22-4	PCB-154		29.5	27.9	pg/L	24.3
33979-03-2	PCB-155	U	24.3	24.3	pg/L	24.3
PCB-156/157	PCB-156/157	C	198	196	pg/L	48.7
74472-42-7	PCB-158		247	245	pg/L	24.3
39635-35-3	PCB-159	U	24.3	24.3	pg/L	24.3
41411-62-5	PCB-160	U	24.3	24.3	pg/L	24.3
74472-43-8	PCB-161	U	24.3	24.3	pg/L	24.3
39635-34-2	PCB-162	U	24.3	24.3	pg/L	24.3
74472-45-0	PCB-164		315	313	pg/L	24.3

Comments:

C **Congener has coeluters. When Cxxx, refer to congener number xxx for data**
Q **Quantitative Interference**
U **Analyte was analyzed for , but not detected above the specified detection limit.**

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	24.3	24.3	pg/L	24.3
2051-61-8	PCB-2	U	24.3	24.3	pg/L	24.3
2051-62-9	PCB-3	U	24.3	24.3	pg/L	24.3
13029-08-8	PCB-4	U	122	122	pg/L	122
16605-91-7	PCB-5	U	24.3	24.3	pg/L	24.3
25569-80-6	PCB-6	U	24.3	24.3	pg/L	24.3
33284-50-3	PCB-7	U	24.3	24.3	pg/L	24.3
34883-43-7	PCB-8	U	24.3	24.3	pg/L	24.3
34883-39-1	PCB-9	U	24.3	24.3	pg/L	24.3
33146-45-1	PCB-10	U	122	122	pg/L	122
2050-67-1	PCB-11		744	736	pg/L	122
PCB-12/13	PCB-13/12	CU	48.7	48.7	pg/L	48.7
34883-41-5	PCB-14	U	24.3	24.3	pg/L	24.3
2050-68-2	PCB-15	U	24.3	24.3	pg/L	24.3
38444-78-9	PCB-16	U	122	122	pg/L	122
37680-66-3	PCB-17	U	24.3	24.3	pg/L	24.3
PCB-18/30	PCB-18/30	CU	48.7	48.7	pg/L	48.7
38444-73-4	PCB-19	U	24.3	24.3	pg/L	24.3
PCB-20/28	PCB-20/28	CU	48.7	48.7	pg/L	48.7
PCB-21/33	PCB-21/33	CU	48.7	48.7	pg/L	48.7
38444-85-8	PCB-22	U	24.3	24.3	pg/L	24.3
55720-44-0	PCB-23	U	24.3	24.3	pg/L	24.3
55702-45-9	PCB-24	U	24.3	24.3	pg/L	24.3
55712-37-3	PCB-25	U	24.3	24.3	pg/L	24.3
PCB-26/29	PCB-26/29	CU	48.7	48.7	pg/L	48.7
38444-76-7	PCB-27	U	24.3	24.3	pg/L	24.3
16606-02-3	PCB-31		27.9	26.4	pg/L	24.3
38444-77-8	PCB-32	U	24.3	24.3	pg/L	24.3
37680-68-5	PCB-34	U	24.3	24.3	pg/L	24.3
37680-69-6	PCB-35	U	24.3	24.3	pg/L	24.3
38444-87-0	PCB-36	U	24.3	24.3	pg/L	24.3
38444-90-5	PCB-37	U	24.3	24.3	pg/L	24.3

Comments:
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	24.3	24.3	pg/L	24.3
38444-88-1	PCB-39	U	24.3	24.3	pg/L	24.3
PCB-40/71	PCB-40/71	CU	48.7	48.7	pg/L	48.7
52663-59-9	PCB-41	U	122	122	pg/L	122
36559-22-5	PCB-42	U	24.3	24.3	pg/L	24.3
70362-46-8	PCB-43	U	24.3	24.3	pg/L	24.3
PCB-44/47/65	PCB-44/65/47	CU	73	73	pg/L	73.0
PCB-45/51	PCB-45/51	CU	48.7	48.7	pg/L	48.7
41464-47-5	PCB-46	U	24.3	24.3	pg/L	24.3
70362-47-9	PCB-48	U	24.3	24.3	pg/L	24.3
PCB-49/69	PCB-69/49	CU	48.7	48.7	pg/L	48.7
PCB-50/53	PCB-50/53	CU	48.7	48.7	pg/L	48.7
35693-99-3	PCB-52		102	99.2	pg/L	24.3
15968-05-5	PCB-54	U	24.3	24.3	pg/L	24.3
74338-24-2	PCB-55	U	24.3	24.3	pg/L	24.3
41464-43-1	PCB-56	U	24.3	24.3	pg/L	24.3
70424-67-8	PCB-57	U	24.3	24.3	pg/L	24.3
41464-49-7	PCB-58	U	24.3	24.3	pg/L	24.3
PCB-59/62/75	PCB-59/62/75	CU	73	73	pg/L	73.0
33025-41-1	PCB-60	U	24.3	24.3	pg/L	24.3
PCB-61-76	PCB-61/76/70/74	C	104	102	pg/L	97.4
74472-34-7	PCB-63	U	24.3	24.3	pg/L	24.3
52663-58-8	PCB-64	U	24.3	24.3	pg/L	24.3
32598-10-0	PCB-66		37.9	35.6	pg/L	24.3
73575-53-8	PCB-67	U	24.3	24.3	pg/L	24.3
73575-52-7	PCB-68	U	24.3	24.3	pg/L	24.3
41464-42-0	PCB-72	U	24.3	24.3	pg/L	24.3
74338-23-1	PCB-73	U	24.3	24.3	pg/L	24.3
32598-13-3	PCB-77	U	25.2	24.3	pg/L	24.3
70362-49-1	PCB-78	U	24.3	24.3	pg/L	24.3
41464-48-6	PCB-79	U	24.3	24.3	pg/L	24.3
33284-52-5	PCB-80	U	24.3	24.3	pg/L	24.3

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data

Q Quantitative Interference

U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number:	**2013-163**	**Client:**	**LANL001**	**Project:**	**LANL00112**
Lab Sample ID:	**4109001**	**Date Collected:**	**10/12/2012 13:37**	**Matrix:**	**WATER**
Client Sample:	**1668 Water**	**Date Received:**	**10/19/2012 09:45**		
Client ID:	**WT_IPMOR-12-13210**			**Prep Basis:**	**As Received**
Batch ID:	**22189**	**Method:**	**EPA Method 1668A**		
Run Date:	**11/08/2012 19:02**	**Analyst:**	**CLP**	**Instrument:**	**HRP791**
Data File:	**c08nov12a-7**			**Dilution:**	**1**
Prep Batch:	**22185**	**Prep Method:**	**SW846 3520C**	**Prep SOP Ref:**	**CF-OA-E-001**
Prep Date:	**24-OCT-12**	**Aliquot:**	**821.7 mL**		

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	24.3	24.3	pg/L	24.3
52663-62-4	PCB-82		41.1	38.1	pg/L	24.3
60145-20-2	PCB-83	U	24.3	24.3	pg/L	24.3
52663-60-2	PCB-84	U	24.3	24.3	pg/L	24.3
PCB-85-117	PCB-117/116/85	CU	73	73	pg/L	73.0
PCB-86-125	PCB-86/87/97/109/119/125	C	238	236	pg/L	146
PCB-88/91	PCB-88/91	CU	48.7	48.7	pg/L	48.7
73575-57-2	PCB-89	U	24.3	24.3	pg/L	24.3
PCB-90-113	PCB-113/90/101	C	411	409	pg/L	73.0
52663-61-3	PCB-92		76.7	73.9	pg/L	24.3
PCB-93/100	PCB-93/100	CU	48.7	48.7	pg/L	48.7
73575-55-0	PCB-94	U	24.3	24.3	pg/L	24.3
38379-99-6	PCB-95		320	317	pg/L	24.3
73575-54-9	PCB-96	U	24.3	24.3	pg/L	24.3
PCB-98/102	PCB-102/98	CU	48.7	48.7	pg/L	48.7
38380-01-7	PCB-99		127	124	pg/L	122
60145-21-3	PCB-103	U	24.3	24.3	pg/L	24.3
56558-16-8	PCB-104	U	24.3	24.3	pg/L	24.3
32598-14-4	PCB-105		148	145	pg/L	122
70424-69-0	PCB-106	U	24.3	24.3	pg/L	24.3
70424-68-9	PCB-107		31.4	28.7	pg/L	24.3
PCB-108/124	PCB-108/124	CU	48.7	48.7	pg/L	48.7
PCB-110/115	PCB-110/115	CU	48.7	48.7	pg/L	48.7
39635-32-0	PCB-111	U	24.3	24.3	pg/L	24.3
74472-36-9	PCB-112	U	24.3	24.3	pg/L	24.3
74472-37-0	PCB-114	U	24.3	24.3	pg/L	24.3
31508-00-6	PCB-118		341	336	pg/L	24.3
68194-12-7	PCB-120	U	24.3	24.3	pg/L	24.3
56558-18-0	PCB-121	U	24.3	24.3	pg/L	24.3
76842-07-4	PCB-122	U	24.3	24.3	pg/L	24.3
65510-44-3	PCB-123	U	122	122	pg/L	122
57465-28-8	PCB-126	U	24.3	24.3	pg/L	24.3

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-JUL-12 to 31-JUL-12

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	2.7	2.75	8.2	
3-Chlorobiphenyl (2)	pg/L	3.08	3.42	9.92	
4-Chlorobiphenyl (3)	pg/L	2.37	2.1	6.57	
2,2'-Dichlorobiphenyl (4)	pg/L	10.3	11.4	33.1	
2,3-Dichlorobiphenyl (5)	pg/L	4.68	5.07	14.8	
2,3'-Dichlorobiphenyl (6)	pg/L	3.19	2.99	9.17	
2,4-Dichlorobiphenyl (7)	pg/L	3.45	3.14	9.73	
2,4'-Dichlorobiphenyl (8)	pg/L	2.79	2.35	7.49	
2,5-Dichlorobiphenyl (9)	pg/L	3.95	4.08	12.1	
2,6-Dichlorobiphenyl (10)	pg/L	3.4	3.26	9.92	
3,3'-Dichlorobiphenyl (11)	pg/L	3.85	3.46	10.8	
3,4-Dichlorobiphenyl (12)	pg/L	4.6	3.5	11.6	
3,5-Dichlorobiphenyl (14)	pg/L	3.57	3.23	10	
4,4'-Dichlorobiphenyl (15)	pg/L	3.32	2.39	8.09	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.44	1.12	3.68	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.89	1.64	5.17	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.23	0.922	3.07	
2,2',6-Trichlorobiphenyl (19)	pg/L	2.06	2.01	6.08	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.12	0.877	2.87	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.971	0.66	2.29	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1	0.767	2.53	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.963	0.752	2.47	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.09	0.955	3	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.807	0.621	2.05	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.16	0.811	2.78	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.02	0.875	2.77	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.959	0.669	2.3	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.934	0.783	2.5	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.03	0.861	2.76	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.24	0.845	2.93	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.16	0.791	2.74	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.51	0.855	3.22	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.19	0.796	2.78	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.18	0.812	2.81	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.48	0.947	3.37	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.82	1.29	4.39	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.31	0.874	3.05	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.74	1.24	4.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.54	0.893	3.33	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.19	0.623	2.43	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.4	0.94	3.28	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.47	0.997	3.46	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.23	0.76	2.75	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	1.06	0.599	2.26	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.43	1	3.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	1.23	0.936	3.1	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-JUL-12 to 31-JUL-12

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.22	0.758	2.73	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.33	0.804	2.93	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.11	0.672	2.45	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.17	0.72	2.62	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.3	0.713	2.73	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.2	0.727	2.65	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	1.41	0.567	2.55	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.08	0.657	2.39	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.01	0.676	2.36	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.15	0.705	2.56	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.28	0.776	2.83	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.08	0.647	2.37	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.07	0.647	2.36	
2,3',5',6-Tetrachlorobiphenyl (73)	pg/L	1.12	0.751	2.63	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.25	0.704	2.66	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.21	0.739	2.69	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.06	0.62	2.3	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.39	0.839	3.07	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.22	0.655	2.53	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.51	0.762	3.03	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.55	0.819	3.19	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	1.9	1.01	3.92	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.37	0.53	2.43	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	1.4	0.531	2.46	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	1.58	0.614	2.81	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.39	0.739	2.87	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.41	0.57	2.55	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.33	0.702	2.74	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.44	0.787	3.01	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.41	0.759	2.93	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.935	3.36	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.853	0.505	1.86	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	1.45	0.588	2.62	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.27	0.686	2.64	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.21	0.661	2.53	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	1.14	0.695	2.53	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.75	0.972	3.69	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.56	0.875	3.31	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	2.02	1.17	4.37	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.66	0.927	3.51	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	3.55	2.92	9.4	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.01	0.517	2.05	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.23	0.626	2.49	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.78	0.982	3.74	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.6	0.893	3.39	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.962	0.498	1.96	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-JUL-12 to 31-JUL-12

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.02	0.54	2.1	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.73	0.991	3.71	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.66	0.941	3.54	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.82	1.06	3.94	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.65	0.945	3.54	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.35	0.769	2.89	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.46	0.791	3.05	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.69	0.994	3.68	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.66	0.985	3.63	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.73	1.01	3.75	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.61	0.956	3.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.78	1.07	3.93	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.37	0.576	2.52	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.89	0.492	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.62	0.961	3.55	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.71	0.998	3.71	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.96	1.12	4.21	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.66	0.979	3.62	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.5	0.864	3.23	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.15	0.62	2.39	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.961	0.533	2.03	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.83	1.07	3.97	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	4.97	10.9	26.9	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1.14	0.586	2.31	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.906	0.501	1.91	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.868	0.486	1.84	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	1.34	0.708	2.76	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.38	0.746	2.87	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.925	0.457	1.84	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.75	0.932	3.62	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.42	0.799	3.02	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.24	0.716	2.67	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.28	0.74	2.76	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.15	0.675	2.5	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	1.28	0.725	2.73	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.49	0.843	3.17	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.31	0.764	2.84	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.33	0.727	2.79	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.49	0.821	3.13	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.25	0.606	2.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.56	0.695	2.95	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.27	0.646	2.56	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.55	0.79	3.13	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.31	0.852	3.01	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	1.03	0.676	2.38	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.26	0.639	2.54	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-JUL-12 to 31-JUL-12

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.38	0.908	3.2	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	1.02	0.668	2.35	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.31	0.497	2.3	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.24	0.632	2.51	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.72	1.12	3.96	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.42	0.737	2.9	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	1.01	0.673	2.36	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	1.09	0.712	2.52	
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	pg/L	1.3	0.85	3	
2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	pg/L	1.14	0.71	2.57	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	1.3	0.644	2.59	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.949	0.459	1.87	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.922	0.442	1.8	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1.04	0.519	2.08	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.941	0.398	1.74	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.02	0.428	1.87	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.909	0.442	1.79	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.827	0.319	1.46	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.06	0.398	1.86	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.7	0.364	1.43	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.83	0.387	1.6	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.92	0.43	1.78	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.706	0.358	1.42	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.907	0.384	1.68	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.1	0.529	2.15	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.787	0.389	1.57	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.885	0.43	1.74	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.839	0.325	1.49	

** = PQL adjusted to the MBCV.*

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-12 to 31-AUG-12

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.22	0.882	2.99	
3-Chlorobiphenyl (2)	pg/L	1.28	1.07	3.42	
4-Chlorobiphenyl (3)	pg/L	1.11	0.743	2.59	
2,2'-Dichlorobiphenyl (4)	pg/L	2.36	1.8	5.96	
2,3-Dichlorobiphenyl (5)	pg/L	1.57	1.26	4.09	
2,3'-Dichlorobiphenyl (6)	pg/L	1.28	0.924	3.13	
2,4-Dichlorobiphenyl (7)	pg/L	1.36	1.05	3.47	
2,4'-Dichlorobiphenyl (8)	pg/L	1.19	0.857	2.91	
2,5-Dichlorobiphenyl (9)	pg/L	1.76	1.09	3.94	
2,6-Dichlorobiphenyl (10)	pg/L	1.14	0.768	2.67	
3,3'-Dichlorobiphenyl (11)	pg/L	1.62	1.22	4.07	
3,4-Dichlorobiphenyl (12)	pg/L	1.9	1.29	4.47	
3,5-Dichlorobiphenyl (14)	pg/L	1.49	1.12	3.72	
4,4'-Dichlorobiphenyl (15)	pg/L	1.51	1.14	3.79	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.594	0.269	1.13	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.674	0.404	1.48	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.551	0.353	1.26	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.755	0.411	1.58	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.436	0.247	0.93	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.592	0.443	1.48	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.414	0.207	0.829	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.401	0.206	0.813	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.422	0.259	0.94	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.361	0.161	0.682	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.521	0.207	0.934	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.415	0.241	0.898	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.46	0.296	1.05	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.387	0.206	0.799	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.437	0.252	0.941	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.618	0.287	1.19	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.569	0.282	1.13	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.695	0.413	1.52	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.586	0.272	1.13	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.543	0.278	1.1	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	0.751	0.337	1.43	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	0.927	0.468	1.86	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	0.685	0.293	1.27	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	0.803	0.388	1.58	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	0.828	0.338	1.5	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.502	0.28	1.06	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.465	0.356	1.18	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	0.735	0.354	1.44	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.692	0.285	1.26	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.45	0.254	0.959	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	0.913	0.47	1.85	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.385	0.329	1.04	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-12 to 31-AUG-12

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.551	0.346	1.24	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.62	0.393	1.4	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.544	0.329	1.2	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.548	0.357	1.26	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.731	0.287	1.3	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.572	0.338	1.25	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.756	0.341	1.44	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.521	0.308	1.14	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.566	0.245	1.06	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.556	0.344	1.24	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.518	0.353	1.22	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.592	0.334	1.26	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.534	0.328	1.19	
2,3',5',6-Tetrachlorobiphenyl (73)	pg/L	0.589	0.293	1.18	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.633	0.371	1.38	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.586	0.345	1.28	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.525	0.311	1.15	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.585	0.442	1.47	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.598	0.412	1.42	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.754	0.391	1.54	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.778	0.436	1.65	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.831	0.493	1.82	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.702	0.327	1.36	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.882	0.424	1.73	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.853	0.361	1.57	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.691	0.374	1.44	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.71	0.337	1.38	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.723	0.328	1.38	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.625	0.387	1.4	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.673	0.38	1.43	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.638	0.352	1.34	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.32	0.273	0.865	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.781	0.312	1.4	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.612	0.348	1.31	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.613	0.347	1.31	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.391	0.374	1.14	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.706	0.493	1.69	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.633	0.43	1.49	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.716	0.579	1.87	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.675	0.453	1.58	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.08	4.81	14.7	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.481	0.279	1.04	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.537	0.342	1.22	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.716	0.504	1.72	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.645	0.457	1.56	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.478	0.262	1	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-12 to 31-AUG-12

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.485	0.283	1.05	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.692	0.471	1.63	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.658	0.48	1.62	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.73	0.495	1.72	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.666	0.465	1.6	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	0.564	0.385	1.33	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	0.623	0.397	1.42	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	0.711	0.483	1.68	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	0.696	0.471	1.64	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	0.96	0.606	2.17	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	0.674	0.459	1.59	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	0.757	0.528	1.81	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.54	0.33	1.2	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.413	0.3	1.01	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	0.645	0.466	1.58	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	0.662	0.475	1.61	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	0.846	0.6	2.05	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	0.699	0.468	1.64	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	0.645	0.436	1.52	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.44	0.297	1.03	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.347	0.256	0.859	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	0.668	0.529	1.73	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	0.667	0.496	1.66	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.442	0.305	1.05	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.326	0.238	0.802	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.324	0.222	0.768	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.577	0.33	1.24	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.457	0.381	1.22	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.346	0.262	0.869	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.684	0.441	1.57	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.531	0.402	1.33	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.467	0.311	1.09	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.777	0.968	2.71	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.486	0.325	1.14	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.46	0.327	1.11	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	0.568	0.424	1.42	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.532	0.384	1.3	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.555	0.347	1.25	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.545	0.378	1.3	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.585	0.312	1.21	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.728	0.316	1.36	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.582	0.314	1.21	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.623	0.411	1.44	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.469	0.309	1.09	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.38	0.231	0.843	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.606	0.312	1.23	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-12 to 31-AUG-12

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.529	0.308	1.15	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.406	0.211	0.829	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.05	1.32	3.7	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.539	0.308	1.16	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.536	0.409	1.35	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.816	0.591	2	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.343	0.234	0.811	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.377	0.257	0.891	
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	pg/L	0.525	0.338	1.2	
2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.41	0.289	0.989	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.481	0.321	1.12	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.454	0.231	0.916	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.433	0.232	0.896	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.46	0.265	0.99	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.581	0.24	1.06	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.511	0.294	1.1	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.436	0.232	0.9	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.398	0.195	0.788	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.546	0.235	1.02	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.318	0.183	0.684	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.374	0.24	0.853	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.435	0.238	0.911	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.329	0.182	0.693	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.41	0.29	0.991	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.542	0.296	1.13	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.4	0.21	0.819	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.451	0.24	0.93	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.516	0.28	1.08	

** = PQL adjusted to the MBCV.*

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-OCT-12 to 31-OCT-12

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.44	1.05	3.55	
3-Chlorobiphenyl (2)	pg/L	1.63	1.21	4.06	
4-Chlorobiphenyl (3)	pg/L	1.36	0.861	3.08	
2,2'-Dichlorobiphenyl (4)	pg/L	3.26	3.16	9.59	
2,3-Dichlorobiphenyl (5)	pg/L	2.74	2.6	7.94	
2,3'-Dichlorobiphenyl (6)	pg/L	2.2	2.04	6.27	
2,4-Dichlorobiphenyl (7)	pg/L	2.18	2.03	6.24	
2,4'-Dichlorobiphenyl (8)	pg/L	2.02	2	6.02	
2,5-Dichlorobiphenyl (9)	pg/L	2.59	2.38	7.34	
2,6-Dichlorobiphenyl (10)	pg/L	2.09	2.47	7.04	
3,3'-Dichlorobiphenyl (11)	pg/L	3.29	2.4	8.09	
3,4-Dichlorobiphenyl (12)	pg/L	2.62	2.13	6.87	
3,5-Dichlorobiphenyl (14)	pg/L	2.51	2.29	7.09	
4,4'-Dichlorobiphenyl (15)	pg/L	2.66	2.4	7.46	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.947	0.699	2.35	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.985	0.703	2.39	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.781	0.552	1.89	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.969	0.587	2.14	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.715	0.434	1.58	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.702	0.383	1.47	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.674	0.449	1.57	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.645	0.445	1.53	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.689	0.495	1.68	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.586	0.392	1.37	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.724	0.45	1.62	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.721	0.524	1.77	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.741	0.411	1.56	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.667	0.487	1.64	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.758	0.535	1.83	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.789	0.532	1.85	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.745	0.496	1.74	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.838	0.53	1.9	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.787	0.539	1.86	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.687	0.466	1.62	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.1	0.763	2.63	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.66	1.32	4.31	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.14	0.821	2.78	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.34	1.05	3.45	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.17	0.772	2.71	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.753	0.559	1.87	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.738	0.623	1.98	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.19	0.874	2.94	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.07	0.749	2.57	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.694	0.533	1.76	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.3	0.98	3.26	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.495	0.362	1.22	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-OCT-12 to 31-OCT-12

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.783	0.632	2.05	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.847	0.689	2.23	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.832	0.689	2.21	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.775	0.634	2.04	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.981	0.658	2.3	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.794	0.641	2.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.866	0.586	2.04	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.794	0.673	2.14	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.869	0.609	2.09	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.837	0.719	2.28	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.682	0.578	1.84	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.748	0.606	1.96	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.814	0.675	2.16	
2,3',5',6-Tetrachlorobiphenyl (73)	pg/L	0.9	0.626	2.15	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.93	0.709	2.35	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.872	0.695	2.26	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.777	0.612	2	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.76	0.616	1.99	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.882	0.644	2.17	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.37	0.806	2.98	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.46	0.935	3.33	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	1.29	0.833	2.96	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.06	0.574	2.2	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	1.12	0.598	2.32	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	1.3	0.719	2.73	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.27	0.82	2.91	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.1	0.619	2.34	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.25	0.789	2.82	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.04	0.69	2.42	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.21	0.778	2.76	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.2	0.778	2.76	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.617	0.533	1.68	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	1.18	0.668	2.52	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.07	0.716	2.5	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.15	0.756	2.66	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.648	0.513	1.67	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.2	0.816	2.83	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.06	0.747	2.55	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.04	0.808	2.65	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.07	0.796	2.66	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.19	0.488	2.16	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.845	0.522	1.89	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.26	1.49	4.24	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.2	0.841	2.88	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.75	1.67	5.08	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.863	0.531	1.93	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-OCT-12 to 31-OCT-12

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.856	0.545	1.95	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.18	0.871	2.93	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.13	0.796	2.72	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.31	0.877	3.06	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.1	0.771	2.64	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	0.967	0.595	2.16	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.03	0.627	2.29	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.28	0.815	2.91	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.27	0.866	3	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.2	0.8	2.8	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.23	0.809	2.85	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.38	1	3.39	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.78	0.475	1.73	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.579	0.429	1.44	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.762	2.65	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.07	0.717	2.51	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.19	0.708	2.61	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.26	0.842	2.95	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.15	0.745	2.64	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.736	0.511	1.76	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.56	0.405	1.37	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.06	0.72	2.5	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.09	0.737	2.56	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.746	0.522	1.79	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.532	0.393	1.32	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.552	0.392	1.34	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	1.03	0.63	2.29	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.651	0.449	1.55	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.511	0.33	1.17	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.955	0.632	2.22	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.808	0.501	1.81	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.734	0.572	1.88	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.879	0.551	1.98	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.86	0.535	1.93	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.686	0.527	1.74	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	0.847	0.516	1.88	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.907	0.597	2.1	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.767	0.554	1.88	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.814	0.545	1.9	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.02	0.52	2.06	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.99	0.454	1.9	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.939	0.502	1.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.954	0.451	1.86	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.775	0.49	1.76	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.612	0.393	1.4	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.02	0.48	1.98	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-OCT-12 to 31-OCT-12

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.82	0.514	1.85	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.609	0.39	1.39	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.6	1.71	5.02	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.831	0.451	1.73	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.769	0.481	1.73	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.902	0.432	1.77	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.543	0.353	1.25	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.59	0.381	1.35	
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	pg/L	0.756	0.45	1.66	
2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.628	0.385	1.4	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.703	0.434	1.57	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.703	0.351	1.41	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.692	0.357	1.41	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.7	0.366	1.43	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.7	0.411	1.52	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.753	0.447	1.65	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.649	0.326	1.3	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.51	0.227	0.964	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.753	0.316	1.38	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.494	0.265	1.02	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.548	0.278	1.1	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.634	0.331	1.3	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.498	0.261	1.02	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.608	0.317	1.24	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.731	0.403	1.54	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.57	0.34	1.25	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.605	0.339	1.28	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.656	0.348	1.35	

** = PQL adjusted to the MBCV.*