UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

SEP 30 2010

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 1060 0002 1872 2720)

Richard S. Watkins, Associate Director
Environment, Safety, Health & Quality
Los Alamos National Security, LLC
Los Alamos, NM 87545

Mr. Donald L. Winchell Jr., Manager
National Nuclear Security Administration
Los Alamos Site Office
Los Alamos, NM 87544

Re: NPDES Permit No. NM0030759
Final Permit Modification Decision

Dear Mr. Watkins:

This package constitutes EPA's final permit decision for the above referenced facility. Enclosed are the responses to comments received during the public comment period and the final permit.

Should you have any questions regarding the final permit, please feel free to contact Isaac Chen of the NPDES Permits Branch at the above address or VOICE:214-665-7364, FAX:214-665-2191, or EMAIL:chen.isaac@epa.gov. Should you have any questions regarding compliance with the conditions of this permit, please contact the Water Enforcement Branch at the above address or VOICE:214-665-6468.

Sincerely yours,

Miguel I. Flores
Director
Water Quality Protection Division

Enclosures

cc (w/enclosures): New Mexico Environment Department

NPDES PERMIT NO. NM0030759
RESPONSE TO COMMENTS

RECEIVED ON THE SUBJECT DRAFT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT MODIFICATION IN ACCORDANCE WITH REGULATIONS LISTED AT 40 CFR §124.17

PERMITTEES:	Los Alamos National Security, LLC Management Contractor for Operations Los Alamos, New Mexico 87544 and U.S. Department of Energy Los Alamos Area Office Los Alamos, NM 87544
ISSUING OFFICE:	U.S. Environmental Protection Agency Region 6 1445 Ross Avenue Dallas, Texas 75202-2733
PREPARED BY:	Isaac Chen Environmental Engineer Permits & Technical Section (6WQ-PP) NPDES Permits Branch Water Quality Protection Division VOICE: 214-665-7364 FAX: 214-665-2191 EMAIL: chen.isaac@epa.gov
PERMIT ACTION:	Final permit decision and response to comments received on the draft NPDES permit modification publicly noticed on April 30, 2010.
DATE PREPARED:	September 28, 2010

Unless otherwise stated, citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations, revised as of April 30, 2010.

BACKGROUND

On February 13, 2009, EPA Region 6 issued NPDES Permit No. NM0030759 ("the Permit") to co- permittees Los Alamos National Security, LLC (LANS) and the U.S. Department of Energy ("DOE") for discharges of storm water associated with industrial activity from solid waste management units (SWMUs) and areas of concern (AOCs) (collectively "Sites") located at the Los Alamos National Laboratory (LANL) facility in Los Alamos County, NM. The facility covers approximately 40 square miles and is situated on the Pajarito Plateau in Northern New Mexico, which consists of a series of finger-like mesas separated by deep west-to-east oriented canyons cut by predominantly ephemeral and intermittent streams. The majority of the approximately 400 SWMUs and AOCs covered by the permit are remotely located and not associated with current industrial activities.

On March 13, 2009, the Western Environmental Law Center on behalf of Amigos Bravos, Concerned Citizens for Nuclear Safety, Embudo Valley Environmental Monitoring Group, Honor Our Pueblo Existence, New Mexico Acequia Association, Partnership for Earth Spirituality, J. Gilbert Sanchez, Kathy Sanchez, and Tewa Women United ("Petitioners") filed a Petition for Review of the Permit with the EPA Environmental Appeals Board (EAB) under 40 CFR 124.19(a). On April 13, 2009, LANS/DOE filed a Motion to Intervene and Request for Leave to Respond to the Petition for Review. On April 21, 2009, the EAB granted LANS/DOE's request to intervene.

Following extensive settlement discussions, EPA, the Petitioners and LANS/DOE agreed to the terms and conditions of a permit modification addressing the concerns raised in the Petition for Review. Modification of the Permit will allow the parties to resolve the Petition for Review and finalize the terms and conditions of the Permit without the expense and delay of continued litigation. EPA believes the permit modification is consistent with the CWA and federal regulations and that modification of the Permit is in the best interest of EPA, the permittees and the public. The permit modification strengthens and clarifies storm water control at the LANL facility, while providing for increased public involvement in permit implementation and compliance.

On April 30, 2010, and in accordance with 40 C.F.R. §124.10, the proposed permit modification was noticed to the public for review until a 30 day comment period. As a result of comments received, changes have been made to the modified permit publicly noticed on April 30, 2010. Those changes and the rationale for the changes are explained in the following response to state certification and response to comments.

STATE CERTIFICATION

Section 401(a) of the CWA provides that any applicant for a federal permit to conduct any activity which may result in any discharge into the navigable waters must provide the

permitting agency a certification from the state in which the discharge originates that any such discharge will comply with the applicable provisions of CWA sections 208(e), 301, 302, 303, 306, and 307 and with appropriate requirements of state law, including state water quality standards. Under Section 401(a), no permit shall be granted until the required certification has been obtained or waived, and no permit shall be granted if such certification has been denied. Pursuant to the New Mexico Water Quality Act [Chapter 74, Article 6 NMSA 1978], the New Mexico Environment Department (NMED) is the agency tasked with providing State certification of federal permits in accordance with the CWA. [Chapter 74-6-4.F NMSA 1978]. NMED provided the Environmental Protection Agency, Region 6 (EPA) with its CWA Section 401 certification of the draft permit modification by letter from Glenn E. Saums (NMED) to Miguel Flores (EPA), dated June 3, 2010. NMED provided further clarification of its certification by letter to EPA dated September 22, 2010. The State's certification contains both Conditions of Certification and general comments. The Conditions of Certification are revisions to the permit that the State has determined are necessary to ensure that discharges allowed under the permit protect state water quality standards adopted in accordance with § 303 of the CWA and the New Mexico Water Quality Act [Chapter 74, Article 6 NMSA 1978]. New Mexico state water quality standards are published in a document entitled Standards for Interstate and Intrastate Surface Waters, New Mexico Water Quality Control Commission, 20.6.4 NMAC (As amended through August 1, 2007). CWA Section 401(d) provides that "[a]ny certification provided under this section ...shall become a condition of any Federal license or permit subject to the provisions of this section. Under federal regulations, no final permit may be issued "[u]nless the final permit incorporates the requirements specified in the certification." 40 C.F.R. § 124.55(a)(2).

Conditions of Certification

(1) NMED states that neither the RCRA No Further Action nor NMED's Certificate of Completion processes typically or consistently require monitoring of surface water discharges from sites to confirm efficacy of correction action. Therefore, NMED requires that confirmation sampling be conducted to document successful completion of corrective actions and prior to deletion of the Sites from LANL's NPDES permit. Specifically, NMED requires that EPA include a sampling requirement similar to that which was included in the permit as issued, i.e. a minimum of two confirmation samples in accordance with Part I.D. of the modified permit for all parameters specified in Appendix B for each Site, that meet applicable target action levels to document success of corrective actions or eligibility for deletion of a Site from the permit. NMED suggests the following language to incorporate the condition of certification in Part I.2 (b) of the modified Permit:

(a) The Site has met RCRA's No Further Action status or the site has received a Certificate of Completion under NMED's Consent Order and confirmation samples of runoff have demonstrated concentrations no greater than applicable target action levels. [added language underlined].

NMED also states that EPA must make it clear that, based on the analytical results of the confirmation sampling, appropriate actions, including corrective actions as provided in Part I.E. must be taken, and include appropriate language changes to Parts I.E.1(b), I.E.2(d) and I.I.2 (b).

By letter to EPA dated September 22, 2010, NMED clarified its certification to provide for no changes to Part I.E.2 (d) of the proposed modified permit. In its September 22nd clarification letter, NMED stated that changes to Parts I.E.1 (b) and I.I.2 (b), along with existing language in Part I.E.1 (c), would sufficiently address required actions to be taken and confirmation sampling of Sites that have met RCRA's No Further Action status or have received a Certificate of Completion under NMED's Consent Order. Furthermore, NMED suggested the following revision to the language in Part I.E.1 (b):

(b) If the Permittees decide to achieve corrective action under this Section through demonstration that the Site has achieved RCRA "no further action" status or a Certificate of Completion under NMED's Consent Order, Permitttes will be in compliance with this Permit at that Site once they have certified such results to EPA and provided the supporting documentation from NMED, and no further confirmation sampling is required except as provided by Section E.5 (c) and Section I.2 (b). [added language underlined]

Response: As required by CWA § 401 and 40 C.F.R. § 124.55 (see discussion above), Parts I.E.1 (b) and I.I.2 (b) of the final modified permit have been revised to include the language suggested in the States' Conditions of Certification.

RESPONSE TO COMMENTS ON DRAFT PERMIT MODIFICATION

EPA received comment letters from the following entities:

Amigos Bravos, Concerned Citizens for Nuclear Safety, Embudo Valley Environmental Monitoring, Honoring Our Pueblo Existence, Partnership for Earth Spirituality, Rio Grande Restoration and Tewa Women United ("the Citizen Groups") via e-mail dated June 7, 2010;
Los Alamos National Laboratory (LANL) via letter dated June 7, 2010; and
New Mexico Environment Department (NMED) via letter dated June 3, 2010.

EPA has consolidated similar comments for response.

Comment 1: Commenters noted that there are inconsistencies between Appendix A and Appendix A-1 to the proposed modified permit.

Response: Appendix A-1 to the proposed modified permit included outdated coordinate information. This information has been updated and a corrected Appendix A-1, consistent with Appendix A, is attached to the final permit modification.

Comment 2: Both NMED and the Citizen Groups oppose the removal of PCB monitoring requirements from two (2) Sites: Site No. 16-018 (CDV-SMA-2.41) and Site No. 16-010(b) (CDV-SMA-2.42). The commenters noted that samples collected by the NMED Oversight Bureau in 2005 at former CDV-SMA-2.4 (which was the sampling location for Site Nos. 16-018 and 16-010(b) under the 2005 Federal Facilities Compliance Agreement) detected levels of PCBs above the State of New Mexico's surface water human health criterion of 0.00064 ug/L, and argued that this data indicates there may be a source of PCBs that has not yet been discovered upstream from former CDV-SMA-2.4. The commenters contend that monitoring requirements for PCBs should be maintained at Site Nos. 16-018 and 16-010(b) until it can be demonstrated that these Sites are not the source of the PCB contamination.

LANL provided comments in support of removing the PCB monitoring requirements at the two Sites. LANL stated that as a result of the corrective action requirements under the 2005 RCRA Order on Consent, LANL has extensive information concerning the potential pollutant sources at these Sites and that none of the information supports a conclusion that PCBs were handled, managed or stored there. In addition, as a result of extensive RCRA closure and clean-up activities, the Sites no longer contain significant industrial materials. LANL argued that detection of PCBs levels above the surface water human health criterion alone does not justify a permit requirement for PCB monitoring when 1) there is no evidence that PCBs were managed, handled or disposed of at these Sites and 2) extensive RCRA clean-up activities and removal of contaminated media mean the Sites no longer contain significant industrial material that could potentially discharge to a water of the U.S.

Response: As noted by the commenters, PCB monitoring data collected under the 2005 Federal Facilities Compliance Agreement (FFCA) shows PCB concentrations in storm water samples from CDV-SMA-2.4 above State human health criteria. Under the FFCA, CDV-SMA-2.4 was the sampling location for Sites Nos. 16-018 and 16-010(b). Under the proposed modified permit, CDV-SMA-2.4 has been eliminated and Site Nos.16-018 and Site 16-010(b) are monitored at two separate monitoring locations, CDV-SMA-2.41 and CDV-SMA-2.42, respectively. The commenters argued that the samples collected by the NMED Oversight Bureau indicate there may be an undiscovered source of PCBs upstream from these monitoring locations. Based on information provided by LANL, EPA is not convinced that these two Sites are the source of the PCBs. However, the samples collected by the NMED Oversight Bureau at least raise questions concerning whether or not these Sites continue to contain significant industrial materials that could be discharged to waters of the U.S. and whether those materials are the source of the PCB hits. As a result, EPA believes it is reasonable to retain the PCB monitoring requirements for these two Sites for the time being.

Comment 3: The Citizen Groups also raised questions concerning sampling data contained in the Risk Analysis, Communication, Evaluation, and Reduction (RACER) Project online database indicating the presence of PCBs in discharges from S-SMA-4. Although there is no S-SMA-4 under the proposed modified permit, the commenters requested investigation into whether the sites associated with S-SMA-4 are covered under the permit, perhaps under S-SMA-4.1 or S-

SMA-4.5. If the sites associated with S-SMA-4 are covered under S-SMA-4.5, the commenters oppose the removal of PCB monitoring requirements at S-SMA-4.5. If the sites associated with S-SMA-4 are not covered under the permit, commenters suggest they should be added.

LANL commented that S-SMA-4.1 was formerly identified at S-SMA-4 under the FFCA as the sampling location for Site No. 53-014. S-SMA-4 was renumbered S-SMA-4.1 under the proposed modified permit, but remains the sampling location for Site No. 53-014. Under the proposed modified permit, PCB monitoring is required at Site No. 53-014 (S-SMA-4.1).

Response: EPA agrees that S-SMA-4 is now S-SMA-4.1 under the modified permit and is the sampling location for Site No. 53-014. Because PCB monitoring is required at this Site under the modified permit, no changes to the permit are required.

Comment 4: NMED commented that the term "No Further Action" as used in the proposed modified permit (and in the Permit as issued) is outdated. Under the State's RCRA program, the term "No Further Action" is no longer recognized as a completion of corrective action activities at RCRA facilities. Final Guidance on Completion of Corrective Action Activities at RCRA Facilities defines two types of completion determinations: 1) Corrective Action Complete Without Controls; and 2) Corrective Action Complete With Controls. Corrective Action Complete Without Controls indicates that either there was no need for corrective action at the Site, or where corrective action was necessary, the remedy has been implemented successfully and no further activity or controls are necessary to protect human health and the environment. NMED requested that terms in the final modified permit that cross reference the RCRA program be standardized for clarity and proper implementation.

Also, for purposes of clarification, NMED noted that the Certificate of Completion described in Section VII.E.6.b of the Consent Order does not constitute a RCRA permit modification as required to change the status of a Site from Corrective Action Required to Corrective Action Complete. Such a change of RCRA permit status is only accomplished by a Class III Permit Modification in accordance with 40 CFR 270.42(c).

Response: EPA agrees that RCRA terms used in the modified permit should be consistent with terms used by the State RCRA program. Accordingly, the term "no further action" as used in the modified permit as proposed has been replaced with "corrective action complete without controls/corrective action complete with controls" in the final modified permit. NMED's clarification comment is noted.

Comment 5: NMED noted that its certification of the Permit as issued required the use of EPA *Method 1668 Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS* [EPA No EPA-821-R-00-002] (Congener Method) for purposes of monitoring for PCBs. NMED also noted that this method, like most analytical methods, has been and continues to be updated, and stated that it had no objection to EPA providing for the use of the most current revision of the Congener Method in the final modified permit.

Response: EPA agrees that the permit should allow for use of the most current revision of the Congener Method. For clarity, language has been added to Footnote 4 of Section I.C. of the final modified permit to specify that Method 1668A, or the most current revision of the Congener Method shall be used for PCB analysis.

Comment 6: NMED noted that the last sentence of Part I.D.4 (a) of the proposed modified permit states, "The two samples required for initial sampling under Section D.1 are sufficient to meet this requirement provided analytical results for the pollutant of concern at issue are at or below applicable target action levels." NMED stated that this statement is misplaced and misleading in its current location. NMED requested that EPA move this sentence to follow the first sentence in the paragraph.

Response: EPA disagrees. This sentence clarifies that samples taken pursuant to Section D.1 of the Permit may be used as the two confirmation samples required under Section D.4.(a). Because the sentence preceeding this sentence sets out the requirement of a minimum of two confirmation samples under Section D.4.(a), EPA believes the sentence at issue to be appropriately placed.

Comment 7: NMED noted that the first sentence of Part I.E.1 (c) of the proposed modified permit states, "...and, where applicable shall provide sampling results within 30 days of receipt of analytical results from the first measureable storm event after completion of such measures." NMED commented that it believes EPA's intent was to require the permittee to provide sampling results within 30 days of receipt of analytical results from all measureable storm events, not just the first one. NMED suggested EPA modify this language to clarify that all sampling results must be provided within 30 days of receipt of analytical results.

Response: EPA disagrees with the comment. The language cited by the commenters relates specifically to the permittees' certification of completion of installation of control measures under Part I.E.1. (a) or (b) of the proposed modified permit – and to any sampling required to be performed during the first measurable storm event following completion of installation of such measures. Because the language is intended to be specific to analytical results from sampling performed during the first measurable storm event following completion of installation of control measures sufficient to achieve corrective action, EPA does not believe any change is needed to the permit language. Note: Sampling procedures applicable to all samples taken for purposes of confirmation monitoring are set out under Part I.D. of the Permit.

Comment 8: NMED commented that under the Permit as issued, Part I.B.3 ("Required Modifications" to the SDPPP) contains the following requirement: "This permit requires that the permittees keep records of these changes with the SDPPP so that the SDPPP be kept up-to-date with any of these changes. Changes as supplement to the SDPPP document must be made no later than fourteen (14) days from the date the Permittees discover or observe an event requiring a modification." NMED noted that Part I.F.3 of the proposed permit modification ("Required

Modifications" to the SDPPP) does not contain these requirements. NMED requests that EPA include this language so that required modifications are recorded and completed in a timely manner to ensure compliance with the permit's conditions and applicable monitoring requirements.

Response: Although the language in Part I.F.3.of the proposed modified permit has been rewritten for clarity, EPA believes the Permittees' obligations with regard to updating the SDPPP and keeping documents and records with the SDPPP to reflect changes made are for the most part the same as those in Part I.B.3. of the Permit as issued. Part I.F.3. of the proposed modified permit provides as follows:

> The Permittees must keep documents and records with the SDPPP as necessary to reflect: (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.

The changes in circumstances listed as requiring documentation under this section are identical to the changes in circumstances listed under Part I.B.3 of the Permit as Issued. Although the permit modification does omit the requirement that the Permittees update the SDPPP within fourteen days from the date the Permittees discover or observe an event requiring a modification, EPA believes this omission is reasonable. Upon further consideration of this requirement, EPA determined that the 14 day deadline would be unnecessarily burdensome on the Permittees without providing much added benefit to EPA, the public or the environment. Requiring the Permittees to update the SDPPP within 14 days of any event requiring a modification, even a small one, could require numerous and repeated updates to the SDPPP within any given period of time. EPA believes it makes more sense, in terms of the efficient use of time and resources, to allow the Permittees to fully update the document once per year to incorporate all changes made. As noted above, the Permittee are still required to keep documents and records with the SDPPP to reflect any changes made and the Permittees are still required to make such documentation available upon request. In addition, under Part I.I.7 of the permit as modified, the Permittees are required to establish, within 6 months of the effective date of the Permit, a public web site where information on the Permit, including the SDPPP, Annual Reports, DMRs, transmittal correspondence between Permittees and EPA, and other relevant data and documents, will be made available. Under the Permit as modified, the Permittees are also required to provide e-mail notifications to registered members of the public regarding any modification to the Permit or SDPPP, including changes to SMA locations, removal, deletion, or addition of Sites and completions of corrective action.

Comment 9: NMED commented that Part I.I.1 of the proposed modified permit, "Construction Activity Permit Associated with Site Remediation," authorizes storm water discharges from any

site listed in Appendix A associated with site remediation activity. NMED requested that EPA consider if numeric and/or non-numeric Final Effluent Guidelines (see 40 CFR §450.22 effective February 1, 2010) to control the discharge of pollutants from construction sites must be incorporated into this permit modification. For example, EPA's Final Effluent Guidelines require that on August 1, 2011 all construction sites that disturb 20 and on February 2, 2014 all construction sites that disturb 10 or more acres of land at one time are required to comply with the turbidity limitation. EPA's limitation is 280 NTU (nephelometric turbidity units).

Response: A determination as to whether EPA's final Construction and Development Effluent Limitation Guidelines (C & D ELGs), effective February 1, 2010, apply to storm water discharges associated with Site remediation activities performed pursuant to this industrial storm water permit involves a site specific analysis that is beyond the scope of this permit. Thus, upon further consideration of Part I.I.1 of the proposed modified permit and in light of EPA's promulgation of the C & D ELGs, EPA has determined that it is unworkable to provide coverage for storm water discharges associated with construction activity under this permit. Consequently, Part I.I.1 of the final modified permit has been revised to provide that storm water dischargers associated with construction activity disturbing one acre or more are not covered under the permit. Storm water discharges associated with construction activity disturbing one acre or more must be covered under EPA's Construction General Permit (CGP) or through a separate individual NPDES permit.

Comment 10: NMED noted that Part II.A of the proposed modified permit states, "The permittees may also develop congener-basis storm water effluent-specific MQLs for PCBs. Upon written approval by the EPA Region 6 NPDES Permits and TMDL Branch (6WQ-P), the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) reporting requirements." NMED points out that, as noted in Part I.C Footnote (*4), congener-basis storm water effluent-specific MQLs for PCBs have already been developed by the permittees and are included in Appendix C.

Response: Comment noted. This provision resulted from a concern that congener-based MQLs for industrial waste water discharges might not be suitable for storm water due to the different natures of these two types of discharges. No change is made to the permit as proposed.

Comment 11: NMED recommends including several Sites where storm water discharges exceeded multiple hardness-dependent water quality criteria as High Priority Sites. LANL comments that the specific Sites chosen for the High Priority Site list (63 individual sites) were chosen based on prioritization of Sites in recognition of the large number of Sites subject to the Permit and the unique characteristics and contaminants of each Site. Prioritization recognizes that it is not possible or feasible for the Laboratory to certify corrective action compliance within the stringent 3-year deadline for other sites (342 sites identified as Moderate Priority Sites). All Sites are important, and must meet the stringent compliance deadlines under the Permit.

Response: EPA shares NMED's concerns regarding Sites where prior sampling has demonstrated significant levels of pollutants in storm water discharges and EPA agrees that these Sites should be addressed as quickly as resources allow. However, as noted by LANL, the division of Sites into High Priority Sites, with a 3 year deadline for certification of completion of corrective action, and Moderate Priority Sites, with a 5 year deadline for certification of completion of corrective action, was in recognition of the fact that it was not reasonable to require the Permittees to address all Sites within the more stringent 3 year timeframe and that it made sense to have the Permittees focus first on some of the most significant discharges. The placement of Sites into either the High Priority or Moderate Priority category was a subjective process, based on the unique characteristics and contaminants of each Site. While arguments could be made for or against placing any number of Sites into one category or the other, EPA believes the designations made in the permit modification as proposed are reasonable. No change has been made to the permit modification as proposed.

Comment 12: For several of the Sites listed in Appendix E, typographical errors associated with the specification of planned controls were identified. Three other sites reflect a change from baseline complete to planned controls due to recent changes in controls associated with adjacent facility decommissioning activities by Los Alamos County and LANL site remediation activities at Technical Area 21. Other Sites reflect a change in the planned Best Management Practice category that will result in improved storm water management. These changes are reflected in the table below.

No.	SMA Number	Update
2	R-SMA-1	Channel/Swale should be checked as Run-on, not Run-off.
6	R-SMA-2.5	Delete Berm category, Check Dam should be checked as Run-on, add Channel/Swale and check Run-on and Erosion Control.
9	P-SMA-0.3	Site is no longer baseline complete. Recent decommissioning activities by Los Alamos County at the Waste Water Treatment Plant removed controls and altered the Site. We are currently re-assessing baseline controls.
14	P-SMA-3.05	Delete Seed and Mulch category, this treatment has matured into Established Vegetation .
20	DP-SMA-0.4	Berm should have check for Run-off, delete Gabion category, add Channel/Swale and check Run-on and Erosion Control.
21	DP-SMA-0.6	Site conditions have changed due to decommissioning activities at TA-21. We are currently re-assessing baseline controls.
22	DP-SMA-1	Remove checks for Seed and Mulch Run-off and Sediment Control, add check for Erosion Control
25	DP-SMA-3	Site is no longer baseline complete. Site conditions have changed due to decommissioning activities at TA-21. We are currently re-assessing baseline controls.
63	LA-SMA-	Remove check for Channel/Swale Run-on.

	10.11	
233	A-SMA-2.7	Remove check for Berm Run-on. Add Check Dam for Run-on and Sediment Control.
237	A-SMA-4	Remove check for Berm Run-Off. Add Check Dam for Run-off and Sediment Control.
240	CHQ-SMA-1.01	Delete Check Dam category, check Run-off for Berm.

Response: Appendix E has been updated accordingly.

Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

NPDES Permit No. NM0030759

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

Los Alamos National Laboratory (LANL), managed and owned by co-Permittees

Los Alamos National Security, LLC Management Contractor for Operations Los Alamos, New Mexico 87545	and	U.S. Department of Energy Los Alamos Area Office Los Alamos, New Mexico 87544

is authorized to discharge storm water associated with industrial activities from specified solid waste management units (SWMUs) and areas of concern (AOCs) (as identified in Appendix A and referred to herein as "Sites") from the facility located at Los Alamos, New Mexico,

to receiving waters named: tributaries or main channels of Mortandad Canyon, Canada del Buey, Los Alamos Canyon, DP Canyon, Sandia Canyon, Ten Site Canyon, Canyon de Valle, Water Canyon, Ancho Canyon, Bayo Canyon, Chaquehui Canyon, Fence Canyon, Pajarito Canyon, Twomile Canyon, Threemile Canyon, Potrillo Canyon, Pueblo Canyon, and Rendija Canyon, in Water Body Segment No. 20.6.4.97, 20.6.4.126 or 20.6.4.128 of the Rio Grande Basin,

in accordance with this cover page and monitoring requirements, and other conditions set forth in Parts I [Requirements for NPDES Permits], II [Other Conditions], and III [Standard Conditions for NPDES Permits] hereof.

This permit shall become effective on November 1, 2010

This permit and the authorization to discharge shall expire at midnight, March 31, 2014

Issued on September 30, 2010

Prepared by

Miguel I. Flores
Director
Water Quality Protection Division (6WQ)

Isaac Chen
Environmental Engineer
NPDES Permits Branch (6WQ-P)

PART I - REQUIREMENTS FOR NPDES PERMITS

This Permit authorizes only those storm water discharges associated with solid waste management units (SWMUs) and area of concerns (AOCs) listed in Appendix A of the Permit. The SWMUs and AOCs identified in Appendix A are collectively referred to throughout this Permit as "Sites." This Permit does not authorize storm water discharges associated with current conventional industrial activities at the Permittees' LANL facility. Storm water discharges associated with current conventional industrial activities shall be covered under EPA's NPDES general permit for storm water discharges from industrial activity, also known as the Multi-Sector General Permit (MSGP).

The Permit contains non-numeric technology-based effluent limitations, coupled with a comprehensive, coordinated monitoring program and corrective action where necessary, to minimize pollutants in Permittees' storm water discharges. As used in this Permit, "minimize" means to reduce and/or eliminate discharges of pollutants in storm water to the extent achievable using site-specific control measures (including best management practices) that reflect best industry practice considering their technological availability, economic achievability and practicability

Permittees are required to implement site-specific control measures (including best management practices) to address the non-numeric technology-based effluent limits contained in the Permit, followed by confirmation monitoring against New Mexico water-quality criteria-equivalent target action levels to determine the effectiveness of the site-specific measures. Permittees must also develop a Site Discharge Pollution Prevention Plan (SDPPP) consistent with Section F.1.of the Permit describing the control measures used to meet the requirements of the Permit.

A. NON-NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS

For all Sites identified in Appendix A of this Permit, the Permittees must implement baseline control measures to meet the following non-numeric technology-based effluent limits as necessary to minimize pollutants in its storm water discharges.

1. **Erosion and Sedimentation Controls**. The Permittees must minimize discharges of pollutants caused by onsite erosion and sedimentation. The Permittees must implement structural and non-structural, vegetative, and/or stabilization control measures as necessary to achieve this requirement.

2. **Management of Run-on and Runoff.** The Permittees must divert, infiltrate, reuse, contain or otherwise reduce storm water run-on/runoff in order, to minimize pollutants in discharges. The Permittees must implement storm water runoff management practices, e.g., permanent structural control measures that are necessary to minimize pollutants in the discharge. Nothing in this permit relieves the Permittees of the obligation to implement additional control measures required by other Federal authorities, or by a State or local authority. Structural control measures, which involve the discharge of dredge or fill material into any

receiving waters (e.g., wetlands) may require a separate permit under section 404 of the CWA before installation.

3. **Employee Training.** The Permittees must provide training, at least once per year, to all employees who work in areas where industrial materials or activities are exposed to storm water, or who are responsible for implementing activities identified in the SDPPP (e.g., inspectors, maintenance personnel), including all members of the Site Discharge Pollution Prevention Team (referred to Pollution Prevention Team in this Permit). Training must cover both the specific components and scope of the SDPPP and the control measures required under this Part.

4. **Unauthorized Discharges.** The Permittees must eliminate non-stormwater discharges (e.g. process wastewater, spills or leaks of toxic or hazardous materials, contaminated groundwater, or any contaminated non-storm water) not authorized by an NPDES permit.

5. **Other Controls.** The Permittees must do the following where applicable:

(a) Implement controls to ensure that no waste, garbage, or floatable debris are discharged to receiving waters, except as authorized by a permit issued under section 404 of the CWA;

(b) Minimize the generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments;

(c) Minimize the introduction of raw, final, or waste materials to exposed areas; and

(d) Place flow velocity dissipation devices at discharge locations and along the length of any discharge channel if the flows would otherwise create erosive conditions.

B. CONTROL MEASURES

1. Installation of Baseline Control Measures

Permittees must select, design, install and implement baseline control measures (including best management practices) to minimize storm water pollutant discharges as necessary to meet the non-numeric effluent limits established in Part I.A. of the Permit. The selection, design, installation, and implementation of these measures must be in accordance with good engineering practices and manufacturer's specifications. Failure to install and implement control measures to meet the non-numeric effluent limits within six (6) months of the effective date of the Permit is a violation of this Permit. At some Sites, control measures to address the non-numeric effluent limits under this Permit have already been installed and implemented before the effective date of this Permit. Permittees shall certify completion of baseline control measures to address the non-numeric effluent limits to EPA within 30 days of completion of such measures, or if such

measures have already been installed, then within 30 days after the effective date of the Permit. Such certification shall be signed in accordance with 40 CFR 122.22(b) and shall include a description and photographs of all completed baseline control measures. Such certification shall be forwarded to the Chief of the NPDES Compliance Section (R6-ENWC), with copies to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB).

The specific baseline control measures installed or to be installed at each Site within 6 months of the effective date of the Permit to meet the non-numeric effluent limits are described in Appendix E to the Permit.

2. Maintenance of Control Measures

The Permittees must maintain all control measures in effective operating condition. Failure to do so is a violation of this Permit. The Permittees must keep documentation onsite that describes procedures and a regular schedule for preventative maintenance of all control measures and discussions of back-up practices in place should a runoff event occur while a control measure is off-line. Nonstructural control measures must also be diligently maintained (e.g., employee training). Nothing in this Permit shall be construed to prevent the Permittees from taking action(s) to modify control measures as appropriate to address deficiencies.

If during inspections, or any other event or observation, control measures that are not operating effectively are identified, the Permittees must repair or replace them before the next anticipated storm event if possible, or as soon as practicable following that storm event. In the interim, the Permittees must have back-up measures in place.

C. APPLICABLE TARGET ACTION LEVELS

The target action levels established below are based on and equivalent to New Mexico State water quality criteria for the subject pollutants. The applicable target action levels are not themselves effluent limitations, but are benchmarks to determine the effectiveness of control measures implemented to meet the non-numeric technology-based effluent limitations. Monitoring results based on validated analytical data showing pollutant concentrations above applicable target action levels at any Site indicate that corrective action is required as provided in Section E. of this Part.

Total, unless indicated	CAS No.	STORET	MQL (µg/l)(*1)	ATAL (µg/l)(*2)	MTAL (µg/l)(*3)
RADIOACTIVITIES					
Ra-226 and Ra-228 (pCi/l)		11503		30	---
Adjusted Gross Alpha (pCi/l)		80029		15	---
METALS					
Aluminum, dissolved	7429-90-5	01106	2.5	---	750
Antimony, dissolved (P)	7440-36-0	01095	60	640	---
Arsenic, dissolved (P)	7440-38-2	01000	0.5	9	340

Total, unless indicated	CAS No.	STORET	MQL (µg/l)(*1)	ATAL (µg/l)(*2)	MTAL (µg/l)(*3)
Boron, dissolved	7440-42-8	01020	100	5000	---
Cadmium, dissolved	7440-43-9	01025	1	---	0.6 (*5)
Chromium, dissolved	7440-47-3	01030	10	---	210 (*5)
Cobalt, dissolved	7440-48-4	01035	50	1000	---
Copper, dissolved	7440-50-8	01040	0.5	---	4.3 (*5)
Lead, dissolved	7439-92-1	01049	0.5	---	17 (*5)
Mercury	7439-97-6	71900	0.005	0.77	1.4
Nickel, dissolved (P)	7440-02-0	01067	0.5	---	170 (*5)
Selenium	7782-49-2	01147	5	5	20
Silver, dissolved	7440-22-4	01075	0.5	---	0.4 (*5)
Thallium, dissolved (P)	7440-28-0	01057	0.5	6.3	---
Vanadium, dissolved	7440-62-2	01085	50	100	---
Zinc, dissolved	7440-66-6	01090	20	---	42 (*5)
CYANIDE					
Cyanide, weak acid dissociable	57-12-5	00718	10	5.2	22
DIOXIN					
2,3,7,8-TCDD (P)	1746-01-6	34675	0.00001	5.1E-08	---
SEMIVOLATILE COMPOUNDS					
Pentachlorophenol	87-86-5	39032	5	---	19
Benzo(a)pyrene (P)	50-32-8	34247	5	0.18	---
Hexachlorobenzene (P)	118-74-1	39700	5	0.0029	---
PESTICIDES					
Aldrin (P)	309-00-2	39330	0.01	0.0005	3
Gamma-BHC	58-89-9	39340	0.05	---	0.95
Chlordane (P)	57-74-9	39350	0.2	0.0081	2.4
4,4'-DDT and derivatives (P)	50-29-3	39300	0.02	0.001	1.1
Dieldrin (P)	60-57-1	39380	0.02	0.00054	0.24
Alpha-Endosulfan	959-98-8	34361	0.01	---	0.22
Beta-Endosulfan	33213-65-9	34356	0.02	---	0.22
Endrin	72-20-8	39390	0.02	---	0.086
Heptachlor	76-44-8	39410	0.01	---	0.52
Heptachlor Epoxide	1024-57-3	39420	0.01	---	0.52
Toxaphene	8001-35-2	39400	0.3	---	0.73
PCBS					
PCBs (P)	1336-36-3	39516	(*4)	0.00064	---
HIGH EXPLOSIVES					
RDX	121-82-4			200	---
2,4,6-Trinitrotoluene (TNT)	118-96-7			20	---

Footnote:

(*1) MQL is the minimum quantification level. EPA approved analytical methods with the same or more sensitive detectable level (DL) than MQL shall be used. If an individual analytical test result is smaller than the MQL listed above, a value of zero (0) or "ND" may be used for reporting and action purpose.

(*2) ATAL stands for Average Target Action Level

(*3) MTAL stands for Maximum Target Action Level

(*4) Method 1668 Revision A or the most current revision of the Congener Method shall be used for PCB analysis. See Appendix C for MQL.

(*5) Hardness-dependent metals target action levels.

D. CONFIRMATION MONITORING REQUIREMENTS

The Permittees shall monitor storm water discharges from Sites at specified sampling points known as site monitoring areas (SMAs) against applicable target action levels. The Permittees shall perform confirmation monitoring as detailed below following installation in accordance with Permittees' SDPPP of each site-specific control measure, including any enhanced or additional control measure installed as corrective action. Pollutants of concern to be monitored are specified in Appendix B.

1. Initial Sampling

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 below:

(a) For Sites at which baseline control measures to address the non-numeric effluent limits in Part I.A. of the Permit have already been installed and implemented prior to the effective date of this permit, the Permittees shall collect two or more confirmation samples. One (1) confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart and within one (1) year after the effective date of this Permit at associated SMAs.

(b) For Sites at which baseline control measures to address the non-numeric effluent limits in Part I.A. of the Permit are installed within six (6) months of the effective date of the permit, the Permittes shall collect two or more confirmation samples. One (1) confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart) and within eighteen (18) months after the effective date of this Permit at associated SMAs.

2. Sampling Locations

All samples taken for purposes of confirmation monitoring shall be taken in compliance with the monitoring requirements specified below at SMAs specified in Appendix A to the Permit. Instead of monitoring at each individual Site, the Permittees may, when appropriate based on drainage patterns for the affected Sites, monitor two or more Sites in conjunction at an associated

SMA, so long as the SMA and all associated Sites are identified in Appendix A to the Permit. SMA locations are based on reasonable site accessibility for sampling purposes and the Permittees' best judgment to ensure that samples taken at a particular point will be representative of discharges from Sites in the drainage area. The Permit may be modified, in accordance with the provisions of 40 C.F.R. § 122.62, to relocate a SMA based on a determination that the SMA is no longer representative of the drainage area for a Site or Sites, provided sufficient technical justification for the relocation is included with Permittee's request for permit modification. Any change in SMA location must be documented in an update to the SDPPP. Permittees may move a sampler to make minor adjustments that arise due to changes in natural conditions, unexpected events or as otherwise necessary to ensure that the sample location is representative. Such changes can include minor updates in Site boundaries, changes in storm water drainage patterns, logistical, or security adjustment. Any such movement of a sampler will be documented in the annual SDPPP, and be made available for public review. The Permittees shall provide that any permit modification request to EPA will be emailed to email list pursuant to Section I.7.b.

The Permittees must include the following information in their SDPPP regarding each SMA:

(a) Location of each Site within the SMA drainage area;
(b) Coordinates for sampling location;
(c) If more than one Site is monitored by a SMA, information to demonstrate those Sites are expected to discharge substantially identical effluents; and
(d) Estimates of the size of the drainage area (in square feet) for each of the Sites and the total drainage area of the associated SMA.

3. Sampling Procedures

Any sampling performed for purposes of confirmation monitoring at a particular SMA must be performed following a storm event after installation of applicable control measures that results in an actual discharge from that Site or Sites and that produces sufficient volume to perform the required analyses (referred to herein as a "measurable storm event"), provided the interval since the preceding sampled storm event is at least fifteen (15) days. For each sampling event, the Permittees must identify the date and duration (in hours) of the storm event(s) sampled, rainfall measurements or estimates (in inches) of the storm event that generated the sampled runoff, and the duration between the storm event samples and the end of the previous measurable storm event. The Permittees may take meteorological information from the nearest meteorological tower or automated rain gage. Snow melt samples shall not be used for purposes of confirmation monitoring.

Grab samples shall be taken when discharge occurs. Samples must be collected beginning within the first thirty (30) minutes of (or as soon after as practical, but beginning no later than one (1) hour after) a measurable storm event. Samples shall not be used if the collected volume of sample is insufficient to perform all required analyses. Samples from the same SMA shall be at least fifteen (15) days apart.

4. Confirmation Results below Target Action Levels

(a) If all analytical results for a particular pollutant of concern at a particular SMA are at or below the maximum target action level (MTAL) and the average of all applicable sampling results is at or below the average target action level (ATAL), or the applicable minimum quantification level (MQL), whichever is greater, monitoring of that pollutant at the same SMA is no longer required for the remaining period of the permit. An exception is made for instances in which future installation of control measures at the Site or Sites being monitored involves soil disturbance. As described in Section E.5.a below, if soil disturbance is involved, the Permittees must again sample for all listed pollutants of concern at that SMA. A minimum of two confirmation samples must be collected and analyzed before removing a particular pollutant of concern from monitoring requirements under this Section, except as provided in Sections E.5.(d) and (e) below. The two samples required for initial sampling under Section D.1 are sufficient to meet this requirement provided analytical results for the pollutant of concern at issue are at or below applicable target action levels.

(b) If 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 (except as provided in Section E. 5.). Permittees are required to continue to inspect all Sites in accordance with Section G. of the Permit and to maintain all control measures in effective operating condition as required by Section B.2. A minimum of two confirmation samples must be collected and analyzed before removing a Site or group of Sites from monitoring requirements under this Section, except as provided in Sections E.5.(d) and (e) below. The two samples required for initial sampling under Section D.1 are sufficient to meet this requirement provided analytical results for all pollutants of concern at the SMA at issue are at or below applicable target action levels.

E. CORRECTIVE ACTION

As specifically described below, if confirmation monitoring shows target action levels are not being met at a particular Site, 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 stormwater at the Site; or through (iv) a 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.

1. Confirmation Results above Target Action Levels

(a) If, following installation of baseline control measures, any validated sample analytical result for a specific pollutant of concern at a particular SMA is greater than the applicable MTAL (or applicable MQL, whichever is greater) or the average of all applicable sampling results is greater than the applicable ATAL (or applicable MQL, whichever is greater), the Permittees shall conduct visual inspections for all Sites within the SMA drainage area, reevaluate the existing control measures, and initiate corrective action as soon as practicable. Such corrective action may entail the design and installation of enhanced (additional, expanded or better

tailored) control measures reasonably expected to achieve compliance with target action levels indentified in the Permit for all Sites within the SMA drainage area. If this type of corrective action is selected, at least two confirmation samples shall be collected (one confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart) following installation of any enhanced control. If either validated confirmation sample result for any specific pollutant of concern exceeds applicable target action levels, 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 action under Sections E.2 or 3 as soon as practicable.

(b) If the Permittees decide to achieve corrective action under this Section through installation of measures to totally eliminate exposure of pollutants to stormwater at a Site, Permittees will be in compliance with this Permit at that Site once they have certified and demonstrated to EPA, through the submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally eliminate exposure of pollutants to stormwater, and no further confirmation sampling is required, unless required by Section E.5(c). Thereafter, Permittees shall collect one sample and make the analytical results available via email notification and on the public website pursuant to Section I.7 of the Permit. If the Permittees decide to achieve corrective action under this Section through installation of total retention measures, Permittees will be in compliance with this Permit at that Site once they have certified and demonstrated to EPA, through the submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally retain discharges of stormwater, and no further confirmation sampling is required, unless required by Section E.5(c). If the Permittees decide to achieve corrective action under this Section 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, Permittees will be in compliance with this Permit at that Site once they have certified such results to EPA and provided the supporting documentation from NMED, and no further confirmation sampling is required except as provided by Section E.5(c) and Section I.2(b).

(c) Permittees shall certify completion of installation of control measures under this subsection to EPA within 30 days of completion of all such measures at the Site and, where applicable shall provide sampling results within 30 days of receipt of analytical results from the first measurable storm event after completion of such measures. Such certification shall be signed in accordance with 40 C.F.R. Section 122.22(b) and shall include a description and photographs of all completed measures. Except as provided in Section I.2, Permittees are required to continue to inspect the Site in accordance with Section G of the Permit and to maintain all control measures in effective operating condition as required by Section B.2.

(d) For high priority sites, if no confirmation sample could be collected due to lack of a measurable storm event prior to the second year of the permit (or prior to 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.

2. <u>Completion of Corrective Action</u>

Permittees must certify to EPA, pursuant to 40 C.F.R. section 122.22(b), completion of

corrective action at all Sites within the deadlines established under Section E.4 below. Except as provided in subsection E.3 below, "Completion of Corrective Action" under this Permit shall mean:

(a) Analytical results from confirmation sampling show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable target action levels; or

(b) Control measures that totally retain and prevent the discharge of storm water have been installed at the Site; or

(c) Control measures that totally eliminate exposure of pollutants to stormwater have been installed at the Site; or

(d) 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;

3. Alternative Compliance

(a) Where Permittees believe they have installed measures to minimize pollutants in their storm water discharges as required by Part 1.A of the Permit at a Site or Sites, but are unable to certify Completion of Corrective action under Sections E.2.(a) through E.2.(d) above (individually or collectively) due, for instance, to force majeure events, background concentrations of pollutants of concern, site conditions that make it impracticable to install further control measures, or pollutants of concern contributed by sources beyond the Permittees control, the Permittees may seek to place a site into Alternative Compliance, whereby Completion of Corrective Action will be accomplished on a case-by-case basis, and as necessary, pursuant to a individually tailored compliance schedule determined by EPA.

(b) To seek to place a Site or Sites into Alternative Compliance, the Permittees must file a written request with EPA and provide written notice to the public and opportunity for public comment. Such a request must include a comprehensive description of the control measures installed at the Site or Sites and a detailed demonstration, including any underlying studies and technical information, of how the Permittees reached the conclusion that they are unable to certify Completion of Corrective action under Sections E.2.(a) through E.2.(d) above (individually or collectively).

Upon submitting such a request to EPA, the Permittees shall make the request and all supporting information available to the public for review and comment for a period of forty-five (45) days, and shall develop and provide to the commenters a written response document addressing all relevant and significant concerns raised during the comment period. Permittees' request under this subsection, along with the complete record of public comment and the Permittees' response to comments shall be submitted to EPA Region 6 for a final determination on the request.

In making a final determination to place a Site or Sites into Alternative Compliance, EPA shall carefully consider all of the information submitted by the Permittees, including all comments

received on the request and the Permittees response to those comments. The Permittees shall not be out of compliance with the applicable deadlines for achieving completion of corrective action under Section E.4 with respect to the Site or Sites covered by a request, provided that the request is submitted to EPA on or at least six months before the applicable deadlines.

(c) If the Permittees' request under this subsection is denied, EPA shall promptly notify the Permittees of the specifics of its decision and of the timeframe under which Completion of Corrective Action under Sections E.2.(a) through E.2. (d) above (individually or collectively) must be accomplished for that Site or Sites. EPA will determine the timeframe on a case-by-case basis taking into consideration the types of actions Permittees will be required to take, the time needed to complete such actions, and the need to complete corrective action as expeditiously as possible.

(d) If the Permittees' request under this subsection is granted, in whole or in part, EPA will issue a new, individually tailored work plan for the Site or Sites that may include, among other requirements, specific control measure enhancements, mitigation measures to address discharges from the Site or Sites, and any other requirements deemed necessary by EPA under the CWA, and will extend the compliance deadline for Completion of Corrective Action as necessary to implement the work plan. EPA may condition its response on the Permittees' acceptance of such conditions (applicable to the Site or Sites covered by the request) as may be reasonable and warranted in view of the demonstration submitted with the request.

4. Deadlines for Corrective Action

(a) High Priority Sites

The following Sites have been identified by the Permittees as High Priority Sites:

LIST OF HIGH PRIORITY SITES					
1	00-018(a)	22	02-009(b)	43	35-003(r)
2	00-019	23	02-009(c)	44	35-004(h)
3	01-001(d)	24	02-011(a)	45	35-009(d)
4	01-001(e)	25	02-011(b)	46	35-014(e2)
5	01-001(f)	26	02-011(c)	47	35-016(i)
6	01-003(a)	27	02-011(d)	48	35-016(k)
7	01-003(e)	28	03-009(i)	49	35-016(l)
8	01-006(h)	29	03-012(b)	50	35-016(m)
9	02-003(a)	30	03-013(a)	51	48-003
10	02-003(b)	31	03-014(b2)	52	50-006(a)
11	02-003(e)	32	03-021	53	50-006(d)
12	02-004(a)	33	03-029	54	50-009
13	02-005	34	03-045(b)	55	53-014
14	02-006(b)	35	03-045(c)	56	54-013(b)

15	02-006(c)	36	03-052(b)	57	54-017
16	02-006(d)	37	03-052(f)	58	54-018
17	02-006(e)	38	03-056(c)	59	54-020
18	02-007	39	20-002(c)	60	60-007(b)
19	02-008(a)	40	21-024(i)	61	72-001
20	02-008(c)	41	35-003(h)	62	73-001(a)
21	02-009(a)	42	35-003(p)	63	73-004(d)

Permittees must certify completion of corrective action under Part I.E.2 of the Permit for all 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 Section E.3 or E.5.d. Such certification shall be forwarded to the Chief of the NPDES Compliance Section (R6-ENWC), with copies to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB).

(b) Moderate Priority Sites

The remaining Sites identified in Appendix A are Moderate Priority Sites. Permittees must certify completion of corrective action under Part I.E.2 of the Permit for all Moderate Priority Sites within five (5) years of the effective date of the Permit, or such other time period as may be specified pursuant to Section E.3 or E.5.d. Such certification shall be forwarded to the Chief of the NPDES Compliance Section (R6-ENWC), with copies to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB).

(c) The Permittees may seek EPA approval for an extension to a deadline if the Permittees can demonstrate that "force majeure" has resulted, or will result, in a delay in meeting the obligation to confirm Completion of Corrective Action by the specified deadline:

> An event that constitutes "force majeure," includes, but is not limited to: (a) Acts of God, natural disasters such as fire or flood, war, terrorism, insurrection, civil disturbance, or explosion; (b) a federal government shut down, such as the ones that occurred in 1995 and 1996; (c) unanticipated breakage or accident to machinery, equipment or lines of pipe; (d) restraint by court order; (e) inability to obtain the necessary authorizations, approvals, permits or licenses due to an action or inaction caused by another governmental authority (f) unanticipated delays caused by compliance with applicable statutes or regulations governing contracting, procurement or acquisition procedures; and (g) inability to secure the reasonable cooperation of any other property owner in addressing storm water run-on to a Site or Sites from such property.

To obtain an extension from EPA, the Permitees shall describe in detail: (a) the cause or causes of the delay; (b) the expected duration of the delay, including any obligations that would be affected; (c) the actions taken or to be taken by the Permittees to minimize the delay; and (d) the timetable by which those actions are expected to be implemented.

EPA will notify the Permittees whether an extension is reasonably justified and provide a new reasonable deadline that takes into account the actual delay resulting from the event, anticipated seasonal construction conditions and any other relevant factors. If EPA does not agree to the extension, it will notify the Permittees in writing and provide the basis for its conclusion.

5. Additional Sampling Requirements

(a) If installation of control measures at a particular Site does not involve soil disturbance, the Permittees may choose to monitor only those pollutants for which previous monitoring data, including samples collected under the 2005 Federal Facility Compliance Agreement (FFCA), demonstrates an exceedence of the applicable target action levels as listed in Section **C** of this Permit. If monitoring of PCBs is required, analysis for PCBs must be re-conducted unless Method 1668A or later revision of congener method was used in the previous analyses. If soil disturbance is involved, all listed pollutants of concern at that Site listed in Appendix B of the Permit shall be analyzed. Installation and routine maintenance of monitoring devices is not considered to involve soil disturbance.

(b) Sampling is not required for any Site which is designated by the Permittees in writing to EPA as a "No Exposure" Site, provided such "No Exposure" status has been verified and confirmed in writing by EPA and the Site is continuously maintained under such status. EPA may request NMED provide such verification on behalf of EPA. (Note: "No Exposure" in this permit means that all pollutants of concern are protected from being exposed to storm water, including rain, snow, snowmelt and/or runoff).

(c) Notwithstanding the provisions of Sections D.4 and E.1, and except as provided in Section I.2, if a Site for which monitoring has ceased, later exhibits evidence of a discharge of contaminated runoff, or conditions that could lead to a discharge of contaminated runoff, such as control measure failure, erosion problems, re-exposure of "no exposure" Sites, or if monitoring data (from the facility, State or local agency), shows an exceedance of applicable target action levels, the Permittees shall initiate appropriate actions to correct the problems within thirty (30) days of being made aware of such information. After completion of any required corrective actions, at least two confirmation samples shall be taken. One confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart and within one (1) year of completion of the corrective action to evaluate the effectiveness of the action. If confirmation samples show the problem continues, control measures sufficient to reduce pollutant concentration levels to at or below target action levels or control measures designed to totally eliminate the discharge of pollutants from the Site shall be installed and implemented within one year from receipt of analytical results. Confirmation sampling is not required if such a corrective action is part of routine control measure maintenance prior to any evidence of discharge of contaminated runoff. Any actions taken under this paragraph must be summarized in the Annual SDPPP update and in the Annual Report.

(d) If, during any period in which two (2) confirmation samples are required, only one confirmation sample could be collected from a measurable storm event, compliance with applicable target action levels for that particular Site or Sites will be determined by the single confirmation sample result.

(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 target action levels for that particular Site or Sites will be determined based on the single result from the first successful confirmation sampling event. If the Permittees are unable to collect samples from a measurable storm event for a particular Site or Sites, the adjusted deadline for Completion of Corrective Action for that Site or Sites shall be 6 months after receipt of a single result from the first successful confirmation sampling event or the deadline specified under Section E.4 for that Site, whichever is later. In the event it is impracticable to meet the adjusted deadline due to conditions affecting the Permittees' ability to install the necessary measures, the Permittees may request a further extension. EPA may grant a further extension after taking into account the anticipated seasonal construction conditions and any other relevant factors.

(f) Monitoring Location Change. If the location of any SMA for any Site or Sites has been changed, confirmation samples must be analyzed for all pollutants of concern for that Site or Sites, as listed in Appendix B of the Permit.

F. SITE DISCHARGE POLLUTION PREVENTION PLAN (SDPPP)

The Permittees must prepare a SDPPP for the facility and submit it to EPA within six (6) months of the effective date of this Permit. The facility's SDPPP must remain compliant with relevant State, Tribal, and local regulations, if applicable.

1. Contents of SDPPP

The facility's SDPPP must describe all control measures selected to meet the non-numeric effluent limits specified in Section I.A. of the Permit. In addition, the facility's SDPPP must contain all of the elements described below. The SDPPP must also address the inspection requirements set forth in Section G below.

(a) Site Discharge Pollution Prevention Team. The Permittees must identify the staff members (by name or title) that comprise the facility's Site Discharge Pollution Prevention Team (Pollution Prevention Team). The Permittees' Pollution Prevention Team is responsible for assisting the facility manager in developing and revising the facility's SDPPP as well as maintaining control measures and taking corrective actions for deficiencies. Specific responsibilities of each staff individual on the Team must be identified and listed in the SDPPP. Each member of the Pollution Prevention Team must have ready access to either an electronic or paper copy of applicable portions of this Permit and the facility's SDPPP.

(b) Site Description. The facility's SDPPP must include historical activities at each Site, precipitation information, general location map, and Site maps.

(c) Receiving Waters and Wetlands. The SDPPP must include the name(s) of all receiving waters that receive discharges from Sites covered by this permit. The SDPPP must also include the size and description of wetlands or other special aquatic sites.

(d) Summary of Potential Pollutant Sources. The SDPPP must identify each Site at the facility where industrial materials or activities were previously exposed to storm water and from which allowable non-storm water discharges were released. The SDPPP must also identify the pollutants of concern associated with those activities.

(e) Description of Control Measures. The SDPPP must identify the baseline control measures specified in Appendix E that will be, or which have been implemented for each Site to address the pollutant sources identified above, and to address storm water run-on that commingles with discharges associated with industrial activity. The Permittees must update the SDPPP as needed to document additional control measures implemented at any Site as a result of Corrective Action under Section E of the Permit. The SDPPP must include sufficient detail to identify and describe the Site-specific control measures.

(f) Schedules for Control Measure Installation. The SDPPP must include schedules for baseline control measure installation and implementation for each Site, and must be updated as necessary to include schedules for additional control measure installation and implementation resulting from Corrective Action under Section E of the Permit.

If the Permittees find that significant amounts of pollutants are running onto a specific Site, the Permittees should identify and address the contaminated run-on in the annual SDPPP update

(g) Monitoring and Inspection Procedures. The Permittees must document in the SDPPP schedules and planned procedures for sample collection and site inspection.

For each sample to be collected, the SDPPP must identify:

(i) Locations where samples are to be collected, including coordinates for sampling locations and any determination that two or more Sites are substantially identical;
(ii) Person(s) or positions of person(s) responsible for sample collection;
(iii) Parameters to be sampled and frequency of sampling for each parameter;
(iv) Procedures for gathering storm event data.

The Permittees must document in the SDPPP all tentative schedules and procedures for erosion and post-storm inspections as described in Sections G. 1 & 2.of the Permit below.

(h) Signature Requirements. The SDPPP shall be signed, certified and dated in accordance with 40 CFR 122.22(b) no later than one hundred-eighty (180) days from the effective date of this Permit.

2. <u>Documentation</u>

The initial SDPPP document must include records and documents as described in Section F.1 above to comply with this permit. Additionally, the Permittees are required to maintain inspection, monitoring, and certification documentation with the SDPPP that together keep the records complete and help to explain ongoing SDPPP implementation activities. These records

are maintained alongside the SDPPP document thereby providing a consolidated record of documented storm water requirements and implementation procedures.

Following the preparation of the initial SDPPP, the Permittees must at a minimum keep the following records and documentation alongside the SDPPP:

(a) Dates of training sessions, names of employees trained, and subject matter of training;

(b) Sampling reports including sampling dates, analytical results, outfall locations, name and qualifications of technician;

(c) Inspection reports, including visual inspections required by Section E.1 above, and any other information required to be included in an Inspection Report under Section G.3.below;

(d) An accounting of and explanation of the length of time taken to modify control measures or implement additional control measures following the discovery of a deficiency or the need for modification;

(e) Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, the date(s) that control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules.

3. Required Modifications

The Permittees must keep documents and records with the SDPPP as necessary to reflect:

(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 this Permit's conditions and applicable monitoring requirements. All changes must be incorporated into the SDPPP (see Section F.4 below) and a summary of these changes must be included in the Annual Report.

4. SDPPP Updates

The SDPPP shall be updated annually to fully incorporate all changes made during the previous year and to reflect any changes projected for the following year.

5. SDPPP Availability

The Permittees must retain a paper copy of the current SDPPP required by this Permit at the facility, and it must be immediately available to EPA, a State, Tribal or local agency approving storm water management plans, the Pollution Prevention Team members, and representatives of the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS) at the time of an onsite inspection or upon request. In accordance with Section I.7 of this permit, a copy of the SDPPP will also be made available on a public website.

G. INSPECTIONS

The Permittees must conduct the following inspections for every Site in addition to visual inspections required by Section E.1 above. The facility's Pollution Prevention Team (as identified in the Permittees' SDPPP – see Section F. of the Permit) may conduct a combined inspection for a Site, if appropriate.

1. Erosion Inspection and Reevaluation

The facility's Pollution Prevention Team shall inspect and evaluate each Site annually for changes of conditions affecting erosion. The facility's Pollution Prevention Team must also re-inspect and reevaluate all Sites after notice of a significant event, such as a fire, which could significantly impact the control measures and environmental conditions in the affected area. Such inspection and reevaluation should be conducted prior to the next anticipated storm event or as early as practicable.

2. Post-Storm Inspection

The facility's Pollution Prevention Team must inspect control measures and storm water management devices at any Site affected by a "storm rain event" defined below, within fifteen (15) calendar days after such storm rain event. The occurrence of a storm rain event as defined below shall be determined based on data from the nearest meteorological tower to any particular Site. A "storm rain event" under this paragraph means a 0.25-inch or more intensive rain event within 30 minutes.

If several storms exceeding the above intensity threshold occur over a period not to exceed fifteen (15) days from the first event, a single inspection following these storms is sufficient for compliance with this requirement, provided that the inspection occurs no more than fifteen (15) days from the date of the first storm. If adverse weather conditions prevent a site inspection within the required time period, the Permittees shall inspect the Site as soon as

practicable. Adverse weather events shall be documented and maintained with the SDPPP. Adverse weather conditions include dangerous weather-related events (e.g., flooding, wildfires, or hail) that make site inspection dangerous for worker safety.

3. Inspection Report

All inspection reports shall include, at a minimum, the following items:

(a) The personnel who conduct the inspections;

(b) Date(s) on which inspection was performed;

(c) A written summary of major observations, including observation of deficiency;

(d) A summary of evidence of potential contaminants, BMP failure, or alteration of management structure or runoff pathway, etc.;

(e) Actions that should be taken to correct noted deficiencies;

(f) Photo documentation of findings at the Site if necessary; and

(g) The signature of the delegated official of the Permittees and certification of findings, including observation of no deficiency.

H. REPORTING

1. Compliance Status Reports

Each SMA ID number shall be provided an outfall number for ease of reporting. That list is provided in Appendix D. Monitoring results for each SMA ID shall be reported on the sample forms provided in Appendix D. The information includes, at a minimum, the assigned outfall number, the SMA ID number, pollutants of concern greater than the applicable target action levels, targeted control measure completion date, and actual control measure completion date if control measure installation and implementation is complete. EPA may require the Permittees to submit additional information. These reports shall be signed, certified, and dated in accordance with 40 CFR 122.22(b).

Reporting period is from January 1st to December 31st. The first reporting period is from the effective date of the permit to December 31, 2010, and the first DMR report is due on March 1, 2011. In addition to electronic and paper reports to EPA 6's Enforcement Division, a copy of these reports shall be sent to the Chief of the NPDES Permits and Technical Assistance Section (6WQ-PP) and NMED's Surface Water Quality Bureau (SWQB).

2. Annual Reports

The Permittees shall submit an annual status report. This report shall include the following:

(a) For each SMA (or Site), a summary of the Site-specific compliance status during the report period;

(b) SMA and associated Outfall and Site(s) numbers/identifications;

(c) Monitoring results available during the reporting period;

(d) Identification of pollutants which exceed applicable MTAL or ATAL;

(e) Description of baseline control measures installed, including the completion date or targeted completion date;

(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;

(g) Identification of Sites which meet No Exposure status;

(h) Identification of 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;

(i) Highlights of any change of compliance status from the Annual Report;

(j) 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 Section E.3 Alternative compliance; and

(k) A summary of inspections performed in accordance with Sections G. 1 and 2 above, as well as for any visual inspections performed under Section E.1 above.

Copies of the Annual Reports in electronic format (e.g., compact discs or other acceptable media) shall be submitted to EPA 6EN, EPA 6WQ-PP and NMED's SWQB no later than March 1 of each year. A copy of each Report shall be kept with the facility's SDPPP and a copy of the most current Annual Report shall be maintained on Permittees' public website.

I. OTHER CONDITIONS

1. Construction Activity Associated with Site Remediation

If disturbance of soil is required to install a control measure, the Permittees shall take all necessary steps to minimize migration of sediments and runoff from disturbed sites. Steps taken to minimize discharges of contaminated runoff during remediation activity shall be included in the SDPPP update. The Permittees shall conduct site inspections once a week to ensure sediments and runoffs control measures are maintained in good order. Corrective actions shall be taken

immediately if deficiencies of sediments and runoff control measures are noticed either by inspectors or contractors. Storm water discharges associated with construction activity disturbing one acre or more are not covered under this permit. Storm water discharges associated with construction activity disturbing one acre or more must be covered under EPA's Construction General Permit (CGP) or through a separate individual NPDES permit.

2. Deletion of Site

The Permittees may submit a written request to remove a Site if the Permittees can demonstrate that the Site meets one of the following conditions:

(a) The Site was never used for management of hazardous waste, assuming the Site does not otherwise meet the definitions of industrial activities (40 CFR 122.26(b)(14)(i) through (xi)); or

(b) The Site has met RCRA's "corrective action complete without controls/corrective action complete with controls" status or the Site has received a Certificate of Completion under NMED's Consent Order and confirmation samples of runoff have demonstrated concentrations no greater than applicable target action levels.

EPA may approve such a request as a minor modification to the Permit under 40 C.F.R. § 122.63. If such a request is approved, EPA will notify the Permittees in writing and issue a written public notice that the Permit has been modified to remove the Site from the Permit prior to the expiration of the Permit. Documents to support such requests and decisions must be kept with facility's SDPPP. Once a Site is removed from the Permit, a discharge of contaminated runoff is no longer authorized by this Permit.

3. Watershed Protection Approach

EPA encourages the Permittees to voluntarily install watershed-based control measures, such as sediment barriers, to mitigate sediment or storm water runoff reaching the main channels of the canyons and/or the Rio Grande. The Permittees should include information and monitoring data regarding the installation of any such watershed-based control measures in the Annual Report or the SDPPP.

4. Record Keeping

The Permittees shall retain records of all monitoring information and reports, Site inspections and reports, decision making procedures and supporting documents and records, and annual SDPPP updates with supplemental information for at least three years after the issuance of the next permit renewal.

5. Reopener and Modification

This Permit may be reopened and modified in accordance with 40 C.F.R. § 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.

6. Permit Compliance

Any noncompliance with any of the requirements of this Permit constitutes a violation of the Clean Water Act. Failure to take any required corrective actions constitute an independent violation of this Permit and the Clean Water Act. As such, any actions and time periods specified for remedying noncompliance do not absolve parties of the initial underlying noncompliance. However, where corrective action is triggered by an event that does not itself constitute Permit noncompliance, such as an exceedance of an applicable target action level prior to the deadline for corrective action established in Section I.E.3 of the Permit, there is no permit violation provided Permittees take the required corrective action within the relevant deadlines.

Any corrective action required under this Permit must be completed by the deadlines or extensions established in Section E. of the Permit. If completion of corrective action, as defined under Section I.E.2 of the Permit, has not been demonstrated at any given Site by the deadlines or extensions established in Section E, Permittees are in violation of this Permit at that Site.

7. Public Involvement

(a) Website: Within six (6) months after the effective date of the Permit, the Permittees shall establish a public web site where information on the Permit, including the SDPPP, Annual Reports, Inspection Reports, DMRs, transmittal correspondence between Permittees and EPA, and other relevant data and documents, will be made available. A copy (either paper or electronic) of these documents will also be made available by the Permittees as soon as practicable to any member of the public who makes such a request in writing. Confidential Business Information (CBI) may not be withheld from regulatory agencies, but may be withheld from the public. All portions of the SDPPP not identified as CBI, pursuant to 40 CFR Part 2, must be provided to the public upon request.

(b) E-mail notification: The Permittees will provide the opportunity for members of the public to register for and receive e-mail notifications on compliance with the Permit on the public web site. E-mail notifications will provide notice of completion of installation of baseline control measures, updates on permit compliance, any requests for time extensions, spill information, and notification of any modification to the Permit or SDPPP including changing SMA locations, removing, deleting, or adding sites, and completions of corrective action. Such notifications will have a direct link to the specific document to which it relates. Notice will also be provided for any request to complete correction action under Section I.E.3 of the Permit.

(c) Public Meetings: The Permittees shall publish a public notice and send an email notification to members of the public who have registered as provided in Section 7(b) about public meetings which will be held approximately every 6 months. The Permittees shall update the public on implementation of and compliance with the permit and provide an opportunity for both written and oral public comment. The meetings may be combined with other public meetings, but Permittees shall provide a discrete, separate time for comment and discussion of this Permit.

Permittees shall email a draft Agenda at least one week before the meeting and will consider suggestions from the public for changes or additions to the Agenda.

J. Water Quality-Based Effluent Limits

Permittees must control discharges from all Sites as necessary to ensure that such discharges will not cause or contribute to a violation of applicable water quality standards. EPA believes that compliance with the technology-based effluent limitations and other terms and conditions of this permit will control discharges as necessary to meet applicable water quality standards.

PART II - OTHER CONDITIONS

A. MINIMUM QUANTIFICATION LEVEL (MQL)

If any individual analytical test result is less than the minimum quantification level listed in Part I.A.3.a. or in Appendix C, a value of zero (0) may be used for that individual result for reporting purpose.

The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40CFR136. For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to the EPA Region 6 NPDES Permits and TMDL Branch (6WQ-P) a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific minimum quantification level (MQL) shall be determined in accordance with the following calculation:

$$MQL = 3.3 \times MDL$$

The permittees may also develop congener-basis storm water effluent-specific MQLs for PCBs. Upon written approval by the EPA Region 6 NPDES Permits and TMDL Branch (6WQ-P), the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) reporting requirements.

B. 24-HOUR ORAL REPORTING

Exceedances of maximum target levels (MTLs) for any applicable pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas and NMED, Surface Water Quality Bureau (SWQB), Santa Fe, New Mexico within 24 hours from the time the permittee becomes aware of the exceedance.

C. COMPOSITE SAMPLING

Unless otherwise specified in this permit, the term "composite sample" means samples collected either by an automatic sampler or by manual, during the whole or part of a rainfall period, are composited prior to an analysis. The permittee may use either grab samples or flow-weighted composite samples for monitoring purpose for specific Sites as long as it keeps practice consistency.

D. DATA AVERAGE

The average is the geometric mean of applicable monitoring results at the SMA. If all analytical results are below analytical method detect level, a value of "zero" may be reported. If one or more data are above detect level, a value of one-half (½) of the detect level shall be assigned to those below detect level data 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.

If a new or an enhanced BMP is installed, the average is calculated based on analytical results from samples taken after installation of the BMP.

E. PERMIT REOPENER

The Permit may be reopened and modified during the life of the Permit if relevant portions of New Mexico's Water Quality Standards for Interstate and Intrastate Streams are revised, or new State water quality standards are established and/or remanded by the New Mexico Water Quality Control Commission.

The Permit also may be reopened and modified if new information, e.g., EPA approved TMDLs, and etc., is received that was not available at the time of permit issuance that would have justified the application of different permit conditions at the time of permit issuance.

PART III - STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. INTRODUCTION

In accordance with the provisions of 40 CFR Part 122.41, et. seq., this permit incorporates by reference ALL conditions and requirements applicable to NPDES Permits set forth in the Clean Water Act, as amended, (hereinafter known as the "Act") as well as ALL applicable regulations.

2. DUTY TO COMPLY

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

3. TOXIC POLLUTANTS

a. Notwithstanding Part III.A.5, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition.

b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

4. DUTY TO REAPPLY

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR Part 122.6 and any subsequent amendments.

5. PERMIT FLEXIBILITY

This permit may be modified, revoked and reissued, or terminated for cause in accordance with 40 CFR 122.62-64. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

6. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

7. DUTY TO PROVIDE INFORMATION

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

8. CRIMINAL AND CIVIL LIABILITY

Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to 18 U.S.C. Section 1001.

9. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

10. STATE LAWS

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

11. SEVERABILITY
The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

B. PROPER OPERATION AND MAINTENANCE

1. NEED TO HALT OR REDUCE NOT A DEFENSE
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators or retention of inadequately treated effluent.

2. DUTY TO MITIGATE
The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

3. PROPER OPERATION AND MAINTENANCE

a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

4. BYPASS OF TREATMENT FACILITIES

a. BYPASS NOT EXCEEDING LIMITATIONS
The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.b. and 4.c.

b. NOTICE

(1)ANTICIPATED BYPASS
If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(2)UNANTICIPATED BYPASS
The permittee shall, within 24 hours, submit notice of an unanticipated bypass as required in Part III.D.7.

c. PROHIBITION OF BYPASS

(1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

(a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

(c) The permittee submitted notices as required by Part III.B.4.b.

(2) The Director may allow an anticipated bypass after considering its adverse effects, if the Director determines that it will meet the three conditions listed at Part III.B.4.c(1).

5. UPSET CONDITIONS

   a. EFFECT OF AN UPSET
   An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part III.B.5.b. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

   b. CONDITIONS NECESSARY FOR A DEMONSTRATION OF UPSET
   A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   (1) An upset occurred and that the permittee can identify the cause(s) of the upset;

   (2) The permitted facility was at the time being properly operated;

   (3) The permittee submitted notice of the upset as required by Part III.D.7; and,

   (4) The permittee complied with any remedial measures required by Part III.B.2.

   c. BURDEN OF PROOF
   In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. REMOVED SUBSTANCES
   Unless otherwise authorized, solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

7. PERCENT REMOVAL (PUBLICLY OWNED TREATMENT WORKS)
   For publicly owned treatment works, the 30-day average (or Monthly Average) percent removal for Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR 133.103.

C. MONITORING AND RECORDS

1. INSPECTION AND ENTRY
   The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by the law to:

   a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

   c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

   d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

2. REPRESENTATIVE SAMPLING
   Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

3. RETENTION OF RECORDS
   The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

4. RECORD CONTENTS
   Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

b. The individual(s) who performed the sampling or measurements;

c. The date(s) and time(s) analyses were performed;

d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such analyses.

5. MONITORING PROCEDURES

a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator.

b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.

c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory.

6. FLOW MEASUREMENTS

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

D. REPORTING REQUIREMENTS

1. PLANNED CHANGES

a. INDUSTRIAL PERMITS

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b); or,

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements listed at Part III.D.10.a.

b. MUNICIPAL PERMITS

Any change in the facility discharge (including the introduction of any new source or significant discharge or significant changes in the quantity or quality of existing discharges of pollutants) must be reported to the permitting authority. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein.

2. ANTICIPATED NONCOMPLIANCE

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. TRANSFERS

This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. DISCHARGE MONITORING REPORTS AND OTHER REPORTS

Monitoring results must be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Monitoring results can be submitted electronically in lieu of the paper DMR Form. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR.epa.gov in-box for further instructions. Until you

are approved for Net DMR, you must report on the Discharge Monitoring Report (DMR) Form EPA. No. 3320-1 in accordance with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however when submitting paper form EPA No. 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.11 and all other reports required by Part III.D. to the EPA at the address below. Duplicate copies of paper DMR's and all other reports shall be submitted to the appropriate State agency (ies) at the following address (es):

EPA:
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-W)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

New Mexico:
Program Manager
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
1190 Saint Francis Drive
Santa Fe, NM 87502-5469

5. ADDITIONAL MONITORING BY THE PERMITTEE
If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR.

6. AVERAGING OF MEASUREMENTS
Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

7. TWENTY-FOUR HOUR REPORTING

a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain the following information:

(1) A description of the noncompliance and its cause;

(2) The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and,

(3) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.

b. The following shall be included as information which must be reported within 24 hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and,

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part II (industrial permits only) of the permit to be reported within 24 hours.

c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

8. OTHER NONCOMPLIANCE
The permittee shall report all instances of noncompliance not reported under Parts III.D.4 and D.7 and Part I.B (for industrial permits only) at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.7.

9. OTHER INFORMATION
Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. CHANGES IN DISCHARGES OF TOXIC SUBSTANCES
All existing manufacturing, commercial, mining, and silvacultural permittees shall notify the Director as soon as it knows or has reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(1) One hundred micrograms per liter (100 µg/L);
(2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2, 4-dinitro-phenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the Director.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(1) Five hundred micrograms per liter (500 µg/L);

(2) One milligram per liter (1 mg/L) for antimony;

(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the Director.

11. SIGNATORY REQUIREMENTS
All applications, reports, or information submitted to the Director shall be signed and certified.

a. ALL PERMIT APPLICATIONS shall be signed as follows:

(1) FOR A CORPORATION - by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

(a)A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,

(b)The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP - by a general partner or the proprietor, respectively.

(3) FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(a)The chief executive officer of the agency, or

(b)A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

b. ALL REPORTS required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described above;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental

matters for the company. A duly authorized representative may thus be either a named individual or an individual occupying a named position; and,

(3) The written authorization is submitted to the Director.

c. CERTIFICATION
Any person signing a document under this section shall make the following certification:

"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 gather and evaluate 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."

12. AVAILABILITY OF REPORTS
Except for applications, effluent data permits, and other data specified in 40 CFR 122.7, any information submitted pursuant to this permit may be claimed as confidential by the submitter. If no claim is made at the time of submission, information may be made available to the public without further notice.

E. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS

1. CRIMINAL

a. NEGLIGENT VIOLATIONS
The Act provides that any person who negligently violates permit conditions implementing Section 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

b. KNOWING VIOLATIONS
The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years, or both.

c. KNOWING ENDANGERMENT
The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 303, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years, or both.

d. FALSE STATEMENTS
The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309.c.4 of the Clean Water Act)

2. CIVIL PENALTIES
The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $27,500 per day for each violation.

3. ADMINISTRATIVE PENALTIES
The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:

a. CLASS I PENALTY
Not to exceed $11,000 per violation nor shall the maximum amount exceed $27,500.

b. CLASS II PENALTY
Not to exceed $11,000 per day for each day during which the violation continues nor shall the maximum amount exceed $137,500.

F. DEFINITIONS

All definitions contained in Section 502 of the Act shall apply to this permit and are incorporated herein by reference. Unless otherwise specified in this permit, additional definitions of words or phrases used in this permit are as follows:

1. ACT means the Clean Water Act (33 U.S.C. 1251 et. seq.), as amended.

2. ADMINISTRATOR means the Administrator of the U.S. Environmental Protection Agency.

3. APPLICABLE EFFLUENT STANDARDS AND LIMITATIONS means all state and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards or performance, toxic effluent standards and prohibitions, and pretreatment standards.

4. APPLICABLE WATER QUALITY STANDARDS means all water quality standards to which a discharge is subject under the Act.

5. BYPASS means the intentional diversion of waste streams from any portion of a treatment facility.

6. DAILY DISCHARGE means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day. "Daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be arithmetic average (weighted by flow value) of all samples collected during that sampling day.

7. DAILY MAXIMUM discharge limitation means the highest allowable "daily discharge" during the calendar month.

8. DIRECTOR means the U.S. Environmental Protection Agency Regional Administrator or an authorized representative.

9. ENVIRONMENTAL PROTECTION AGENCY means the U.S. Environmental Protection Agency.

10. GRAB SAMPLE means an individual sample collected in less than 15 minutes.

11. INDUSTRIAL USER means a non-domestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly owned treatment works.

12. MONTHLY AVERAGE (also known as DAILY AVERAGE) discharge limitations means the highest allowable average of "daily discharge(s)" over a calendar month, calculated as the sum of all "daily discharge(s)" measured during a calendar month divided by the number of "daily discharge(s)" measured during that month. When the permit establishes daily average concentration effluent limitations or conditions, the daily average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar month where C = daily concentration, F = daily flow, and n = number of daily samples; daily average discharge =

$$\frac{C_1F_1 + C_2F_2 + \ldots + C_nF_n}{F_1 + F_2 + \ldots + F_n}$$

13. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the Act.

14. SEVERE PROPERTY DAMAGE means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

15. SEWAGE SLUDGE means the solids, residues, and precipitates separated from or created in sewage by the unit processes of a publicly owned treatment works. Sewage as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff that are discharged to or otherwise enter a publicly owned treatment works.

16. TREATMENT WORKS means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement Section 201 of the Act, or necessary to recycle or reuse water at

the most economical cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereof.

17. UPSET means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

18. FOR FECAL COLIFORM BACTERIA, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.

19. The term "MGD" shall mean million gallons per day.

20. The term "mg/L" shall mean milligrams per liter or parts per million (ppm).

21. The term "µg/L" shall mean micrograms per liter or parts per billion (ppb).

22. MUNICIPAL TERMS

    a. 7-DAY AVERAGE or WEEKLY AVERAGE, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. The 7-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

    b. 30-DAY AVERAGE or MONTHLY AVERAGE, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. The 30-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

    c. 24-HOUR COMPOSITE SAMPLE consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.

    d. 12-HOUR COMPOSITE SAMPLE consists of 12 effluent portions collected no closer together than one hour and composited according to flow. The daily sampling intervals shall include the highest flow periods.

    e. 6-HOUR COMPOSITE SAMPLE consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.

    f. 3-HOUR COMPOSITE SAMPLE consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Los Alamos/Pueblo	Rendija Canyon	R-SMA-0.5	C-00-020	Rendija Canyon
		R-SMA-1	C-00-041	Rendija Canyon
		R-SMA-1.95	00-015	Rendija Canyon
		R-SMA-2.05	00-011(c)	Cabra Canyon - tributary to Rendija Canyon
		R-SMA-2.3	00-011(e)	Rendija Canyon
		R-SMA-2.5	00-011(a)	Rendija Canyon
Los Alamos/Pueblo	Bayo Canyon	B-SMA-0.5	10-001(a)	Bayo Canyon
			10-001(b)	
			10-001(c)	
			10-001(d)	
			10-004(a)	
			10-004(b)	
			10-008	
			10-009	
	Bayo Canyon	B-SMA-1	00-011(d)	Bayo Canyon
Los Alamos/Pueblo	Pueblo Canyon	ACID-SMA-1.05	00-030(g)	Acid Canyon - tributary to Pueblo Canyon
	Pueblo Canyon	ACID-SMA-2	01-002(b)-00	Acid Canyon - tributary to Pueblo Canyon
			45-001	
			45-002	
			45-004	
	Pueblo Canyon	ACID-SMA-2.01	00-030(f)	Acid Canyon - tributary to Pueblo Canyon
	Pueblo Canyon	ACID-SMA-2.1	01-002(b)-00	Acid Canyon - tributary to Pueblo Canyon
	Pueblo Canyon	P-SMA-0.3	00-018(b)	Pueblo Canyon
	Pueblo Canyon	P-SMA-1	73-001(a)	Pueblo Canyon
			73-004(d)	
	Pueblo Canyon	P-SMA-2	73-002	Pueblo Canyon
			73-006	
	Pueblo Canyon	P-SMA-2.15	31-001	Pueblo Canyon
	Pueblo Canyon	P-SMA-2.2	00-019	Graduation Canyon - tributary to Pueblo Canyon
	Pueblo Canyon	P-SMA-3.05	00-018(a)	Pueblo Canyon
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-0.85	03-055(c)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-0.9	00-017	Los Alamos Canyon
			C-00-044	
	Los Alamos Canyon	LA-SMA-1	00-017	Los Alamos Canyon
			C-00-044	
	Los Alamos Canyon	LA-SMA-1.1	43-001(b2)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-1.25	C-43-001	Los Alamos Canyon

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-2.1	01-001(f)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-2.3	01-001(b)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-3.1	01-001(e)	Los Alamos Canyon
			01-003(a)	
	Los Alamos Canyon	LA-SMA-3.9	01-001(g)	Los Alamos Canyon
			01-006(a)	
	Los Alamos Canyon	LA-SMA-4.1	01-003(b)	Los Alamos Canyon
			01-006(b)	
	Los Alamos Canyon	LA-SMA-4.2	01-001(c)	Los Alamos Canyon
			01-006(c)	
			01-006(d)	
	Los Alamos Canyon	LA-SMA-5.01	01-001(d)	Los Alamos Canyon
			01-006(h)	
	Los Alamos Canyon	LA-SMA-5.02	01-003(e)	
	Los Alamos Canyon	LA-SMA-5.2	01-003(d)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.35	C-41-004	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.31	41-002(c)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.33	32-004	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.361	32-002(b)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.362	32-003	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.51	02-003(a)	Los Alamos Canyon
			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)	
	Los Alamos Canyon	LA-SMA-5.52	02-003(b)	Los Alamos Canyon
			02-007	
			02-008(c)	
	Los Alamos Canyon	LA-SMA-5.53	02-009(a)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-5.54	02-009(c)	Los Alamos Canyon

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-5.91	21-009	BV Canyon - tributary to Los Alamos Canyon
			21-021	
			21-023(c)	
			21-027(d)	
	Los Alamos Canyon	LA-SMA-5.92	21-013(b)	BV Canyon - tributary to Los Alamos Canyon
			21-013(g)	
			21-018(a)	
			21-021	
	Los Alamos Canyon	LA-SMA-6.25	21-021	Los Alamos Canyon
			21-024(d)	
			21-027(c)	
	Los Alamos Canyon	LA-SMA-6.27	21-021	Los Alamos Canyon
			21-027(c)	
	Los Alamos Canyon	LA-SMA-6.3	21-006(b)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-6.31	21-027(a)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-6.32	21-021	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-6.34	21-021	Los Alamos Canyon
			21-022(h)	
	Los Alamos Canyon	LA-SMA-6.36	21-021	Los Alamos Canyon
			21-024(a)	
	Los Alamos Canyon	LA-SMA-6.38	21-021	Los Alamos Canyon
			21-024(c)	
	Los Alamos Canyon	LA-SMA-6.395	21-021	Los Alamos Canyon
			21-024(j)	
	Los Alamos Canyon	LA-SMA-6.5	21-021	Los Alamos Canyon
			21-024(i)	
	Los Alamos Canyon	LA-SMA-9	26-001	Los Alamos Canyon
			26-002(a)	
			26-002(b)	
			26-003	
	Los Alamos Canyon	LA-SMA-10.11	53-002(a)	Los Alamos Canyon
	Los Alamos Canyon	LA-SMA-10.12	53-008	Los Alamos Canyon
Los Alamos/Pueblo	DP Canyon	DP-SMA-0.3	21-029	DP Canyon
	DP Canyon	DP-SMA-0.4	21-021	DP Canyon
	DP Canyon	DP-SMA-0.6	21-021	DP Canyon
			21-024(l)	
	DP Canyon	DP-SMA-1	21-011(k)	DP Canyon
			21-021	

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Los Alamos/Pueblo	DP Canyon	DP-SMA-2	21-021	DP Canyon
			21-024(h)	
	DP Canyon	DP-SMA-2.35	21-021	DP Canyon
			21-024(n)	
	DP Canyon	DP-SMA-3	21-013(c)	DP Canyon
			21-021	
	DP Canyon	DP-SMA-4	21-021	DP Canyon
Sandia	Sandia Canyon	S-SMA-0.25	03-013(a)	Sandia Canyon
			03-052(f)	
	Sandia Canyon	S-SMA-1.1	03-029	Sandia Canyon
	Sandia Canyon	S-SMA-2	03-012(b)	Sandia Canyon
			03-045(b)	
			03-045(c)	
			03-056(c)	
	Sandia Canyon	S-SMA-2.01	03-052(b)	Sandia Canyon
	Sandia Canyon	S-SMA-2.8	03-014(c2)	Sandia Canyon
	Sandia Canyon	S-SMA-3.51	03-009(i)	Sandia Canyon
	Sandia Canyon	S-SMA-3.52	03-021	Sandia Canyon
	Sandia Canyon	S-SMA-3.53	03-014(b2)	Sandia Canyon
	Sandia Canyon	S-SMA-3.6	60-007(b)	Sandia Canyon
	Sandia Canyon	S-SMA-3.7	53-012(e)	Sandia Canyon
	Sandia Canyon	S-SMA-3.71	53-001(a)	Sandia Canyon
	Sandia Canyon	S-SMA-3.72	53-001(b)	Sandia Canyon
	Sandia Canyon	S-SMA-3.95	20-002(a)	Sandia Canyon
	Sandia Canyon	S-SMA-4.1	53-014	Sandia Canyon
	Sandia Canyon	S-SMA-4.5	20-002(d)	Sandia Canyon
	Sandia Canyon	S-SMA-5	20-002(c)	Sandia Canyon
	Sandia Canyon	S-SMA-5.2	20-003(c)	Sandia Canyon
	Sandia Canyon	S-SMA-5.5	20-005	Sandia Canyon
	Sandia Canyon	S-SMA-6	72-001	Sandia Canyon
Mortandad	Cañada del Buey	CDB-SMA-0.15	04-003(a)	Cañada del Buey
			04-004	
	Cañada del Buey	CDB-SMA-0.25	46-004(c2)	Cañada del Buey
	Cañada del Buey	CDB-SMA-0.55	46-004(e2)	Cañada del Buey
			46-004(g)	
			46-004(m)	
			46-004(s)	
			46-006(f)	

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Mortandad	Cañada del Buey	CDB-SMA-1	46-003(c)	SWSC Canyon - tributary to Cañada del Buey
			46-004(d2)	
			46-004(f)	
			46-004(t)	
			46-004(w)	
			46-008(g)	
			46-009(a)	
			C-46-001	
	Cañada del Buey	CDB-SMA-1.15	46-004(b)	Cañada del Buey
			46-004(y)	
			46-004(z)	
			46-006(d)	
	Cañada del Buey	CDB-SMA-1.35	46-004(a2)	Cañada del Buey
			46-004(u)	
			46-004(v)	
			46-004(x)	
			46-006(d)	
			46-008(f)	
	Cañada del Buey	CDB-SMA-1.54	46-004(h)	Cañada del Buey
			46-004(q)	
			46-006(d)	
	Cañada del Buey	CDB-SMA-1.55	46-003(e)	Cañada del Buey
	Cañada del Buey	CDB-SMA-1.65	46-003(b)	SWSC Canyon - tributary to Cañada del Buey
	Cañada del Buey	CDB-SMA-4	54-017	Cañada del Buey
			54-018	
			54-020	
Mortandad	Mortandad Canyon	M-SMA-1	03-050(a)	Mortandad Canyon
			03-054(e)	
	Mortandad Canyon	M-SMA-1.2	03-049(a)	Mortandad Canyon
	Mortandad Canyon	M-SMA-1.21	03-049(e)	Mortandad Canyon
	Mortandad Canyon	M-SMA-1.22	03-045(h)	Mortandad Canyon
	Mortandad Canyon	M-SMA-3	48-001	Mortandad Canyon
			48-005	
			48-007(c)	
	Mortandad Canyon	M-SMA-3.1	48-001	Mortandad Canyon
			48-007(b)	

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Mortandad	Mortandad Canyon	M-SMA-3.5	48-001	Mortandad Canyon
			48-003	
	Mortandad Canyon	M-SMA-4	48-001	Effluent Canyon - tributary to Mortandad Canyon
			48-005	
			48-007(a)	
			48-007(d)	
			48-010	
	Mortandad Canyon	M-SMA-5	42-001(a)	Effluent Canyon - tributary to Mortandad Canyon
			42-001(b)	
			42-001(c)	
			42-002(a)	
			42-002(b)	
	Mortandad Canyon	M-SMA-6	35-016(h)	Effluent Canyon - tributary to Mortandad Canyon
	Mortandad Canyon	M-SMA-7	35-016(g)	Effluent Canyon - tributary to Mortandad Canyon
	Mortandad Canyon	M-SMA-7.9	50-006(d)	Effluent Canyon - tributary to Mortandad Canyon
	Mortandad Canyon	M-SMA-9.1	35-016(f)	Mortandad Canyon
	Mortandad Canyon	M-SMA-10	35-008	Mortandad Canyon
			35-014(e)	
	Mortandad Canyon	M-SMA-10.01	35-016(e)	Mortandad Canyon
	Mortandad Canyon	M-SMA-10.3	35-014(e2)	Mortandad Canyon
			35-016(i)	
	Mortandad Canyon	M-SMA-11.1	35-016(o)	Mortandad Canyon
	Mortandad Canyon	M-SMA-12	35-016(p)	Mortandad Canyon
	Mortandad Canyon	M-SMA-12.5	05-005(b)	Mortandad Canyon
			05-006(c)	
	Mortandad Canyon	M-SMA-12.6	05-004	Mortandad Canyon
	Mortandad Canyon	M-SMA-12.7	05-002	Mortandad Canyon
			05-005(a)	
			05-006(b)	
			05-006(e)	
	Mortandad Canyon	M-SMA-12.8	05-001(a)	Mortandad Canyon
			05-002	
	Mortandad Canyon	M-SMA-12.9	05-001(b)	Mortandad Canyon
			05-002	
	Mortandad Canyon	M-SMA-12.92	00-001	Mortandad Canyon
	Mortandad Canyon	M-SMA-13	05-001(c)	Mortandad Canyon

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Mortandad	Ten-Site Canyon	Pratt-SMA-1.05	35-003(h)	Pratt Canyon - tributary to Ten-Site Canyon
			35-003(p)	
			35-003(r)	
			35-004(h)	
			35-009(d)	
			35-016(k)	
			35-016(l)	
			35-016(m)	
	Ten-Site Canyon	T-SMA-1	50-006(a)	Ten-Site Canyon
			50-009	
	Ten-Site Canyon	T-SMA-2.5	35-014(g3)	Ten-Site Canyon
	Ten-Site Canyon	T-SMA-2.85	35-014(g)	Ten-Site Canyon
			35-016(n)	
	Ten-Site Canyon	T-SMA-3	35-016(b)	Ten-Site Canyon
	Ten-Site Canyon	T-SMA-4	35-004(a)	Ten-Site Canyon
			35-009(a)	
			35-016(c)	
			35-016(d)	
	Ten-Site Canyon	T-SMA-5	35-004(a)	Ten-Site Canyon
			35-009(a)	
			35-016(a)	
			35-016(q)	
	Ten-Site Canyon	T-SMA-6.8	35-010(e)	Ten-Site Canyon
	Ten-Site Canyon	T-SMA-7	04-003(b)	Ten-Site Canyon
	Ten-Site Canyon	T-SMA-7.1	04-001	Ten-Site Canyon
			04-002	
Pajarito	Twomile Canyon	2M-SMA-1	03-010(a)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.42	06-001(a)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.43	22-014(a)	Twomile Canyon
			22-015(a)	
	Twomile Canyon	2M-SMA-1.44	06-001(b)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.45	06-006	Twomile Canyon
	Twomile Canyon	2M-SMA-1.5	22-014(b)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.65	40-005	Twomile Canyon
	Twomile Canyon	2M-SMA-1.67	06-003(h)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.7	03-055(a)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.8	03-001(k)	Twomile Canyon
	Twomile Canyon	2M-SMA-1.9	03-003(a)	Twomile Canyon
	Twomile Canyon	2M-SMA-2	03-050(d)	Twomile Canyon
			03-054(b)	
	Twomile Canyon	2M-SMA-2.2	03-003(k)	Twomile Canyon

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Pajarito	Twomile Canyon	2M-SMA-2.5	40-001(c)	Twomile Canyon
	Twomile Canyon	2M-SMA-3	07-001(a)	Twomile Canyon
			07-001(b)	
			07-001(c)	
			07-001(d)	
Pajarito	Threemile Canyon	3M-SMA-0.2	15-010(b)	Threemile Canyon
	Threemile Canyon	3M-SMA-0.4	15-006(b)	Threemile Canyon
	Threemile Canyon	3M-SMA-0.5	15-006(c)	Threemile Canyon
			15-009(c)	
	Threemile Canyon	3M-SMA-0.6	15-008(b)	Threemile Canyon
	Threemile Canyon	3M-SMA-2.6	36-008	Threemile Canyon
			C-36-003	
	Threemile Canyon	3M-SMA-4	18-002(b)	Threemile Canyon
			18-003(c)	
			18-010(f)	
Pajarito	Pajarito Canyon	PJ-SMA-1.05	09-013	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-2	09-009	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-3.05	09-004(o)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-4.05	09-004(g)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-5	22-015(c)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-5.1	22-016	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-6	40-010	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-7	40-006(c)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-8	40-006(b)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-9	40-009	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-10	40-006(a)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-11	40-003(a)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-11.1	40-003(b)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-13	18-002(a)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-13.7	18-010(b)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-14	54-004	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-14.2	18-012(b)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-14.3	18-003(e)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-14.4	18-010(d)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-14.6	18-010(e)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-14.8	18-012(a)	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-16	27-002	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-17	54-018	Pajarito Canyon
	Pajarito Canyon	PJ-SMA-18	54-014(d)	Pajarito Canyon
			54-017	

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Pajarito	Pajarito Canyon	PJ-SMA-19	54-013(b)	Pajarito Canyon
			54-017	
			54-020	
	Pajarito Canyon	PJ-SMA-20	54-017	Pajarito Canyon
	Pajarito Canyon	STRM-SMA-1.05	08-009(f)	Starmer's Gulch - tributary to Pajarito Canyon
	Pajarito Canyon	STRM-SMA-1.5	08-009(d)	Starmer's Gulch - tributary to Pajarito Canyon
	Pajarito Canyon	STRM-SMA-4.2	09-008(b)	Starmer's Gulch - tributary to Pajarito Canyon
	Pajarito Canyon	STRM-SMA-5.05	09-013	Starmer's Gulch - tributary to Pajarito Canyon
Water/ Cañon de Valle	Cañon de Valle	CDV-SMA-1.2	16-017(b)-99	Cañon de Valle
			16-029(k)	
	Cañon de Valle	CDV-SMA-1.3	16-017(a)-99	Cañon de Valle
			16-026(m)	
	Cañon de Valle	CDV-SMA-1.4	16-020	Cañon de Valle
			16-026(l)	
			16-028(c)	
			16-030(c)	
	Cañon de Valle	CDV-SMA-1.45	16-026(i)	Cañon de Valle
	Cañon de Valle	CDV-SMA-1.7	16-019	Cañon de Valle
	Cañon de Valle	CDV-SMA-2	16-021(c)	Cañon de Valle
	Cañon de Valle	CDV-SMA-2.3	13-001	Cañon de Valle
			13-002	
			16-003(n)	
			16-003(o)	
			16-029(h)	
			16-031(h)	
	Cañon de Valle	CDV-SMA-2.41	16-018	Cañon de Valle
	Cañon de Valle	CDV-SMA-2.42	16-010(b)	Cañon de Valle
	Cañon de Valle	CDV-SMA-2.5	16-010(c)	Cañon de Valle
			16-010(d)	
			16-028(a)	
	Cañon de Valle	CDV-SMA-2.51	16-010(i)	Cañon de Valle
	Cañon de Valle	CDV-SMA-3	14-009	Cañon de Valle
	Cañon de Valle	CDV-SMA-4	14-010	Cañon de Valle
	Cañon de Valle	CDV-SMA-6.01	14-001(g)	Cañon de Valle
			14-006	
	Cañon de Valle	CDV-SMA-6.02	14-002(d)	Cañon de Valle
			14-002(e)	

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Water/ Cañon de Valle	Cañon de Valle	CDV-SMA-7	15-008(d)	Cañon de Valle
	Cañon de Valle	CDV-SMA-8	15-011(c)	Cañon de Valle
	Cañon de Valle	CDV-SMA-8.5	15-014(a)	Cañon de Valle
	Cañon de Valle	CDV-SMA-9.05	15-007(b)	Cañon de Valle
Water/ Cañon de Valle	Fence Canyon	F-SMA-2	36-004(c)	Fence Canyon
Water/ Cañon de Valle	Potrillo Canyon	PT-SMA-0.5	15-009(e)	Potrillo Canyon
			C-15-004	
	Potrillo Canyon	PT-SMA-1	15-004(f)	Potrillo Canyon
			15-008(a)	
	Potrillo Canyon	PT-SMA-1.7	15-006(a)	Potrillo Canyon
	Potrillo Canyon	PT-SMA-2	15-008(f)	Potrillo Canyon
			36-003(b)	
			36-004(e)	
	Potrillo Canyon	PT-SMA-2.01	C-36-001	Potrillo Canyon
			C-36-006(e)	
	Potrillo Canyon	PT-SMA-3	36-004(a)	Potrillo Canyon
			36-006	
	Potrillo Canyon	PT-SMA-4.2	36-004(d)	Potrillo Canyon
Water/ Cañon de Valle	Water Canyon	W-SMA-1	16-017(j)-99	Water Canyon
			16-026(c2)	
			16-026(v)	
	Water Canyon	W-SMA-1.5	16-026(b2)	Water Canyon
			16-028(d)	
	Water Canyon	W-SMA-2.05	16-028(e)	Water Canyon
	Water Canyon	W-SMA-3.5	16-026(y)	Water Canyon
	Water Canyon	W-SMA-4.1	16-003(a)	Water Canyon
	Water Canyon	W-SMA-5	16-001(e)	S-Site Canyon - tributary to Water Canyon
			16-003(f)	
			16-026(b)	
			16-026(c)	
			16-026(d)	
			16-026(e)	
	Water Canyon	W-SMA-6	11-001(c)	Water Canyon
	Water Canyon	W-SMA-7	16-026(h2)	Water Canyon
	Water Canyon	W-SMA-7.8	16-031(a)	Water Canyon
	Water Canyon	W-SMA-7.9	16-006(c)	Water Canyon
	Water Canyon	W-SMA-8	16-016(g)	Water Canyon
			16-028(b)	

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Water/ Cañon de Valle	Water Canyon	W-SMA-8.7	13-001	Water Canyon
			13-002	
			16-004(a)	
			16-026(j2)	
			16-029(h)	
			16-035	
	Water Canyon	W-SMA-8.71	16-004(c)	Water Canyon
	Water Canyon	W-SMA-9.05	16-030(g)	Water Canyon
	Water Canyon	W-SMA-9.5	11-012(c)	S-Site Canyon - tributary to Water Canyon
	Water Canyon	W-SMA-9.7	11-011(a)	S-Site Canyon - tributary to Water Canyon
			11-011(b)	
	Water Canyon	W-SMA-9.8	11-005(c)	S-Site Canyon - tributary to Water Canyon
	Water Canyon	W-SMA-9.9	11-006(b)	S-Site Canyon - tributary to Water Canyon
	Water Canyon	W-SMA-10	11-002	S-Site Canyon - tributary to Water Canyon
			11-003(b)	
			11-005(a)	
			11-005(b)	
			11-006(c)	
			11-006(d)	
			11-011(d)	
	Water Canyon	W-SMA-11.7	49-008(c)	Water Canyon
	Water Canyon	W-SMA-12.05	49-001(g)	Water Canyon
	Water Canyon	W-SMA-14.1	15-004(h)	Water Canyon
			15-014(l)	
	Water Canyon	W-SMA-15.1	49-005(a)	Water Canyon
Ancho	Ancho Canyon	A-SMA-1.1	39-004(a)	North Ancho Canyon
			39-004(d)	
	Ancho Canyon	A-SMA-2	39-004(b)	North Ancho Canyon
			39-004(e)	
	Ancho Canyon	A-SMA-2.5	39-010	North Ancho Canyon
	Ancho Canyon	A-SMA-2.7	39-002(c)	North Ancho Canyon
			39-008	
	Ancho Canyon	A-SMA-2.8	39-001(b)	North Ancho Canyon
	Ancho Canyon	A-SMA-3	39-002(b)	North Ancho Canyon
			39-004(c)	
	Ancho Canyon	A-SMA-3.5	39-006(a)	South Ancho Canyon

APPENDIX A
SITE MONITORING AREA AND SITE INFORMATION

Watershed	Canyon	SMA ID	Site ID	Receiving Water
Ancho	Ancho Canyon	A-SMA-4	33-010(d)	South Ancho Canyon
	Ancho Canyon	A-SMA-6	33-004(k)	South Ancho Canyon
			33-007(a)	
			33-010(a)	
Chaquehui	Chaquehui Canyon	CHQ-SMA-0.5	33-004(g)	Chaquehui Canyon
			33-007(c)	
			33-009	
	Chaquehui Canyon	CHQ-SMA-1.01	33-002(d)	Chaquehui Canyon
	Chaquehui Canyon	CHQ-SMA-1.02	33-004(h)	Chaquehui Canyon
			33-008(c)	
			33-011(d)	
			33-015	
	Chaquehui Canyon	CHQ-SMA-1.03	33-008(c)	Chaquehui Canyon
			33-012(a)	
			33-017	
			C-33-001	
			C-33-003	
	Chaquehui Canyon	CHQ-SMA-2	33-004(d)	Chaquehui Canyon
			33-007(c)	
			C-33-003	
	Chaquehui Canyon	CHQ-SMA-3.05	33-010(f)	Chaquehui Canyon
	Chaquehui Canyon	CHQ-SMA-4	33-011(e)	Chaquehui Canyon
	Chaquehui Canyon	CHQ-SMA-4.1	33-016	Chaquehui Canyon
	Chaquehui Canyon	CHQ-SMA-4.5	33-011(b)	Chaquehui Canyon
	Chaquehui Canyon	CHQ-SMA-5.05	33-007(b)	Chaquehui Canyon
	Chaquehui Canyon	CHQ-SMA-6	33-004(j)	Chaquehui Canyon
			33-006(a)	
			33-007(b)	
			33-010(c)	
			33-010(g)	
			33-010(h)	
			33-014	
	Chaquehui Canyon	CHQ-SMA-7.1	33-010(g)	Chaquehui Canyon

Table A-1
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Latitude (decimal degrees)	Longitude (decimal degrees)
Los Alamos/Pueblo	Rendija Canyon	R-SMA-0.5	35.907400	-106.311400
		R-SMA-1	35.907483	-106.299767
		R-SMA-1.95	35.910000	-106.274583
		R-SMA-2.05	35.915667	-106.283600
		R-SMA-2.3	35.914167	-106.274800
		R-SMA-2.5	35.910767	-106.267550
Los Alamos/Pueblo	Bayo Canyon	B-SMA-0.5	35.886967	-106.243883
		B-SMA-1	35.900217	-106.296217
Los Alamos/Pueblo	Pueblo Canyon	ACID-SMA-1.05	35.883950	-106.310633
		ACID-SMA-2	35.885917	-106.307217
		ACID-SMA-2.01	35.884483	-106.306550
		ACID-SMA-2.1	35.888800	-106.303967
		P-SMA-0.3	35.882850	-106.239500
		P-SMA-1	35.882583	-106.266183
		P-SMA-2	35.883867	-106.274900
		P-SMA-2.15	35.885283	-106.279517
		P-SMA-2.2	35.883800	-106.285050
		P-SMA-3.05	35.889933	-106.308800
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-0.85	35.878550	-106.323450
		LA-SMA-0.9	35.879700	-106.321850
		LA-SMA-1	35.880233	-106.321700
		LA-SMA-1.1	35.880767	-106.321067
		LA-SMA-1.25	35.880533	-106.320433
		LA-SMA-2.1	35.880350	-106.309417
		LA-SMA-2.3	35.879183	-106.308950
		LA-SMA-3.1	35.879483	-106.306700
		LA-SMA-3.9	35.878800	-106.305883
		LA-SMA-4.1	35.878483	-106.305250
		LA-SMA-4.2	35.878417	-106.304800
		LA-SMA-5.01	35.878200	-106.303050
		LA-SMA-5.02	35.878417	-106.302867
		LA-SMA-5.2	35.877100	-106.301783
		LA-SMA-5.31	35.876650	-106.296383
		LA-SMA-5.33	35.877883	-106.296017
		LA-SMA-5.35	35.876617	-106.296933
		LA-SMA-5.361	35.877683	-106.294950
		LA-SMA-5.362	35.877733	-106.295183
		LA-SMA-5.51	35.876350	-106.290250
		LA-SMA-5.52	35.876367	-106.290000
		LA-SMA-5.53	35.875983	-106.289850
		LA-SMA-5.54	35.876183	-106.289533

Table A-1
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Latitude (decimal degrees)	Longitude (decimal degrees)
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-5.91	35.877067	-106.282067
		LA-SMA-5.92	35.876717	-106.281617
		LA-SMA-6.25	35.875133	-106.279300
		LA-SMA-6.27	35.874967	-106.278767
		LA-SMA-6.3	35.874967	-106.278517
		LA-SMA-6.31	35.874767	-106.277950
		LA-SMA-6.32	35.875700	-106.276883
		LA-SMA-6.34	35.874517	-106.276533
		LA-SMA-6.36	35.874450	-106.275217
		LA-SMA-6.38	35.873917	-106.273800
		LA-SMA-6.395	35.873700	-106.273267
		LA-SMA-6.5	35.873950	-106.271017
		LA-SMA-9	35.873500	-106.254050
		LA-SMA-10.11	35.867017	-106.251317
		LA-SMA-10.12	35.866667	-106.250867
Los Alamos/Pueblo	DP Canyon	DP-SMA-0.3	35.880017	-106.288750
		DP-SMA-0.4	35.878783	-106.278800
		DP-SMA-0.6	35.877833	-106.277533
		DP-SMA-1	35.877817	-106.273883
		DP-SMA-2	35.877400	-106.272383
		DP-SMA-2.35	35.876650	-106.271700
		DP-SMA-3	35.876033	-106.270150
		DP-SMA-4	35.875333	-106.267283
Sandia	Sandia Canyon	S-SMA-0.25	35.876233	-106.322300
		S-SMA-1.1	35.875683	-106.318067
		S-SMA-2	35.875167	-106.318500
		S-SMA-2.01	35.872950	-106.317583
		S-SMA-2.8	35.874933	-106.316783
		S-SMA-3.51	35.873517	-106.316150
		S-SMA-3.52	35.873850	-106.316417
		S-SMA-3.53	35.875300	-106.315967
		S-SMA-3.6	35.873483	-106.312867
		S-SMA-3.7	35.868283	-106.274450
		S-SMA-3.71	35.869083	-106.273950
		S-SMA-3.72	35.868050	-106.274067
		S-SMA-3.95	35.865367	-106.263850
		S-SMA-4.1	35.867500	-106.262067
		S-SMA-4.5	35.863983	-106.260217
		S-SMA-5	35.863700	-106.257717
		S-SMA-5.2	35.864067	-106.257300
		S-SMA-5.5	35.863183	-106.254850

Table A-1
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Latitude (decimal degrees)	Longitude (decimal degrees)
Sandia	Sandia Canyon	S-SMA-6	35.863550	-106.245050
Mortandad	Cañada del Buey	CDB-SMA-0.15	35.859817	-106.291983
		CDB-SMA-0.25	35.855617	-106.281350
		CDB-SMA-0.55	35.855483	-106.280833
		CDB-SMA-1	35.852933	-106.279700
		CDB-SMA-1.15	35.855333	-106.280183
		CDB-SMA-1.35	35.855117	-106.279450
		CDB-SMA-1.54	35.855183	-106.279167
		CDB-SMA-1.55	35.854333	-106.278633
		CDB-SMA-1.65	35.853567	-106.278500
		CDB-SMA-4	35.832883	-106.239450
Mortandad	Mortandad Canyon	M-SMA-1	35.870267	-106.319283
		M-SMA-1.2	35.869917	-106.316483
		M-SMA-1.21	35.870683	-106.317217
		M-SMA-1.22	35.870633	-106.318067
		M-SMA-3	35.866883	-106.306567
		M-SMA-3.1	35.866933	-106.306033
		M-SMA-3.5	35.866933	-106.304717
		M-SMA-4	35.865500	-106.304867
		M-SMA-5	35.864767	-106.300767
		M-SMA-6	35.864617	-106.299200
		M-SMA-7	35.864317	-106.298750
		M-SMA-7.9	35.864983	-106.298317
		M-SMA-9.1	35.864000	-106.295000
		M-SMA-10	35.864517	-106.294250
		M-SMA-10.01	35.863967	-106.293917
		M-SMA-10.3	35.864650	-106.293167
		M-SMA-11.1	35.863950	-106.290633
		M-SMA-12	35.863550	-106.289250
		M-SMA-12.5	35.857900	-106.276783
		M-SMA-12.6	35.857717	-106.274500
		M-SMA-12.7	35.859233	-106.270667
		M-SMA-12.8	35.859183	-106.270233
		M-SMA-12.9	35.858767	-106.269267
		M-SMA-12.92	35.860867	-106.268367
		M-SMA-13	35.857067	-106.265383
Mortandad	Ten-Site Canyon	Pratt-SMA-1.05	35.862167	-106.287300
		T-SMA-1	35.861483	-106.297100
		T-SMA-2.5	35.861883	-106.294583
		T-SMA-2.85	35.862067	-106.293700
		T-SMA-3	35.861817	-106.293200

Watershed	Canyon	SMA Number	Latitude (decimal degrees)	Longitude (decimal degrees)
Mortandad	Ten-Site Canyon	T-SMA-4	35.861683	-106.292317
		T-SMA-5	35.861517	-106.291600
		T-SMA-6.8	35.861650	-106.283817
		T-SMA-7	35.861183	-106.282917
		T-SMA-7.1	35.860950	-106.282567
Pajarito	Twomile Canyon	2M-SMA-1	35.873050	-106.330833
		2M-SMA-1.42	35.864817	-106.334333
		2M-SMA-1.43	35.861333	-106.333900
		2M-SMA-1.44	35.865100	-106.332983
		2M-SMA-1.45	35.864333	-106.332983
		2M-SMA-1.5	35.861067	-106.333283
		2M-SMA-1.65	35.860350	-106.329200
		2M-SMA-1.67	35.863183	-106.326333
		2M-SMA-1.7	35.868217	-106.324917
		2M-SMA-1.8	35.868250	-106.324300
		2M-SMA-1.9	35.872150	-106.325933
		2M-SMA-2	35.868633	-106.322567
		2M-SMA-2.2	35.868783	-106.321617
		2M-SMA-3	35.860017	-106.312717
		2M-SMA-2.5	35.857300	-106.318550
Pajarito	Threemile Canyon	3M-SMA-0.2	35.848467	-106.309350
		3M-SMA-0.4	35.843383	-106.295017
		3M-SMA-0.5	35.843217	-106.290217
		3M-SMA-0.6	35.845133	-106.290650
		3M-SMA-2.6	35.838833	-106.273333
		3M-SMA-4	35.839183	-106.269367
Pajarito	Pajarito Canyon	PJ-SMA-1.05	35.862417	-106.342017
		PJ-SMA-2	35.857233	-106.341250
		PJ-SMA-3.05	35.856300	-106.339200
		PJ-SMA-4.05	35.853700	-106.336150
		PJ-SMA-5	35.859633	-106.334917
		PJ-SMA-5.1	35.859833	-106.334117
		PJ-SMA-6	35.857300	-106.329350
		PJ-SMA-7	35.856683	-106.321383
		PJ-SMA-8	35.856767	-106.320633
		PJ-SMA-9	35.856717	-106.319517
		PJ-SMA-10	35.856450	-106.316017
		PJ-SMA-11	35.856000	-106.311233
		PJ-SMA-11.1	35.856050	-106.311100
		PJ-SMA-13	35.841883	-106.268467
		PJ-SMA-13.7	35.839967	-106.266417

Table A-1
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Latitude (decimal degrees)	Longitude (decimal degrees)
Pajarito	Pajarito Canyon	PJ-SMA-14	35.843467	-106.264167
		PJ-SMA-14.2	35.839667	-106.265533
		PJ-SMA-14.3	35.839383	-106.265033
		PJ-SMA-14.4	35.839717	-106.265017
		PJ-SMA-14.6	35.839533	-106.264467
		PJ-SMA-14.8	35.838317	-106.264267
		PJ-SMA-16	35.830567	-106.248167
		PJ-SMA-17	35.830150	-106.242667
		PJ-SMA-18	35.828917	-106.237917
		PJ-SMA-19	35.829233	-106.236800
		PJ-SMA-20	35.829750	-106.234650
		STRM-SMA-1.05	35.859683	-106.349617
		STRM-SMA-1.5	35.860883	-106.348933
		STRM-SMA-4.2	35.858767	-106.345500
		STRM-SMA-5.05	35.859500	-106.339800
Water/Cañon de Valle	Cañon de Valle	CDV-SMA-1.2	35.848350	-106.347800
		CDV-SMA-1.3	35.848233	-106.347150
		CDV-SMA-1.4	35.850083	-106.347183
		CDV-SMA-1.45	35.849850	-106.346933
		CDV-SMA-1.7	35.850933	-106.342250
		CDV-SMA-2	35.849800	-106.340283
		CDV-SMA-2.3	35.846100	-106.333067
		CDV-SMA-2.41	35.849967	-106.332733
		CDV-SMA-2.42	35.849000	-106.332617
		CDV-SMA-2.5	35.846517	-106.330783
		CDV-SMA-2.51	35.846967	-106.329917
		CDV-SMA-3	35.847767	-106.320667
		CDV-SMA-4	35.848050	-106.319633
		CDV-SMA-6.01	35.847800	-106.317117
		CDV-SMA-6.02	35.847500	-106.316450
		CDV-SMA-7	35.845300	-106.311733
		CDV-SMA-8	35.844267	-106.310150
		CDV-SMA-8.5	35.841117	-106.310933
		CDV-SMA-9.05	35.836117	-106.305900
Water/Cañon de Valle	Fence Canyon	F-SMA-2	35.827333	-106.276883
Water/Cañon de Valle	Potrillo Canyon	PT-SMA-0.5	35.839183	-106.299483
		PT-SMA-1	35.839083	-106.297467
		PT-SMA-1.7	35.833550	-106.293567
		PT-SMA-2	35.836517	-106.292350
		PT-SMA-2.01	35.836300	-106.291967
		PT-SMA-3	35.829733	-106.259333
		PT-SMA-4.2	35.824283	-106.248683

Watershed	Canyon	SMA Number	Latitude (decimal degrees)	Longitude (decimal degrees)
Water/Cañon de Valle	Water Canyon	W-SMA-1	35.841483	-106.351167
		W-SMA-1.5	35.841917	-106.355083
		W-SMA-2.05	35.839517	-106.353000
		W-SMA-3.5	35.837283	-106.344317
		W-SMA-4.1	35.837050	-106.340517
		W-SMA-5	35.841617	-106.338800
		W-SMA-6	35.836333	-106.338433
		W-SMA-7	35.838550	-106.337450
		W-SMA-7.8	35.836317	-106.337900
		W-SMA-7.9	35.835950	-106.337700
		W-SMA-8	35.836033	-106.337300
		W-SMA-8.7	35.843583	-106.333583
		W-SMA-8.71	35.843767	-106.334833
		W-SMA-9.1	35.835017	-106.333100
		W-SMA-9.5	35.838750	-106.327633
		W-SMA-9.7	35.839050	-106.325950
		W-SMA-9.8	35.838867	-106.324883
		W-SMA-9.9	35.838983	-106.323833
		W-SMA-10	35.837933	-106.323333
		W-SMA-11.7	35.824450	-106.300033
		W-SMA-12.05	35.825450	-106.298933
		W-SMA-14.1	35.832517	-106.296600
		W-SMA-15.1	35.824433	-106.295100
Ancho	Ancho Canyon	A-SMA-1.1	35.808933	-106.267083
		A-SMA-2	35.808683	-106.267767
		A-SMA-2.5	35.806133	-106.263683
		A-SMA-2.7	35.801950	-106.261600
		A-SMA-2.8	35.802117	-106.261267
		A-SMA-3	35.800083	-106.263750
		A-SMA-3.5	35.785950	-106.250600
		A-SMA-4	35.773200	-106.230433
		A-SMA-6	35.771500	-106.229700
Chaquehui	Chaquehui Canyon	CHQ-SMA-0.5	35.783883	-106.259167
		CHQ-SMA-1.01	35.782500	-106.254717
		CHQ-SMA-1.02	35.782767	-106.254817
		CHQ-SMA-1.03	35.782950	-106.254633
		CHQ-SMA-2	35.781550	-106.258100
		CHQ-SMA-3.05	35.781783	-106.254133
		CHQ-SMA-4	35.780483	-106.255817
		CHQ-SMA-4.1	35.778833	-106.256033
		CHQ-SMA-4.5	35.776250	-106.246700
		CHQ-SMA-5.05	35.771550	-106.253567
		CHQ-SMA-6	35.770850	-106.252200
		CHQ-SMA-7.1	35.771500	-106.250417

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
R-SMA-0.5	C-00-020	Alpha & Ra	Cyanide	All		HE	
R-SMA-1	C-00-041	Alpha & Ra	Cyanide	All			
R-SMA-1.95	00-015	Alpha & Ra	Cyanide	All		HE	
R-SMA-2.05	00-011(c)	Alpha & Ra	Cyanide	All		HE	
R-SMA-2.3	00-011(e)	Alpha & Ra	Cyanide	All		HE	
R-SMA-2.5	00-011(a)	Alpha & Ra	Cyanide	All		HE	
B-SMA-0.5	10-001(a)	Alpha & Ra	Cyanide	All			
	10-001(b)	Alpha & Ra	Cyanide	All			
	10-001(c)	Alpha & Ra	Cyanide	All			
	10-001(d)	Alpha & Ra	Cyanide	All			
	10-004(a)	Alpha & Ra	Cyanide	All			
	10-004(b)	Alpha & Ra	Cyanide	All			
	10-008	Alpha & Ra	Cyanide	All			
	10-009	Alpha & Ra	Cyanide	All			
B-SMA-1	00-011(d)	Alpha & Ra	Cyanide	All		HE	
ACID-SMA-1.05	00-030(g)	Alpha & Ra	Cyanide	All	PCBs		PEST
ACID-SMA-2	01-002(b)-00	Alpha & Ra	Cyanide	All	PCBs		
	45-001	Alpha & Ra	Cyanide	All	PCBs		
	45-002	Alpha & Ra	Cyanide	All	PCBs		
	45-004	Alpha & Ra	Cyanide	All	PCBs		
ACID-SMA-2.01	00-030(f)	Alpha & Ra	Cyanide	All	PCBs		
ACID-SMA-2.1	01-002(b)-00	Alpha & Ra	Cyanide	All	PCBs		
P-SMA-0.3	00-018(b)	Alpha & Ra	Cyanide	All			
P-SMA-1	73-001(a)	Alpha & Ra	Cyanide	All			
	73-004(d)	Alpha & Ra	Cyanide	All			
P-SMA-2	73-002	Alpha & Ra	Cyanide	All			Dioxin
	73-006	Alpha & Ra	Cyanide	All			Dioxin
P-SMA-2.15	31-001	Alpha & Ra	Cyanide	All	PCBs		
P-SMA-2.2	00-019	Alpha & Ra	Cyanide	All	PCBs		
P-SMA-3.05	00-018(a)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-0.85	03-055(c)	Alpha & Ra	Cyanide	All			
LA-SMA-0.9	00-017	Alpha & Ra	Cyanide	All	PCBs		
	C-00-044	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-1	00-017	Alpha & Ra	Cyanide	All	PCBs		
	C-00-044	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-1.1	43-001(b2)	Alpha & Ra	Cyanide	All			
LA-SMA-1.25	C-43-001	Alpha & Ra	Cyanide	All			
LA-SMA-2.1	01-001(f)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-2.3	01-001(b)	Alpha & Ra	Cyanide	All			

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
LA-SMA-3.1	01-001(e)	Alpha & Ra	Cyanide	All	PCBs		
	01-003(a)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-3.9	01-001(g)	Alpha & Ra	Cyanide	All			
	01-006(a)	Alpha & Ra	Cyanide	All			
LA-SMA-4.1	01-003(b)	Alpha & Ra	Cyanide	All	PCBs		
	01-006(b)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-4.2	01-001(c)	Alpha & Ra	Cyanide	All	PCBs		
	01-006(c)	Alpha & Ra	Cyanide	All	PCBs		
	01-006(d)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.01	01-001(d)	Alpha & Ra	Cyanide	All	PCBs		
	01-006(h)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.02	01-003(e)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.2	01-003(d)	Alpha & Ra	Cyanide	All			
LA-SMA-5.31	41-002(c)	Alpha & Ra	Cyanide	All			
LA-SMA-5.33	32-004	Alpha & Ra	Cyanide	All			
LA-SMA-5.35	C-41-004	Alpha & Ra	Cyanide	All			
LA-SMA-5.361	32-002(b)	Alpha & Ra	Cyanide	All			
LA-SMA-5.362	32-003	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.51	02-003(a)	Alpha & Ra	Cyanide	All	PCBs		
	02-003(e)	Alpha & Ra	Cyanide	All	PCBs		
	02-004(a)	Alpha & Ra	Cyanide	All	PCBs		
	02-005	Alpha & Ra	Cyanide	All	PCBs		
	02-006(b)	Alpha & Ra	Cyanide	All	PCBs		
	02-006(c)	Alpha & Ra	Cyanide	All	PCBs		
	02-006(d)	Alpha & Ra	Cyanide	All	PCBs		
	02-006(e)	Alpha & Ra	Cyanide	All	PCBs		
	02-008(a)	Alpha & Ra	Cyanide	All	PCBs		
	02-009(b)	Alpha & Ra	Cyanide	All	PCBs		
	02-011(a)	Alpha & Ra	Cyanide	All	PCBs		
	02-011(b)	Alpha & Ra	Cyanide	All	PCBs		
	02-011(c)	Alpha & Ra	Cyanide	All	PCBs		
	02-011(d)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.52	02-003(b)	Alpha & Ra	Cyanide	All	PCBs		
	02-007	Alpha & Ra	Cyanide	All	PCBs		
	02-008(c)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.53	02-009(a)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.54	02-009(c)	Alpha & Ra	Cyanide	All	PCBs		
LA-SMA-5.91	21-009	Alpha & Ra	Cyanide	All			
	21-021	Alpha & Ra	Cyanide	All			
	21-023(c)	Alpha & Ra	Cyanide	All			
	21-027(d)	Alpha & Ra	Cyanide	All			

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
LA-SMA-5.92	21-013(b)	Alpha & Ra	Cyanide	All			
	21-013(g)	Alpha & Ra	Cyanide	All			
	21-018(a)	Alpha & Ra	Cyanide	All			
	21-021	Alpha & Ra	Cyanide	All			
LA-SMA-6.25	21-021	Alpha & Ra	Cyanide	All			
	21-024(d)	Alpha & Ra	Cyanide	All			
	21-027(c)	Alpha & Ra	Cyanide	All			
LA-SMA-6.27	21-021	Alpha & Ra	Cyanide	All			
	21-027(c)	Alpha & Ra	Cyanide	All			
LA-SMA-6.3	21-006(b)	Alpha & Ra	Cyanide	All			SVC
LA-SMA-6.31	21-027(a)	Alpha & Ra	Cyanide	All			SVC
LA-SMA-6.32	21-021	Alpha & Ra	Cyanide	All			
LA-SMA-6.34	21-021	Alpha & Ra	Cyanide	All			
	21-022(h)	Alpha & Ra	Cyanide	All			
LA-SMA-6.36	21-021	Alpha & Ra	Cyanide	All			
	21-024(a)	Alpha & Ra	Cyanide	All			
LA-SMA-6.38	21-021	Alpha & Ra	Cyanide	All			
	21-024(c)	Alpha & Ra	Cyanide	All			
LA-SMA-6.395	21-021	Alpha & Ra	Cyanide	All			
	21-024(j)	Alpha & Ra	Cyanide	All			
LA-SMA-6.5	21-021	Alpha & Ra	Cyanide	All	PCBs		SVC
	21-024(i)	Alpha & Ra	Cyanide	All	PCBs		SVC
LA-SMA-9	26-001	Alpha & Ra	Cyanide	All			
	26-002(a)	Alpha & Ra	Cyanide	All			
	26-002(b)	Alpha & Ra	Cyanide	All			
	26-003	Alpha & Ra	Cyanide	All			
LA-SMA-10.11	53-002(a)	Alpha & Ra	Cyanide	All			
LA-SMA-10.12	53-008	Alpha & Ra	Cyanide	All			
DP-SMA-0.3	21-029	Alpha & Ra	Cyanide	All			
DP-SMA-0.4	21-021	Alpha & Ra	Cyanide	All			
DP-SMA-0.6	21-021	Alpha & Ra	Cyanide	All			
	21-024(l)	Alpha & Ra	Cyanide	All			
DP-SMA-1	21-011(k)	Alpha & Ra	Cyanide	All	PCBs		
	21-021	Alpha & Ra	Cyanide	All	PCBs		
DP-SMA-2	21-021	Alpha & Ra	Cyanide	All			
	21-024(h)	Alpha & Ra	Cyanide	All			
DP-SMA-2.35	21-021	Alpha & Ra	Cyanide	All			
	21-024(n)	Alpha & Ra	Cyanide	All			
DP-SMA-3	21-013(c)	Alpha & Ra	Cyanide	All			
	21-021	Alpha & Ra	Cyanide	All			

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
DP-SMA-4	21-021	Alpha & Ra	Cyanide	All			
S-SMA-0.25	03-013(a)	Alpha & Ra	Cyanide	All	PCBs		SVC
	03-052(f)	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-1.1	03-029	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-2	03-012(b)	Alpha & Ra	Cyanide	All	PCBs		
	03-045(b)	Alpha & Ra	Cyanide	All	PCBs		
	03-045(c)	Alpha & Ra	Cyanide	All	PCBs		
	03-056(c)	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-2.01	03-052(b)	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-2.8	03-014(c2)	Alpha & Ra	Cyanide	All	PCBs		SVC
S-SMA-3.51	03-009(i)	Alpha & Ra	Cyanide	All	PCBs		SVC
S-SMA-3.52	03-021	Alpha & Ra	Cyanide	All	PCBs		SVC
S-SMA-3.53	03-014(b2)	Alpha & Ra	Cyanide	All	PCBs		SVC
S-SMA-3.6	60-007(b)	Alpha & Ra	Cyanide	All	PCBs	HE	
S-SMA-3.7	53-012(e)	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-3.71	53-001(a)	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-3.72	53-001(b)	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-3.95	20-002(a)	Alpha & Ra	Cyanide	All		HE	SVC
S-SMA-4.1	53-014	Alpha & Ra	Cyanide	All	PCBs		
S-SMA-4.5	20-002(d)	Alpha & Ra	Cyanide	All		HE	
S-SMA-5	20-002(c)	Alpha & Ra	Cyanide	All	PCBs	HE	
S-SMA-5.2	20-003(c)	Alpha & Ra	Cyanide	All	PCBs	HE	SVC
S-SMA-5.5	20-005	Alpha & Ra	Cyanide	All			
S-SMA-6	72-001	Alpha & Ra	Cyanide	All	PCBs	HE	
CDB-SMA-0.15	04-003(a)	Alpha & Ra	Cyanide	All			
	04-004	Alpha & Ra	Cyanide	All			
CDB-SMA-0.25	46-004(c2)	Alpha & Ra	Cyanide	All	PCBs		SVC
CDB-SMA-0.55	46-004(e2)	Alpha & Ra	Cyanide	All	PCBs		SVC
	46-004(g)	Alpha & Ra	Cyanide	All	PCBs		SVC
	46-004(m)	Alpha & Ra	Cyanide	All	PCBs		SVC
	46-004(s)	Alpha & Ra	Cyanide	All	PCBs		SVC
	46-006(f)	Alpha & Ra	Cyanide	All	PCBs		SVC
CDB-SMA-1	46-003(c)	Alpha & Ra	Cyanide	All	PCBs		
	46-004(d2)	Alpha & Ra	Cyanide	All	PCBs		
	46-004(f)	Alpha & Ra	Cyanide	All	PCBs		
	46-004(t)	Alpha & Ra	Cyanide	All	PCBs		
	46-004(w)	Alpha & Ra	Cyanide	All	PCBs		
	46-008(g)	Alpha & Ra	Cyanide	All	PCBs		
	46-009(a)	Alpha & Ra	Cyanide	All	PCBs		
	C-46-001	Alpha & Ra	Cyanide	All	PCBs		

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
CDB-SMA-1.15	46-004(b)	Alpha & Ra	Cyanide	All	PCBs		
	46-004(y)	Alpha & Ra	Cyanide	All	PCBs		
	46-004(z)	Alpha & Ra	Cyanide	All	PCBs		
	46-006(d)	Alpha & Ra	Cyanide	All	PCBs		
CDB-SMA-1.35	46-004(a2)	Alpha & Ra	Cyanide	All	PCBs		PEST, SVC
	46-004(u)	Alpha & Ra	Cyanide	All	PCBs		PEST, SVC
	46-004(v)	Alpha & Ra	Cyanide	All	PCBs		PEST, SVC
	46-004(x)	Alpha & Ra	Cyanide	All	PCBs		PEST, SVC
	46-006(d)	Alpha & Ra	Cyanide	All	PCBs		PEST, SVC
	46-008(f)	Alpha & Ra	Cyanide	All	PCBs		PEST, SVC
CDB-SMA-1.54	46-004(h)	Alpha & Ra	Cyanide	All	PCBs		PEST
	46-004(q)	Alpha & Ra	Cyanide	All	PCBs		PEST
	46-006(d)	Alpha & Ra	Cyanide	All	PCBs		PEST
CDB-SMA-1.55	46-003(e)	Alpha & Ra	Cyanide	All			
CDB-SMA-1.65	46-003(b)	Alpha & Ra	Cyanide	All			
CDB-SMA-4	54-017	Alpha & Ra	Cyanide	All	PCBs		SVC
	54-018	Alpha & Ra	Cyanide	All	PCBs		SVC
	54-020	Alpha & Ra	Cyanide	All	PCBs		Dioxin, SVC
M-SMA-1	03-050(a)	Alpha & Ra	Cyanide	All	PCBs		
	03-054(e)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-1.2	03-049(a)	Alpha & Ra	Cyanide	All			
M-SMA-1.21	03-049(e)	Alpha & Ra	Cyanide	All			
M-SMA-1.22	03-045(h)	Alpha & Ra	Cyanide	All			
M-SMA-3	48-001	Alpha & Ra	Cyanide	All	PCBs		
	48-005	Alpha & Ra	Cyanide	All	PCBs		
	48-007(c)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-3.1	48-001	Alpha & Ra	Cyanide	All	PCBs		
	48-007(b)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-3.5	48-001	Alpha & Ra	Cyanide	All	PCBs		
	48-003	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-4	48-001	Alpha & Ra	Cyanide	All	PCBs		
	48-005	Alpha & Ra	Cyanide	All	PCBs		
	48-007(a)	Alpha & Ra	Cyanide	All	PCBs		
	48-007(d)	Alpha & Ra	Cyanide	All	PCBs		
	48-010	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-5	42-001(a)	Alpha & Ra	Cyanide	All	PCBs		
	42-001(b)	Alpha & Ra	Cyanide	All	PCBs		
	42-001(c)	Alpha & Ra	Cyanide	All	PCBs		
	42-002(a)	Alpha & Ra	Cyanide	All	PCBs		
	42-002(b)	Alpha & Ra	Cyanide	All	PCBs		

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
M-SMA-6	35-016(h)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-7	35-016(g)	Alpha & Ra	Cyanide	All			
M-SMA-7.9	50-006(d)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-9.1	35-016(f)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-10	35-008	Alpha & Ra	Cyanide	All			
	35-014(e)	Alpha & Ra	Cyanide	All			
M-SMA-10.01	35-016(e)	Alpha & Ra	Cyanide	All			
M-SMA-10.3	35-014(e2)	Alpha & Ra	Cyanide	All	PCBs		
	35-016(i)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-11.1	35-016(o)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-12	35-016(p)	Alpha & Ra	Cyanide	All	PCBs		
M-SMA-12.5	05-005(b)	Alpha & Ra	Cyanide	All		HE	SVC
	05-006(c)	Alpha & Ra	Cyanide	All		HE	SVC
M-SMA-12.6	05-004	Alpha & Ra	Cyanide	All		HE	SVC
M-SMA-12.7	05-002	Alpha & Ra	Cyanide	All		HE	SVC
	05-005(a)	Alpha & Ra	Cyanide	All		HE	SVC
	05-006(b)	Alpha & Ra	Cyanide	All		HE	SVC
	05-006(e)	Alpha & Ra	Cyanide	All		HE	SVC
M-SMA-12.8	05-001(a)	Alpha & Ra	Cyanide	All		HE	SVC
	05-002	Alpha & Ra	Cyanide	All		HE	SVC
M-SMA-12.9	05-001(b)	Alpha & Ra	Cyanide	All		HE	
	05-002	Alpha & Ra	Cyanide	All		HE	
M-SMA-12.92	00-001	Alpha & Ra	Cyanide	All			
M-SMA-13	05-001(c)	Alpha & Ra	Cyanide	All		HE	
Pratt-SMA-1.05	35-003(h)	Alpha & Ra	Cyanide	All	PCBs		
	35-003(p)	Alpha & Ra	Cyanide	All	PCBs		
	35-003(r)	Alpha & Ra	Cyanide	All	PCBs		
	35-004(h)	Alpha & Ra	Cyanide	All	PCBs		
	35-009(d)	Alpha & Ra	Cyanide	All	PCBs		
	35-016(k)	Alpha & Ra	Cyanide	All	PCBs		
	35-016(l)	Alpha & Ra	Cyanide	All	PCBs		
	35-016(m)	Alpha & Ra	Cyanide	All	PCBs		
T-SMA-1	50-006(a)	Alpha & Ra	Cyanide	All	PCBs		
	50-009	Alpha & Ra	Cyanide	All	PCBs		
T-SMA-2.5	35-014(g3)	Alpha & Ra	Cyanide	All			
T-SMA-2.85	35-014(g)	Alpha & Ra	Cyanide	All			
	35-016(n)	Alpha & Ra	Cyanide	All			
T-SMA-3	35-016(b)	Alpha & Ra	Cyanide	All			

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
T-SMA-4	35-004(a)	Alpha & Ra	Cyanide	All			
	35-009(a)	Alpha & Ra	Cyanide	All			
	35-016(c)	Alpha & Ra	Cyanide	All			
	35-016(d)	Alpha & Ra	Cyanide	All			
T-SMA-5	35-004(a)	Alpha & Ra	Cyanide	All			
	35-009(a)	Alpha & Ra	Cyanide	All			
	35-016(a)	Alpha & Ra	Cyanide	All			
	35-016(q)	Alpha & Ra	Cyanide	All			
T-SMA-6.8	35-010(e)	Alpha & Ra	Cyanide	All			
T-SMA-7	04-003(b)	Alpha & Ra	Cyanide	All			
T-SMA-7.1	04-001	Alpha & Ra	Cyanide	All			
	04-002	Alpha & Ra	Cyanide	All			
2M-SMA-1	03-010(a)	Alpha & Ra	Cyanide	All			
2M-SMA-1.42	06-001(a)	Alpha & Ra	Cyanide	All			
2M-SMA-1.43	22-014(a)	Alpha & Ra	Cyanide	All			
	22-015(a)	Alpha & Ra	Cyanide	All			
2M-SMA-1.44	06-001(b)	Alpha & Ra	Cyanide	All			
2M-SMA-1.45	06-006	Alpha & Ra	Cyanide	All			
2M-SMA-1.5	22-014(b)	Alpha & Ra	Cyanide	All		HE	SVC
2M-SMA-1.65	40-005	Alpha & Ra	Cyanide	All			
2M-SMA-1.67	06-003(h)	Alpha & Ra	Cyanide	All		HE	
2M-SMA-1.7	03-055(a)	Alpha & Ra	Cyanide	All			
2M-SMA-1.8	03-001(k)	Alpha & Ra	Cyanide	All			
2M-SMA-1.9	03-003(a)	Alpha & Ra	Cyanide	All			
2M-SMA-2	03-050(d)	Alpha & Ra	Cyanide	All	PCBs		
	03-054(b)	Alpha & Ra	Cyanide	All	PCBs		
2M-SMA-2.2	03-003(k)	Alpha & Ra	Cyanide	All	PCBs		
2M-SMA-2.5	40-001(c)	Alpha & Ra	Cyanide	All			
2M-SMA-3	07-001(a)	Alpha & Ra	Cyanide	All		HE	
	07-001(b)	Alpha & Ra	Cyanide	All		HE	
	07-001(c)	Alpha & Ra	Cyanide	All		HE	
	07-001(d)	Alpha & Ra	Cyanide	All		HE	
3M-SMA-0.2	15-010(b)	Alpha & Ra	Cyanide	All			
3M-SMA-0.4	15-006(b)	Alpha & Ra	Cyanide	All		HE	
3M-SMA-0.5	15-006(c)	Alpha & Ra	Cyanide	All		HE	
	15-009(c)	Alpha & Ra	Cyanide	All			
3M-SMA-0.6	15-008(b)	Alpha & Ra	Cyanide	All			
3M-SMA-2.6	36-008	Alpha & Ra	Cyanide	All		HE	SVC
	C-36-003	Alpha & Ra	Cyanide	All		HE	SVC

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
3M-SMA-4	18-002(b)	Alpha & Ra	Cyanide	All		HE	
	18-003(c)	Alpha & Ra	Cyanide	All			
	18-010(f)	Alpha & Ra	Cyanide	All			
PJ-SMA-1.05	09-013	Alpha & Ra	Cyanide	All	PCBs		
PJ-SMA-2	09-009	Alpha & Ra	Cyanide	All			
PJ-SMA-3.05	09-004(o)	Alpha & Ra	Cyanide	All			
PJ-SMA-4.05	09-004(g)	Alpha & Ra	Cyanide	All			
PJ-SMA-5	22-015(c)	Alpha & Ra	Cyanide	All			SVC
PJ-SMA-5.1	22-016	Alpha & Ra	Cyanide	All			
PJ-SMA-6	40-010	Alpha & Ra	Cyanide	All			
PJ-SMA-7	40-006(c)	Alpha & Ra	Cyanide	All		HE	
PJ-SMA-8	40-006(b)	Alpha & Ra	Cyanide	All		HE	
PJ-SMA-9	40-009	Alpha & Ra	Cyanide	All		HE	SVC
PJ-SMA-10	40-006(a)	Alpha & Ra	Cyanide	All		HE	SVC
PJ-SMA-11	40-003(a)	Alpha & Ra	Cyanide	All			
PJ-SMA-11.1	40-003(b)	Alpha & Ra	Cyanide	All			
PJ-SMA-13	18-002(a)	Alpha & Ra	Cyanide	All		HE	
PJ-SMA-13.7	18-010(b)	Alpha & Ra	Cyanide	All			
PJ-SMA-14	54-004	Alpha & Ra	Cyanide	All		HE	
PJ-SMA-14.2	18-012(b)	Alpha & Ra	Cyanide	All			
PJ-SMA-14.3	18-003(e)	Alpha & Ra	Cyanide	All			
PJ-SMA-14.4	18-010(d)	Alpha & Ra	Cyanide	All			
PJ-SMA-14.6	18-010(e)	Alpha & Ra	Cyanide	All			
PJ-SMA-14.8	18-012(a)	Alpha & Ra	Cyanide	All			
PJ-SMA-16	27-002	Alpha & Ra	Cyanide	All		HE	
PJ-SMA-17	54-018	Alpha & Ra	Cyanide	All	PCBs		
PJ-SMA-18	54-014(d)	Alpha & Ra	Cyanide	All	PCBs		
	54-017	Alpha & Ra	Cyanide	All	PCBs		
PJ-SMA-19	54-013(b)	Alpha & Ra	Cyanide	All	PCBs		
	54-017	Alpha & Ra	Cyanide	All	PCBs		
	54-020	Alpha & Ra	Cyanide	All	PCBs		
PJ-SMA-20	54-017	Alpha & Ra	Cyanide	All	PCBs		
STRM-SMA-1.05	08-009(f)	Alpha & Ra	Cyanide	All			
STRM-SMA-1.5	08-009(d)	Alpha & Ra	Cyanide	All			SVC
STRM-SMA-4.2	09-008(b)	Alpha & Ra	Cyanide	All			
STRM-SMA-5.05	09-013	Alpha & Ra	Cyanide	All	PCBs		
CDV-SMA-1.2	16-017(b)-99	Alpha & Ra	Cyanide	All		HE	
	16-029(k)	Alpha & Ra	Cyanide	All			
CDV-SMA-1.3	16-017(a)-99	Alpha & Ra	Cyanide	All		HE	
	16-026(m)	Alpha & Ra	Cyanide	All			

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
CDV-SMA-1.4	16-020	Alpha & Ra	Cyanide	All			
	16-026(l)	Alpha & Ra	Cyanide	All			
	16-028(c)	Alpha & Ra	Cyanide	All			
	16-030(c)	Alpha & Ra	Cyanide	All			
CDV-SMA-1.45	16-026(i)	Alpha & Ra	Cyanide	All			
CDV-SMA-1.7	16-019	Alpha & Ra	Cyanide	All		HE	
CDV-SMA-2	16-021(c)	Alpha & Ra	Cyanide	All			SVC
CDV-SMA-2.3	13-001	Alpha & Ra	Cyanide	All			
	13-002	Alpha & Ra	Cyanide	All			
	16-003(n)	Alpha & Ra	Cyanide	All			
	16-003(o)	Alpha & Ra	Cyanide	All			
	16-029(h)	Alpha & Ra	Cyanide	All			
	16-031(h)	Alpha & Ra	Cyanide	All			
CDV-SMA-2.41	16-018	Alpha & Ra	Cyanide	All			
CDV-SMA-2.42	16-010(b)	Alpha & Ra	Cyanide	All			
CDV-SMA-2.5	16-010(c)	Alpha & Ra	Cyanide	All		HE	SVC
	16-010(d)	Alpha & Ra	Cyanide	All		HE	SVC
	16-028(a)	Alpha & Ra	Cyanide	All		HE	SVC
CDV-SMA-2.51	16-010(i)	Alpha & Ra	Cyanide	All		HE	SVC
CDV-SMA-3	14-009	Alpha & Ra	Cyanide	All		HE	
CDV-SMA-4	14-010	Alpha & Ra	Cyanide	All		HE	
CDV-SMA-6.01	14-001(g)	Alpha & Ra	Cyanide	All		HE	
	14-006	Alpha & Ra	Cyanide	All		HE	
CDV-SMA-6.02	14-002(d)	Alpha & Ra	Cyanide	All		HE	
	14-002(e)	Alpha & Ra	Cyanide	All		HE	
CDV-SMA-7	15-008(d)	Alpha & Ra	Cyanide	All			
CDV-SMA-8	15-011(c)	Alpha & Ra	Cyanide	All			SVC
CDV-SMA-8.5	15-014(a)	Alpha & Ra	Cyanide	All			
CDV-SMA-9.05	15-007(b)	Alpha & Ra	Cyanide	All			SVC
F-SMA-2	36-004(c)	Alpha & Ra	Cyanide	All		HE	
PT-SMA-0.5	15-009(e)	Alpha & Ra	Cyanide	All	PCBs	HE	SVC
	C-15-004	Alpha & Ra	Cyanide	All	PCBs	HE	SVC
PT-SMA-1	15-004(f)	Alpha & Ra	Cyanide	All		HE	SVC
	15-008(a)	Alpha & Ra	Cyanide	All		HE	SVC
PT-SMA-1.7	15-006(a)	Alpha & Ra	Cyanide	All		HE	
PT-SMA-2	15-008(f)	Alpha & Ra	Cyanide	All		HE	SVC
	36-003(b)	Alpha & Ra	Cyanide	All		HE	SVC
	36-004(e)	Alpha & Ra	Cyanide	All		HE	SVC
PT-SMA-2.01	C-36-001	Alpha & Ra	Cyanide	All		HE	SVC
	C-36-006(e)	Alpha & Ra	Cyanide	All		HE	SVC

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
PT-SMA-3	36-004(a)	Alpha & Ra	Cyanide	All		HE	
	36-006	Alpha & Ra	Cyanide	All			
PT-SMA-4.2	36-004(d)	Alpha & Ra	Cyanide	All		HE	
W-SMA-1	16-017(j)-99	Alpha & Ra	Cyanide	All			
	16-026(c2)	Alpha & Ra	Cyanide	All			
	16-026(v)	Alpha & Ra	Cyanide	All			
W-SMA-1.5	16-026(b2)	Alpha & Ra	Cyanide	All			
	16-028(d)	Alpha & Ra	Cyanide	All			
W-SMA-2.05	16-028(e)	Alpha & Ra	Cyanide	All			
W-SMA-3.5	16-026(y)	Alpha & Ra	Cyanide	All			
W-SMA-4.1	16-003(a)	Alpha & Ra	Cyanide	All		HE	
W-SMA-5	16-001(e)	Alpha & Ra	Cyanide	All			SVC
	16-003(f)	Alpha & Ra	Cyanide	All			SVC
	16-026(b)	Alpha & Ra	Cyanide	All			SVC
	16-026(c)	Alpha & Ra	Cyanide	All			SVC
	16-026(d)	Alpha & Ra	Cyanide	All			SVC
	16-026(e)	Alpha & Ra	Cyanide	All			SVC
W-SMA-6	11-001(c)	Alpha & Ra	Cyanide	All		HE	
W-SMA-7	16-026(h2)	Alpha & Ra	Cyanide	All			
W-SMA-7.8	16-031(a)	Alpha & Ra	Cyanide	All			
W-SMA-7.9	16-006(c)	Alpha & Ra	Cyanide	All			SVC
W-SMA-8	16-016(g)	Alpha & Ra	Cyanide	All			SVC
	16-028(b)	Alpha & Ra	Cyanide	All			SVC
W-SMA-8.7	13-001	Alpha & Ra	Cyanide	All		HE	
	13-002	Alpha & Ra	Cyanide	All			
	16-004(a)	Alpha & Ra	Cyanide	All			
	16-026(j2)	Alpha & Ra	Cyanide	All			
	16-029(h)	Alpha & Ra	Cyanide	All			
	16-035	Alpha & Ra	Cyanide	All			
W-SMA-8.71	16-004(c)	Alpha & Ra	Cyanide	All			
W-SMA-9.05	16-030(g)	Alpha & Ra	Cyanide	All		HE	
W-SMA-9.5	11-012(c)	Alpha & Ra	Cyanide	All			
W-SMA-9.7	11-011(a)	Alpha & Ra	Cyanide	All			
	11-011(b)	Alpha & Ra	Cyanide	All			
W-SMA-9.8	11-005(c)	Alpha & Ra	Cyanide	All			
W-SMA-9.9	11-006(b)	Alpha & Ra	Cyanide	All			

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
W-SMA-10	11-002	Alpha & Ra	Cyanide	All			
	11-003(b)	Alpha & Ra	Cyanide	All			
	11-005(a)	Alpha & Ra	Cyanide	All			
	11-005(b)	Alpha & Ra	Cyanide	All			
	11-006(c)	Alpha & Ra	Cyanide	All			
	11-006(d)	Alpha & Ra	Cyanide	All			
	11-011(d)	Alpha & Ra	Cyanide	All			
W-SMA-11.7	49-008(c)	Alpha & Ra	Cyanide	All			
W-SMA-12.05	49-001(g)	Alpha & Ra	Cyanide	All		HE	
W-SMA-14.1	15-004(h)	Alpha & Ra	Cyanide	All		HE	
	15-014(l)	Alpha & Ra	Cyanide	All			
W-SMA-15.1	49-005(a)	Alpha & Ra	Cyanide	All			
A-SMA-1.1	39-004(a)	Alpha & Ra	Cyanide	All		HE	
	39-004(d)	Alpha & Ra	Cyanide	All		HE	
A-SMA-2	39-004(b)	Alpha & Ra	Cyanide	All		HE	
	39-004(e)	Alpha & Ra	Cyanide	All		HE	
A-SMA-2.5	39-010	Alpha & Ra	Cyanide	All			
A-SMA-2.7	39-002(c)	Alpha & Ra	Cyanide	All			
	39-008	Alpha & Ra	Cyanide	All		HE	
A-SMA-2.8	39-001(b)	Alpha & Ra	Cyanide	All			
A-SMA-3	39-002(b)	Alpha & Ra	Cyanide	All	PCBs		
	39-004(c)	Alpha & Ra	Cyanide	All		HE	
A-SMA-3.5	39-006(a)	Alpha & Ra	Cyanide	All	PCBs		
A-SMA-4	33-010(d)	Alpha & Ra	Cyanide	All		HE	
A-SMA-6	33-004(k)	Alpha & Ra	Cyanide	All			
	33-007(a)	Alpha & Ra	Cyanide	All		HE	
	33-010(a)	Alpha & Ra	Cyanide	All			
CHQ-SMA-0.5	33-004(g)	Alpha & Ra	Cyanide	All			
	33-007(c)	Alpha & Ra	Cyanide	All		HE	
	33-009	Alpha & Ra	Cyanide	All	PCBs		
CHQ-SMA-1.01	33-002(d)	Alpha & Ra	Cyanide	All	PCBs		
CHQ-SMA-1.02	33-004(h)	Alpha & Ra	Cyanide	All	PCBs		
	33-008(c)	Alpha & Ra	Cyanide	All	PCBs		
	33-011(d)	Alpha & Ra	Cyanide	All	PCBs		
	33-015	Alpha & Ra	Cyanide	All	PCBs		

APPENDIX B
SITE MONITORING REQUIREMENTS

SMA Number	Site Number	Radioactivity	Cyanide	Metals	PCBs	High Explosive	Others
CHQ-SMA-1.03	33-008(c)	Alpha & Ra	Cyanide	All	PCBs		
	33-012(a)	Alpha & Ra	Cyanide	All	PCBs		
	33-017	Alpha & Ra	Cyanide	All	PCBs		
	C-33-001	Alpha & Ra	Cyanide	All	PCBs		
	C-33-003	Alpha & Ra	Cyanide	All	PCBs		
CHQ-SMA-2	33-004(d)	Alpha & Ra	Cyanide	All	PCBs		
	33-007(c)	Alpha & Ra	Cyanide	All	PCBs		
	C-33-003	Alpha & Ra	Cyanide	All	PCBs		
CHQ-SMA-3.05	33-010(f)	Alpha & Ra	Cyanide	All	PCBs		PEST
CHQ-SMA-4	33-011(e)	Alpha & Ra	Cyanide	All	PCBs	HE	
CHQ-SMA-4.1	33-016	Alpha & Ra	Cyanide	All	PCBs	HE	
CHQ-SMA-4.5	33-011(b)	Alpha & Ra	Cyanide	All			
CHQ-SMA-5.05	33-007(b)	Alpha & Ra	Cyanide	All			
CHQ-SMA-6	33-004(j)	Alpha & Ra	Cyanide	All		HE	
	33-006(a)	Alpha & Ra	Cyanide	All		HE	
	33-007(b)	Alpha & Ra	Cyanide	All		HE	
	33-010(c)	Alpha & Ra	Cyanide	All		HE	
	33-010(g)	Alpha & Ra	Cyanide	All		HE	
	33-010(h)	Alpha & Ra	Cyanide	All		HE	
	33-014	Alpha & Ra	Cyanide	All		HE	
CHQ-SMA-7.1	33-010(g)	Alpha & Ra	Cyanide	All		HE	

APPENDIX C

The following Minimum Quantification Levels (MQL's) are to be used for reporting pollutant data for NPDES permit applications and/or compliance reporting.

POLLUTANTS	MQL µg/l	POLLUTANTS	MQL µg/l
METALS, RADIOACTIVITY, CYANIDE and CHLORINE			
Aluminum	2.5	Molybdenum	10
Antimony	60	Nickel	0.5
Arsenic	0.5	Selenium	5
Barium	100	Silver	0.5
Beryllium	0.5	Thalllium	0.5
Boron	100	Uranium	0.1
Cadmium	1	Vanadium	50
Chromium	10	Zinc	20
Cobalt	50	Cyanide	10
Copper	0.5	Cyanide, weak acid dissociable	10
Lead	0.5	Total Residual Chlorine	33
Mercury *1	0.0005		
	0.005		
DIOXIN			
2,3,7,8-TCDD	0.00001		
VOLATILE COMPOUNDS			
Acrolein	50	1,3-Dichloropropylene	10
Acrylonitrile	20	Ethylbenzene	10
Benzene	10	Methyl Bromide	50
Bromoform	10	Methylene Chloride	20
Carbon Tetrachloride	2	1,1,2,2-Tetrachloroethane	10
Chlorobenzene	10	Tetrachloroethylene	10
Clorodibromomethane	10	Toluene	10
Chloroform	50	1,2-trans-Dichloroethylene	10
Dichlorobromomethane	10	1,1,2-Trichloroethane	10
1,2-Dichloroethane	10	Trichloroethylene	10
1,1-Dichloroethylene	10	Vinyl Chloride	10
1,2-Dichloropropane	10		
ACID COMPOUNDS			
2-Chlorophenol	10	2,4-Dinitrophenol	50
2,4-Dichlorophenol	10	Pentachlorophenol	5
2,4-Dimethylphenol	10	Phenol	10
4,6-Dinitro-o-Cresol	50	2,4,6-Trichlorophenol	10

POLLUTANTS	MQL µg/l	POLLUTANTS	MQL µg/l
	BASE/NEUTRAL		
Acenaphthene	10	Dimethyl Phthalate	10
Anthracene	10	Di-n-Butyl Phthalate	10
Benzidine	50	2,4-Dinitrotoluene	10
Benzo(a)anthracene	5	1,2-Diphenylhydrazine	20
Benzo(a)pyrene	5	Fluoranthene	10
3,4-Benzofluoranthene	10	Fluorene	10
Benzo(k)fluoranthene	5	Hexachlorobenzene	5
Bis(2-chloroethyl)Ether	10	Hexachlorobutadiene	10
Bis(2-chloroisopropyl)Ether	10	Hexachlorocyclopentadiene	10
Bis(2-ethylhexyl)Phthalate	10	Hexachloroethane	20
Butyl Benzyl Phthalate	10	Indeno(1,2,3-cd)Pyrene	5
2-Chloronapthalene	10	Isophorone	10
Chrysene	5	Nitrobenzene	10
Dibenzo(a,h)anthracene	5	n-Nitrosodimethylamine	50
1,2-Dichlorobenzene	10	n-Nitrosodi-n-Propylamine	20
1,3-Dichlorobenzene	10	n-Nitrosodiphenylamine	20
1,4-Dichlorobenzene	10	Pyrene	10
3,3'-Dichlorobenzidine	5	1,2,4-Trichlorobenzene	10
Diethyl Phthalate	10		
	PESTICIDES AND PCBS		
Aldrin	0.01	Beta-Endosulfan	0.02
Alpha-BHC	0.05	Endosulfan sulfate	0.02
Beta-BHC	0.05	Endrin	0.02
Gamma-BHC	0.05	Endrin Aldehyde	0.1
Chlordane	0.2	Heptachlor	0.01
4,4'-DDT and derivatives	0.02	Heptachlor Epoxide	0.01
Dieldrin	0.02	PCBs	*2
Alpha-Endosulfan	0.01	Toxaphene	0.3

(MQL's Revised November 1, 2007)

Footnotes:

*1 Default MQL for Mercury is 0.005 unless Part I of your permit requires the more sensitive Method 1631 (Oxidation / Purge and Trap / Cold vapor Atomic Fluorescence Spectrometry), then the MQL shall be 0.0005.

*2 The Permittees are required to develop PCB congener-based MQLs. Prior to an approval of congener-based MQLs, the Permittees shall report the sum of detected congener concentrations.

PCB MQLs Table (Unit: pg/l)

Congener	MQLs*	Congener	MQLs*	Congener	MQLs*	Congener	MQLs*
1	**25**	57	**25**	124	**25**	181	**25**
2	**25**	58	**25**	126	**25**	182/187	**25**
3	**25**	61/70	**25**	127	**25**	183	**25**
4/10	**50**	62	**25**	128/162	**25**	184	**25**
5/8	**50**	63	**25**	129	**25**	185	**25**
6	**50**	65	**25**	130	**25**	186	**25**
7/9	**50**	66/76	**25**	131	**25**	188	**25**
11	**50**	67	**25**	132/161	**25**	189	**25**
12/13	**50**	68	**25**	133/142	**25**	190	**25**
14	**50**	73	**25**	134/143	**25**	191	**25**
15	**50**	74	**25**	135	**25**	192	**25**
16/32	**25**	77	**25**	136	**25**	193	**25**
17	**25**	78	**25**	137	**25**	194	**25**
18	**25**	79	**25**	138/163/164	**25**	195	**25**
19	**25**	80	**25**	139/149	**25**	196/203	**25**
20/21/33	**25**	81	**25**	140	**25**	197	**25**
22	**25**	82	**25**	141	**25**	198	**25**
23	**25**	83	**25**	144	**25**	199	**25**
24/27	**25**	84/92	**25**	145	**25**	200	**25**
25	**25**	85/116	**25**	146/165	**25**	201	**25**
26	**25**	86	**25**	147	**25**	202	**25**
28	**25**	87/117/125	**25**	148	**25**	204	**25**
29	**25**	88/91	**25**	150	**25**	205	**25**
30	**25**	89	**25**	151	**25**	206	**25**
31	**25**	90/101	**25**	152	**25**	207	**25**
34	**25**	93	**25**	153	**25**	208	**25**
35	**25**	94	**25**	154	**25**	209	**25**
36	**25**	95/98/102	**25**	155	**25**		
37	**25**	96	**25**	156	**25**		
38	**25**	97	**25**	157	**25**		
39	**25**	99	**25**	158/160	**25**		
40	**25**	100	**25**	159	**25**		
41/64/71/72	**25**	103	**25**	166	**25**		
42/59	**25**	104	**25**	167	**25**		
43/49	**25**	105	**25**	168	**25**		
44	**25**	106/118	**25**	169	**25**		
45	**25**	107/109	**25**	170	**25**		
46	**25**	108/112	**25**	171	**25**		
47	**25**	110	**25**	172	**25**		
48/75	**25**	111/115	**25**	173	**25**		
50	**25**	113	**25**	174	**25**		
51	**25**	114	**25**	175	**25**		
52/69	**25**	119	**25**	176	**25**		
53	**25**	120	**25**	177	**25**		
54	**25**	121	**25**	178	**25**		
55	**25**	122	**25**	179	**25**		
56/60	**25**	123	**25**	180	**25**		

Note * If adjusted Reporting Limits (RL) are used to adjust MQLs due to laboratory's contemporary ambient background, such adjusted RL shall be updated no less than once per six months. If laboratory method blank, field blank or trip blank subtraction are used in calculation of sample analytical result, supporting document shall be submitted with the Semiannual Status Report.

APPENDIX D
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Permitted Feature
Los Alamos/Pueblo	Rendija Canyon	R-SMA-0.5	R001
		R-SMA-1	R002
		R-SMA-1.95	R003
		R-SMA-2.05	R004
		R-SMA-2.3	R005
		R-SMA-2.5	R006
Los Alamos/Pueblo	Bayo Canyon	B-SMA-0.5	B001
		B-SMA-1	B002
Los Alamos/Pueblo	Pueblo Canyon	ACID-SMA-1.05	P001
		ACID-SMA-2	P002
		ACID-SMA-2.01	P002A
		ACID-SMA-2.1	P003
		P-SMA-0.3	P004
		P-SMA-1	P005
		P-SMA-2	P006
		P-SMA-2.15	P007
		P-SMA-2.2	P008
		P-SMA-3.05	P009
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-0.85	L001
		LA-SMA-0.9	L002
		LA-SMA-1	L003
		LA-SMA-1.1	L004
		LA-SMA-1.25	L005
		LA-SMA-2.1	L006
		LA-SMA-2.3	L007
		LA-SMA-3.1	L008
		LA-SMA-3.9	L009
		LA-SMA-4.1	L010
		LA-SMA-4.2	L011
		LA-SMA-5.01	L012
		LA-SMA-5.02	L012A
		LA-SMA-5.2	L013
		LA-SMA-5.31	L015
		LA-SMA-5.33	L016
		LA-SMA-5.35	L014
		LA-SMA-5.361	L017
		LA-SMA-5.362	L017A
		LA-SMA-5.51	L018
		LA-SMA-5.52	L018A
		LA-SMA-5.53	L018B
		LA-SMA-5.54	L018C

APPENDIX D
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Permitted Feature
Los Alamos/Pueblo	Los Alamos Canyon	LA-SMA-5.91	L019
		LA-SMA-5.92	L019A
		LA-SMA-6.25	L020
		LA-SMA-6.27	L021
		LA-SMA-6.3	L022
		LA-SMA-6.31	L022A
		LA-SMA-6.32	L023
		LA-SMA-6.34	L024
		LA-SMA-6.36	L025
		LA-SMA-6.38	L026
		LA-SMA-6.395	L027
		LA-SMA-6.5	L028
		LA-SMA-9	L029
		LA-SMA-10.11	L030
		LA-SMA-10.12	L030A
Los Alamos/Pueblo	DP Canyon	DP-SMA-0.3	D001
		DP-SMA-0.4	D002
		DP-SMA-0.6	D003
		DP-SMA-1	D004
		DP-SMA-2	D005
		DP-SMA-2.35	D006
		DP-SMA-3	D007
		DP-SMA-4	D008
Sandia	Sandia Canyon	S-SMA-0.25	S001
		S-SMA-1.1	S002
		S-SMA-2	S003
		S-SMA-2.01	S003A
		S-SMA-2.8	S004
		S-SMA-3.51	S005
		S-SMA-3.52	S005A
		S-SMA-3.53	S005B
		S-SMA-3.6	S006
		S-SMA-3.7	S007
		S-SMA-3.71	S008
		S-SMA-3.72	S009
		S-SMA-3.95	S010
		S-SMA-4.1	S011
		S-SMA-4.5	S012
		S-SMA-5	S013
		S-SMA-5.2	S014
		S-SMA-5.5	S015

APPENDIX D
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Permitted Feature
Sandia	Sandia Canyon	S-SMA-6	S016
Mortandad	Cañada del Buey	CDB-SMA-0.15	C001
		CDB-SMA-0.25	C002
		CDB-SMA-0.55	C003
		CDB-SMA-1	C004
		CDB-SMA-1.15	C005
		CDB-SMA-1.35	C006
		CDB-SMA-1.54	C007
		CDB-SMA-1.55	C008
		CDB-SMA-1.65	C009
		CDB-SMA-4	C010
Mortandad	Mortandad Canyon	M-SMA-1	M001
		M-SMA-1.2	M002
		M-SMA-1.21	M002A
		M-SMA-1.22	M002B
		M-SMA-3	M003
		M-SMA-3.1	M004
		M-SMA-3.5	M005
		M-SMA-4	M006
		M-SMA-5	M007
		M-SMA-6	M008
		M-SMA-7	M009
		M-SMA-7.9	M010
		M-SMA-9.1	M011
		M-SMA-10	M012
		M-SMA-10.01	M012A
		M-SMA-10.3	M013
		M-SMA-11.1	M014
		M-SMA-12	M015
		M-SMA-12.5	M016
		M-SMA-12.6	M017
		M-SMA-12.7	M018
		M-SMA-12.8	M019
		M-SMA-12.9	M020
		M-SMA-12.92	M021
		M-SMA-13	M022
Mortandad	Ten-Site Canyon	Pratt-SMA-1.05	T001
		T-SMA-1	T002
		T-SMA-2.5	T003
		T-SMA-2.85	T004
		T-SMA-3	T005

APPENDIX D
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Permitted Feature
Mortandad	Ten-Site Canyon	T-SMA-4	T006
		T-SMA-5	T007
		T-SMA-6.8	T008
		T-SMA-7	T009
		T-SMA-7.1	T010
Pajarito	Twomile Canyon	2M-SMA-1	E001
		2M-SMA-1.42	E002
		2M-SMA-1.43	E003
		2M-SMA-1.44	E004
		2M-SMA-1.45	E005
		2M-SMA-1.5	E006
		2M-SMA-1.65	E007
		2M-SMA-1.67	E008
		2M-SMA-1.7	E009
		2M-SMA-1.8	E010
		2M-SMA-1.9	E011
		2M-SMA-2	E012
		2M-SMA-2.2	E013
		2M-SMA-3	E014
		2M-SMA-2.5	E015
Pajarito	Threemile Canyon	3M-SMA-0.2	H001
		3M-SMA-0.4	H002
		3M-SMA-0.5	H003
		3M-SMA-0.6	H004
		3M-SMA-2.6	H005
		3M-SMA-4	H006
Pajarito	Pajarito Canyon	PJ-SMA-1.05	J001
		PJ-SMA-2	J002
		PJ-SMA-3.05	J003
		PJ-SMA-4.05	J004
		PJ-SMA-5	J005
		PJ-SMA-5.1	J006
		PJ-SMA-6	J007
		PJ-SMA-7	J008
		PJ-SMA-8	J009
		PJ-SMA-9	J010
		PJ-SMA-10	J 012
		PJ-SMA-11	J013
		PJ-SMA-11.1	J014
		PJ-SMA-13	J015
		PJ-SMA-13.7	J016

APPENDIX D
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Permitted Feature
Pajarito	Pajarito Canyon	PJ-SMA-14	J017
		PJ-SMA-14.2	J018
		PJ-SMA-14.3	J019
		PJ-SMA-14.4	J020
		PJ-SMA-14.6	J021
		PJ-SMA-14.8	J022
		PJ-SMA-16	J023
		PJ-SMA-17	J024
		PJ-SMA-18	J026
		PJ-SMA-19	J025
		PJ-SMA-20	J027
		STRM-SMA-1.05	J028
		STRM-SMA-1.5	J029
		STRM-SMA-4.2	J030
		STRM-SMA-5.05	J031
Water/Cañon de Valle	Cañon de Valle	CDV-SMA-1.2	V001
		CDV-SMA-1.3	V002
		CDV-SMA-1.4	V003
		CDV-SMA-1.45	V004
		CDV-SMA-1.7	V005
		CDV-SMA-2	V006
		CDV-SMA-2.3	V007
		CDV-SMA-2.41	V008
		CDV-SMA-2.42	V008A
		CDV-SMA-2.5	V009
		CDV-SMA-2.51	V009A
		CDV-SMA-3	V010
		CDV-SMA-4	V011
		CDV-SMA-6.01	V012
		CDV-SMA-6.02	V012A
		CDV-SMA-7	V013
		CDV-SMA-8	V014
		CDV-SMA-8.5	V015
		CDV-SMA-9.05	V016
Water/Cañon de Valle	Fence Canyon	F-SMA-2	F001
Water/Cañon de Valle	Potrillo Canyon	PT-SMA-0.5	I001
		PT-SMA-1	I002
		PT-SMA-1.7	I003
		PT-SMA-2	I004
		PT-SMA-2.01	I004A
		PT-SMA-3	I005
		PT-SMA-4.2	I007

APPENDIX D
PERMITTED FEATURE ASSIGNMENT

Watershed	Canyon	SMA Number	Permitted Feature
Water/Cañon de Valle	Water Canyon	W-SMA-1	W001
		W-SMA-1.5	W002
		W-SMA-2.05	W003
		W-SMA-3.5	W004
		W-SMA-4.1	W005
		W-SMA-5	W006
		W-SMA-6	W007
		W-SMA-7	W008
		W-SMA-7.8	W009
		W-SMA-7.9	W010
		W-SMA-8	W011
		W-SMA-8.7	W012
		W-SMA-8.71	W012A
		W-SMA-9.05	W013
		W-SMA-9.5	W014
		W-SMA-9.7	W015
		W-SMA-9.8	W016
		W-SMA-9.9	W017
		W-SMA-10	W018
		W-SMA-11.7	W019
		W-SMA-12.05	W020
		W-SMA-14.1	W021
		W-SMA-15.1	W022
Ancho	Ancho Canyon	A-SMA-1.1	A001
		A-SMA-2	A002
		A-SMA-2.5	A003
		A-SMA-2.7	A004
		A-SMA-2.8	A005
		A-SMA-3	A006
		A-SMA-3.5	A007
		A-SMA-4	A008
		A-SMA-6	A009
Chaquehui	Chaquehui Canyon	CHQ-SMA-0.5	Q001
		CHQ-SMA-1.01	Q002
		CHQ-SMA-1.02	Q002A
		CHQ-SMA-1.03	Q002B
		CHQ-SMA-2	Q003
		CHQ-SMA-3.05	Q004
		CHQ-SMA-4	Q005
		CHQ-SMA-4.1	Q006
		CHQ-SMA-4.5	Q007
		CHQ-SMA-5.05	Q008
		CHQ-SMA-6	Q009
		CHQ-SMA-7.1	Q010

Los Alamos National Laboratory Los Alamos, NM 87545	**COMPLIANCE STATUS REPORT** **Reporting Period:**	NPDES Permit No. NM0030759
Permitted Feature No.:	**Site Monitoring Area No.**	**Permit Phase: Baseline Control Measures** ☐ **Corrective Action** ☐

Monitoring Required? ☐ **Measurable Discharge?** ☐ **Sample(s) Collected?** ☐

Monitoring Requirement	Parameter(s) > Target Action Level				Control Measure(s)		Completion Date	
	(Yes=1, No=0)	Quality or Concentration	Units	Result Description	Type	Permit Phase	Required	Actual

Comments:

	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.		
Typed or Printed Name / Title of Principal Executive Officer or Authorized Agent		Signature of Principal Executive Officer or Authorized Agent	Date

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

INTRODUCTION

Pursuant to the requirements set forth in NPDES Permit No. NM0030759 (Permit), five (5) types of non-numeric technology-based effluent limits (Part 1.A.1-5), also referred to as baseline control measures, are to be installed at all Los Alamos National Laboratory (LANL) Site Monitoring Areas (SMAs) within six months of the effective date of the Permit. The five baseline control measure types addressed are:

1. Erosion and Sedimentation Controls;
2. Management of Run-on and Run-off;
3. Employee Training;
4. Unauthorized Discharges; and
5. Other Controls, where applicable:
    a. Implement controls to ensure no waste, garbage, or floatable debris are discharged to receiving waters, except as authorized by a permit issued under Section 404 of the Clean Water Act (CWA);
    b. Minimize generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments;
    c. Minimize introduction of raw, final, or waste materials to exposed areas; and
    d. Place flow velocity dissipation devices at erosive discharge locations and along the length of any discharge channel if the flows would otherwise create erosive conditions.

The purpose of Appendix E is to identify the baseline control measures that are installed or planned for installation within six (6) months of the effective date of the Permit. Further discussion of each of the control measure types is provided in Section I. Additional information describing control measures can be found at http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm.

Table E-1 provides detail about the structural baseline control measures, installed or planned for installation, at each Site Monitoring Area (SMA) in accordance with the Permit requirements, as applicable. The table also identifies the purpose of the structural control measure, i.e., for erosion control, sediment control, run-on control, and/or run-off control. If all of the listed baseline control measures have been installed at an SMA, the "Installations Complete?" column is checked. Planned baseline control measures may be modified, as necessary, to address changes in site conditions that warrant a different type of control measure or change in location. All baseline control measures, including any changes thereto, will be specifically documented upon installation and certified as required by Part I.B.1 of the Permit.

I. BASELINE CONTROL MEASURES

1. Erosion and Sedimentation Controls

The purpose of erosion and sedimentation controls is to minimize the potential for erosion occurring when storm water runoff flows across an area and to retain transported sediment onsite.

Baseline control measures used for erosion control at LANL include the following major categories: cap, channel/swale, established vegetation, gabions, and seed and mulch.

- Caps can be composed of earth, rock, or asphalt.
- Subcategories of channel/swale include: earthen, concrete/asphalt, rock, culvert, vegetated swale, rip rap, and water bar.
- Subcategories of established vegetation include forested needle cast, grasses and shrubs, and vegetation buffer strip.
- Gabions can include gabion blankets.
- Subcategories of seed and mulch include erosion control blanket and seed, hydromulch and seed, seeding, wood straw and seed, and gravel mulch.

Baseline control measures used for sediment control include the following major categories: berms, check dams, established vegetation, gabions, and sediment traps and basins.

- Subcategories of berms include asphalt, base course, curbing, earthen, gravel bags, log, retaining walls, straw wattles, Terra Tubes, and Triangular Silt Dikes.
- Check dams can be composed of juniper bales, logs, or rock.

2. Management of Run-on and Run-off

The purpose of run-on/run-off control measures is to divert, infiltrate, reuse, contain or otherwise reduce storm water run-on/run-off. Baseline control measures used for managing run-on and run-off at LANL include the following major categories: berms, channel/swale, check dams, established vegetation, gabions, and sediment traps and basins. Subcategories, where they exist, were described above.

3. Training

Project personnel receive both formal and informal training in the execution of baseline control measures. Formal training, which covers all aspects of the developed Site Discharge Pollution Prevention Plan (SDPPP), is conducted each spring prior to the field season and documented in the SDPPP. During the field season, weekly tailgate meetings are conducted to inform personnel of impending changes and issues related to work for the upcoming week.

4. Unauthorized Discharges

Visual surveys are conducted as part of the Permit-required site inspections to identify the potential for non-storm water discharges at each SMA. There are no identified sources of unauthorized discharges at this time, including process wastewater, spills or leaks of toxic or hazardous materials, contaminated groundwater, or any contaminated non-storm water associated with the monitored areas.

5. Other Controls: additional controls implemented, as applicable

During the course of the Permit, the following control measures will be implemented in response to a triggering event, e.g., soil disturbance.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

(a) **Litter and Debris:** No waste, garbage, or floatable debris will be permitted to be discharged to receiving waters. SMAs adjacent to or within urban areas have the greatest potential for impacts due to off-site litter sources. Sites will be inspected for litter, and visible, potentially floatable debris as part of the Permit required site inspections. Any litter, and visible, floatable debris will be removed and managed in appropriate containers and in accordance with LANL waste management policies. SMAs exhibiting problems with litter or other floatable debris, as identified in site inspections, will have signage or other structural controls installed to address these areas.

(b) **Dust Minimization:** The potential for generating dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments is primarily at SMAs subject to construction activity involving ongoing soil disturbance. As identified in Permit required site inspections, dust generation and the tracking of materials shall be minimized with the application of water and/or an approved soil stabilizer. Water and soil stabilizer used to suppress dust generation will be applied at a rate to avoid discharge from the site.

(c) **Waste Materials Minimization:** The introduction of raw, final, or waste materials to exposed areas will be minimized. Good housekeeping practices will be maintained and materials introduced or removed from the areas will be managed or disposed of properly at the end of each workday in accordance with LANL waste management policies.

(d) **Flow Dissipation:** Flow velocity dissipation is addressed through the implementation of baseline control measures. Virtually all of LANL's control measures dissipate the velocity of flow across an area. Discharges from culverts and other charged conveyances have, or have planned, specific control measures installed to dissipate the resultant flow velocity.

II. SUMMARY

Sixty-five (65) SMAs currently meet all baseline control measure requirements (Table E-2). Certification documentation for these 65 SMAs, as described in the Permit (Part I.B.1), will be submitted to EPA within 30 days of the effective date of the Permit.

Baseline control measure installation at the remaining SMAs is ongoing. Certification documentation of baseline controls installed after the effective date of the Permit, for the remaining 185 SMAs, will be submitted within 30 days of completion as described in the Permit (Part I.B.1). All SMAs will have completed baseline controls within six (6) months of the Permit effective date.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1. Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
1	R-SMA-0.5		Established Vegetation	x			
			Berms		x	x	x
2	R-SMA-1		Established Vegetation	x			
			Check Dam		x		x
			Gabions	x	x	x	
			Channel/Swale	x		x	
3	R-SMA-1.95		Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x		x
4	R-SMA-2.05	✓	Established Vegetation	x			
			Check Dam		x		x
5	R-SMA-2.3	✓	Established Vegetation	x			
			Check Dam		x		x
6	R-SMA-2.5		Established Vegetation	x			
			Check Dam		x	x	x
			Channel/Swale	x		x	
7	B-SMA-0.5		Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x	x	x
			Check Dam		x		x
8	B-SMA-1		Established Vegetation	x			
			Check Dam		x	x	x
9	P-SMA-0.3		To Be Reassessed				
10	P-SMA-1	✓	Established Vegetation	x		x	x
			Berms		x	x	x
			Channel/Swale	x		x	x
11	P-SMA-2	✓	Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
12	P-SMA-2.15		Established Vegetation	x		x	
			Channel/Swale	x			x
			Check Dam		x		x
13	P-SMA-2.2		Established Vegetation	x			
			Channel/Swale	x		x	x
			Berms		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
14	P-SMA-3.05		Established Vegetation	x			
			Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x		x
15	ACID-SMA-1.05	✓	Berms		x	x	x
			Channel/Swale	x		x	
16	ACID-SMA-2	✓	Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x	x	
17	ACID-SMA-2.01		Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
18	ACID-SMA-2.1	✓	Seed and Mulch	x		x	
			Established Vegetation	x	x		x
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x	x	
19	DP-SMA-0.3		Established Vegetation	x		x	
			Gabions		x		x
			Check Dam		x		x
20	DP-SMA-0.4		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
			Check Dam		x	x	
21	DP-SMA-0.6		To Be Reassessed				
			To Be Reassessed				
22	DP-SMA-1		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
			Check Dam		x		x
			Seed and Mulch	x			
23	DP-SMA-2	✓	Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
24	DP-SMA-2.35		Established Vegetation	x			

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
			Berms		x	x	x
			Channel/Swale	x			x
25	DP-SMA-3		To Be Reassessed				
26	DP-SMA-4		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x	x	
27	LA-SMA-0.85	✓	Established Vegetation	x			x
			Berms		x	x	
			Gabions		x		x
28	LA-SMA-0.9		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
29	LA-SMA-1		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x		x
30	LA-SMA-1.1		Established Vegetation	x		x	
			Channel/Swale	x			x
			Check Dam		x		x
31	LA-SMA-1.25	✓	Established Vegetation	x			
			Berms		x	x	
			Gabions		x		x
32	LA-SMA-2.1		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
33	LA-SMA-2.3		Established Vegetation	x			
			Berms		x	x	x
34	LA-SMA-3.1	✓	Established Vegetation	x	x		x
			Channel/Swale	x		x	
35	LA-SMA-3.9		Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
36	LA-SMA-4.1	✓	Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
37	LA-SMA-4.2	✓	Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
38	LA-SMA-5.01		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
39	LA-SMA-5.02		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x		x	
40	LA-SMA-5.2		Established Vegetation	x			
			Check Dam		x		x
41	LA-SMA-5.31		Seed and Mulch	x			
			Established Vegetation	x			
			Check Dam		x	x	
			Berms		x		x
42	LA-SMA-5.33		Established Vegetation	x			
			Berms		x	x	x
43	LA-SMA-5.35	✓	Berms		x	x	
			Channel/Swale	x		x	x
44	LA-SMA-5.361		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
45	LA-SMA-5.362		Berms		x		x
			Check Dam		x	x	x
			Seed and Mulch	x			
46	LA-SMA-5.51		Established Vegetation	x			
			Berms		x	x	x
			Gabions	x			x
			Seed and Mulch	x			
			Channel/Swale	x			x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
47	LA-SMA-5.52		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale		x		x
48	LA-SMA-5.53		Established Vegetation	x			
			Berms	x	x	x	x
49	LA-SMA-5.54		Established Vegetation	x			
			Berms	x	x	x	x
50	LA-SMA-5.91	✓	Seed and Mulch	x		x	
			Established Vegetation	x			
			Sediment Traps and Basins		x	x	x
51	LA-SMA-5.92	✓	Established Vegetation	x			
			Berms		x	x	x
			Sediment Traps and Basins		x		x
52	LA-SMA-6.25	✓	Established Vegetation	x			
			Berms		x	x	x
53	LA-SMA-6.27	✓	Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
54	LA-SMA-6.3		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
55	LA-SMA-6.31		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
			Check Dam		x		x
56	LA-SMA-6.32		Established Vegetation	x			
			Berms		x	x	x
57	LA-SMA-6.34		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
58	LA-SMA-6.36		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
59	LA-SMA-6.38		Established Vegetation	x			
			Berms		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
60	LA-SMA-6.395		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x			x
61	LA-SMA-6.5		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
			Seed and Mulch	x			
62	LA-SMA-9		Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
63	LA-SMA-10.11		Channel/Swale	x			x
			Check Dam		x		x
64	LA-SMA-10.12		Channel/Swale	x			x
			Check Dam		x	x	x
			Berms		x		x
65	S-SMA-0.25	✓	Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Gabions	x	x		x
66	S-SMA-1.1		Berms		x	x	x
			Gabions		x		x
			Check Dam		x	x	
			Channel/Swale	x		x	
67	S-SMA-2	✓	Established Vegetation	x			
			Channel/Swale	x		x	
			Gabions		x		x
68	S-SMA-2.01		Channel/Swale	x			x
			Berms		x	x	
69	S-SMA-2.8		Established Vegetation	x			
			Berms		x	x	x
70	S-SMA-3.51		Established Vegetation	x			
			Cap	x		x	
			Check Dam		x	x	
			Berms		x	x	x
71	S-SMA-3.52		Established Vegetation	x			
			Berms		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
72	S-SMA-3.53		Established Vegetation	x			
			Berms		x		x
73	S-SMA-3.6	✓	Established Vegetation	x			
			Channel/Swale	x		x	x
			Check Dam		x	x	x
			Gabions		x	x	
74	S-SMA-3.7		Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x	x	x
75	S-SMA-3.71		Established Vegetation	x			
			Channel/Swale	x			x
			Gabions		x	x	
			Check Dam		x		x
			Berms		x	x	
			Seed and Mulch	x		x	
76	S-SMA-3.72		Established Vegetation	x			
			Check Dam		x		x
			Berms		x	x	
			Seed and Mulch	x			x
77	S-SMA-3.95		Established Vegetation	x			
			Berms		x	x	x
78	S-SMA-4.1		Berms		x	x	
			Check Dam		x		x
79	S-SMA-4.5		Established Vegetation	x			
			Berms		x	x	x
80	S-SMA-5		Established Vegetation	x			
			Channel/Swale	x		x	
			Gabions		x	x	
			Berms		x		x
81	S-SMA-5.2		Established Vegetation	x			
			Check Dam		x	x	x
			Channel/Swale	x		x	
			Berms		x		x
82	S-SMA-5.5		Established Vegetation	x			
			Berms		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
83	S-SMA-6		Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
			Check Dam		x	x	
84	M-SMA-1	✓	Established Vegetation	x			
			Gabions		x	x	x
85	M-SMA-1.2		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
			Channel/Swale	x		x	
86	M-SMA-1.21		Established Vegetation	x			
			Channel/Swale	x			x
			Check Dam		x		x
			Berms		x		x
87	M-SMA-1.22		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
88	M-SMA-3		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	x
			Check Dam		x		x
89	M-SMA-3.1		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x			x
			Check Dam		x		x
90	M-SMA-3.5		Established Vegetation	x			
			Check Dam		x	x	x
91	M-SMA-4	✓	Established Vegetation	x			
			Channel/Swale	x		x	x
			Check Dam		x	x	
			Gabions	x		x	
92	M-SMA-5		Seed and Mulch	x		x	
			Established Vegetation	x		x	x
			Channel/Swale	x		x	
			Check Dam		x	x	x
			Berms		x	x	

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
93	M-SMA-6		Established Vegetation	x			
			Channel/Swale	x		x	
			Cap	x		x	
			Check Dam		x		x
94	M-SMA-7		Established Vegetation	x			
			Check Dam		x		x
			Berms		x	x	
95	M-SMA-7.9		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
96	M-SMA-9.1		Seed and Mulch	x		x	
			Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
97	M-SMA-10		Established Vegetation	x			
			Channel/Swale	x		x	x
			Check Dam		x		x
98	M-SMA-10.01		Seed and Mulch	x			
			Berms		x	x	
			Check Dam		x		x
99	M-SMA-10.3		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
100	M-SMA-11.1		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x		x
101	M-SMA-12		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
			Channel/Swale		x	x	
102	M-SMA-12.5	✓	Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
103	M-SMA-12.6		Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x		x
104	M-SMA-12.7		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
105	M-SMA-12.8		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x		x
106	M-SMA-12.9		Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
107	M-SMA-12.92	✓	Established Vegetation	x			
			Sediment Traps and Basins		x	x	x
108	M-SMA-13		Established Vegetation	x			
			Check Dam		x	x	x
109	T-SMA-1		Established Vegetation	x			
			Berms		x		x
			Cap	x		x	
			Channel/Swale	x			x
110	T-SMA-2.5		Channel/Swale	x		x	
			Cap	x			x
			Check Dam		x		x
111	T-SMA-2.85		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x	x	x
112	T-SMA-3		Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
113	T-SMA-4		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
			Gabions		x		x
114	T-SMA-5		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
115	T-SMA-6.8		Established Vegetation	x			
			Berms		x	x	x
116	T-SMA-7		Established Vegetation	x			
			Check Dam		x		x
			Seed and Mulch	x			
			Berms		x	x	
117	T-SMA-7.1		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x		x
118	CDB-SMA-0.15	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Check Dam		x	x	x
119	CDB-SMA-0.25	✓	Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
			Check Dam		x		x
120	CDB-SMA-0.55		Established Vegetation	x			
			Berms		x		x
			Check Dam		x	x	x
121	CDB-SMA-1		Established Vegetation	x			
			Channel/Swale	x		x	x
			Check Dam		x		x
122	CDB-SMA-1.15	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
123	CDB-SMA-1.35	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
124	CDB-SMA-1.54	✓	Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
			Check Dam		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
125	CDB-SMA-1.55	✓	Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
126	CDB-SMA-1.65	✓	Berms		x		x
			Channel/Swale	x		x	
127	CDB-SMA-4		Established Vegetation	x			
			Channel/Swale	x			x
			Sediment Traps and Basins		x		x
			Check Dam		x	x	x
128	Pratt-SMA-1.05		Established Vegetation	x			
			Berms	x	x	x	x
			Channel/Swale	x		x	
			Check Dam		x		x
			Gabions		x		x
			Cap	x		x	
			Seed and Mulch	x		x	
129	2M-SMA-1	✓	Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x	x	
			Gabions		x		x
130	2M-SMA-1.42		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x	x	
131	2M-SMA-1.43	✓	Established Vegetation	x		x	
			Check Dam		x		x
132	2M-SMA-1.44		Established Vegetation	x			
			Berms		x	x	x
133	2M-SMA-1.45		Seed and Mulch	x			x
			Established Vegetation	x			
			Berms		x	x	x
134	2M-SMA-1.5	✓	Established Vegetation	x	x		x
			Channel/Swale	x		x	
135	2M-SMA-1.65		Established Vegetation	x			
			Berms		x	x	x
136	2M-SMA-1.67		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x			

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
137	2M-SMA-1.7		Established Vegetation	x			
			Berms		x	x	
138	2M-SMA-1.8		Berms		x	x	
			Check Dam		x		x
139	2M-SMA-1.9		Berms		x	x	x
140	2M-SMA-2		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x			x
			Gabions		x	x	x
141	2M-SMA-2.2	✓	Berms		x	x	
			Channel/Swale	x			x
142	2M-SMA-2.5		Established Vegetation	x			
			Berms		x	x	x
143	2M-SMA-3		Established Vegetation	x			
			Berms		x	x	x
144	STRM-SMA-1.05	✓	Established Vegetation	x		x	
			Channel/Swale	x			x
			Check Dam		x	x	
145	STRM-SMA-1.5	✓	Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x
146	STRM-SMA-4.2	✓	Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
147	STRM-SMA-5.05	✓	Established Vegetation	x			
			Berms		x	x	x
148	3M-SMA-0.2	✓	Established Vegetation	x			
			Check Dam		x	x	x
149	3M-SMA-0.4		Established Vegetation	x			
			Berms		x		x
150	3M-SMA-0.5		Established Vegetation	x			
			Channel/Swale	x			x
			Check Dam		x		x
			Seed and Mulch	x		x	
			Berms		x		x
151	3M-SMA-0.6		Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
152	3M-SMA-2.6		Established Vegetation	x			
			Check Dam		x	x	x
153	3M-SMA-4		Established Vegetation	x			
			Gabions		x	x	
			Channel/Swale	x			x
			Berms		x		x
154	PJ-SMA-1.05	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	x
			Check Dam		x		x
155	PJ-SMA-2	✓	Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
156	PJ-SMA-3.05		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
157	PJ-SMA-4.05	✓	Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
158	PJ-SMA-5	✓	Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x	x	x
159	PJ-SMA-5.1		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x		x
160	PJ-SMA-6	✓	Established Vegetation	x			
			Check Dam		x	x	x
161	PJ-SMA-7	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
162	PJ-SMA-8	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
			Check Dam		x	x	
163	PJ-SMA-9	✓	Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	
			Check Dam		x	x	x
164	PJ-SMA-10		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x			x
			Check Dam		x		x
165	PJ-SMA-11		Established Vegetation	x			
			Seed and Mulch	x			
			Berms		x	x	
166	PJ-SMA-11.1		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x			
167	PJ-SMA-13		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x			
168	PJ-SMA-13.7		Established Vegetation	x			x
			Gabions	x			x
			Check Dam		x	x	
169	PJ-SMA-14		Cap	x			
			Berms		x	x	x
			Seed and Mulch	x			
170	PJ-SMA-14.2	✓	Established Vegetation	x		x	
			Berms		x		x
171	PJ-SMA-14.3	✓	Established Vegetation	x	x		x
172	PJ-SMA-14.4		Established Vegetation	x			x
			Berms		x	x	x
			Seed and Mulch	x		x	
173	PJ-SMA-14.6	✓	Established Vegetation	x			x
			Check Dam		x	x	

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
174	PJ-SMA-14.8		Established Vegetation	x			
			Berms		x	x	x
175	PJ-SMA-16	✓	Established Vegetation	x			
			Berms		x		x
176	PJ-SMA-17	✓	Established Vegetation	x			
			Channel/Swale	x			x
			Sediment Traps and Basins		x		x
			Check Dam		x	x	
177	PJ-SMA-18	✓	Seed and Mulch	x			x
			Established Vegetation	x			
			Sediment Traps and Basins		x		x
			Check Dam		x		x
178	PJ-SMA-19	✓	Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
			Gabions		x		x
179	PJ-SMA-20		Established Vegetation	x			
			Berms		x		x
			Cap	x		x	
			Channel/Swale	x			x
180	PT-SMA-0.5		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x		x	
			Check Dam		x	x	
181	PT-SMA-1		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x			
182	PT-SMA-1.7		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x	x	
183	PT-SMA-2		Established Vegetation	x			
			Berms		x	x	x
184	PT-SMA-2.01		Established Vegetation	x			
			Channel/Swale	x	x	x	
			Berms		x		x
185	PT-SMA-3	✓	Channel/Swale	x		x	
			Check Dam		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
186	PT-SMA-4.2	✓	Established Vegetation	x			
			Channel/Swale	x		x	x
			Check Dam		x	x	
187	F-SMA-2		Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x		x
188	CDV-SMA-1.2		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
			Check Dam		x		x
189	CDV-SMA-1.3		Established Vegetation	x			
			Berms		x		x
190	CDV-SMA-1.4		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
			Check Dam		x	x	x
191	CDV-SMA-1.45		Established Vegetation	x			
			Berms		x	x	x
192	CDV-SMA-1.7		Seed and Mulch	x			x
			Established Vegetation	x			
			Check Dam		x	x	x
193	CDV-SMA-2		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
			Check Dam		x		x
194	CDV-SMA-2.3		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x	x	x
			Gabions		x		x
195	CDV-SMA-2.41		Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
			Berms		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
196	CDV-SMA-2.42		Established Vegetation	x			
			Channel/Swale	x			x
			Check Dam		x		x
			Gabions		x		x
			Berms		x	x	x
			Seed and Mulch	x			
197	CDV-SMA-2.5		Seed and Mulch	x		x	x
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	x
			Check Dam		x	x	x
198	CDV-SMA-2.51		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x	x	x
199	CDV-SMA-3		Established Vegetation	x			
			Check Dam		x		x
			Berms		x	x	x
200	CDV-SMA-4		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
201	CDV-SMA-6.01		Established Vegetation	x			
			Berms		x	x	x
			Seed and Mulch	x			
202	CDV-SMA-6.02		Established Vegetation	x			
			Berms		x	x	x
203	CDV-SMA-7		Established Vegetation	x			
			Berms		x	x	x
204	CDV-SMA-8		Established Vegetation	x			x
			Check Dam		x	x	x
			Seed and Mulch		x		x
205	CDV-SMA-8.5		Established Vegetation	x			
			Berms		x	x	x
206	CDV-SMA-9.05		Established Vegetation	x			
			Berms		x	x	x
207	W-SMA-1	✓	Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
208	W-SMA-1.5		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x			x
			Check Dam		x	x	x
209	W-SMA-2.05		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
210	W-SMA-3.5		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x			x
			Check Dam		x		x
211	W-SMA-4.1		Established Vegetation	x			
			Berms		x	x	x
212	W-SMA-5		Seed and Mulch	x		x	
			Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x		x
			Gabions		x		x
213	W-SMA-6		Established Vegetation	x			
			Berms		x		x
214	W-SMA-7		Seed and Mulch	x		x	x
			Established Vegetation	x			
			Check Dam		x		x
			Berms		x	x	
215	W-SMA-7.8		Established Vegetation	x			
			Check Dam		x	x	x
			Berms		x	x	
			Channel/Swale	x		x	
216	W-SMA-7.9		Established Vegetation	x			
			Check Dam		x		x
217	W-SMA-8		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x	x	x
218	W-SMA-8.7		Established Vegetation	x			
			Check Dam		x	x	x
			Berms		x	x	x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
219	W-SMA-8.71		Established Vegetation	x			
			Berms		x	x	x
220	W-SMA-9.05		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x		x
221	W-SMA-9.5	✓	Established Vegetation	x			
			Berms		x	x	x
222	W-SMA-9.7		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x	x	
223	W-SMA-9.8		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
224	W-SMA-9.9		Established Vegetation	x			
			Berms		x	x	
			Seed and Mulch	x			
			Check Dam		x		x
225	W-SMA-10		Seed and Mulch	x			
			Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x		x	
226	W-SMA-11.7		Established Vegetation	x			
			Check Dam		x		x
			Berms	x	x	x	
			Channel/Swale	x			x
227	W-SMA-12.05		Established Vegetation	x			
			Channel/Swale	x		x	
			Check Dam		x		x
			Berms		x		x
228	W-SMA-14.1		Established Vegetation	x			
			Check Dam		x	x	x
			Channel/Swale	x		x	
			Seed and Mulch	x			
			Berms		x	x	
229	W-SMA-15.1		Established Vegetation	x			
			Check Dam		x		x

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
230	A-SMA-1.1	✓	Established Vegetation	x			x
			Benms		x	x	
231	A-SMA-2		Established Vegetation	x			
			Channel/Swale	x		x	
			Benms		x		x
232	A-SMA-2.5		Established Vegetation	x			
			Berms		x	x	x
233	A-SMA-2.7		Established Vegetation	x			
			Channel/Swale	x		x	
			Berms		x		x
			Check Dam		x	x	
234	A-SMA-2.8		Established Vegetation	x			
			Seed and Mulch	x			
			Benms		x		x
235	A-SMA-3	✓	Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	x
			Check Dam		x		x
236	A-SMA-3.5		Established Vegetation	x			
			Berms		x		x
237	A-SMA-4		Established Vegetation	x			
			Benms		x	x	
			Channel/Swale		x	x	
			Check Dam		x		x
238	A-SMA-6		Established Vegetation	x			
			Berms		x	x	x
			Channel/Swale	x			x
			Check Dam		x	x	x
239	CHQ-SMA-0.5		Established Vegetation	x			
			Check Dam		x	x	
			Benms		x		x
			Channel/Swale		x	x	
240	CHQ-SMA-1.01		Established Vegetation	x			
			Berms		x	x	x
241	CHQ-SMA-1.02		Check Dam		x	x	x
			Cap	x			

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

TABLE E-1 (cont'd). Baseline control measures installed or planned for installation, listed by SMA.

No.	SMA Number	Installations Complete? (1)	Type of Control Measure	Purpose of Control			
				Erosion Control	Sediment Control	Run-On Control (2)	Run-Off Control
242	CHQ-SMA-1.03		Established Vegetation	x		x	x
			Check Dam		x		x
			Cap	x			x
			Channel/Swale	x		x	
243	CHQ-SMA-2		Established Vegetation	x			
			Berms		x	x	
			Channel/Swale	x		x	
			Check Dam		x		x
244	CHQ-SMA-3.05		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
245	CHQ-SMA-4		Established Vegetation	x			
			Berms		x	x	x
			Check Dam		x		x
			Seed and Mulch	x		x	
246	CHQ-SMA-4.1		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x		x
247	CHQ-SMA-4.5		Established Vegetation	x			
			Berms		x		x
			Check Dam		x		x
248	CHQ-SMA-5.05	✓	Established Vegetation	x			
			Berms		x		x
			Channel/Swale	x		x	x
			Check Dam		x		x
249	CHQ-SMA-6		Seed and Mulch	x		x	x
			Established Vegetation	x			
			Berms		x		x
			Check Dam		x	x	x
250	CHQ-SMA-7.1		Established Vegetation	x			
			Berms		x	x	
			Check Dam		x	x	x
			Channel/Swale		x	x	

(1) ✓ indicates that all baseline control measures have been installed at the SMA.
(2) A blank entry indicates that there is no run-on issue identified at the SMA.

APPENDIX E
BASELINE CONTROL MEASURES INSTALLED OR TO BE INSTALLED

Table E-2. SMAs, listed by watershed, where baseline control measures installation and implementation has been completed.

(Baseline control measures associated with these SMAs shall be certified within 30 days of the effective date of the Permit.)

	Watershed				
	Los Alamos/ Pueblo	**Mortandad/ Sandia**	**Pajarito**	**Water/ Canon de Valle**	**Ancho/ Chaquehui**
SMA	DP-SMA-2 DP-SMA-3 LA-SMA-0.85 LA-SMA-1.25 LA-SMA-3.1 LA-SMA-4.1 LA-SMA-4.2 LA-SMA-5.35 LA-SMA-5.91 LA-SMA-5.92 LA-SMA-6.25 LA-SMA-6.27 ACID-SMA-1.05 ACID-SMA-2 ACID-SMA-2.1 P-SMA-0.3 P-SMA-1 P-SMA-2 R-SMA-2.05 R-SMA-2.3	CDB-SMA-0.15 CDB-SMA-0.25 CDB-SMA-1.15 CDB-SMA-1.35 CDB-SMA-1.54 CDB-SMA-1.55 CDB-SMA-1.65 M-SMA-1 M-SMA-4 M-SMA-12.5 M-SMA-12.92 S-SMA-0.25 S-SMA-2 S-SMA-3.6	2M-SMA-1 2M-SMA-1.43 2M-SMA-1.5 2M-SMA-2.2 3M-SMA-0.2 STRM-SMA-1.05 STRM-SMA-1.5 STRM-SMA-4.2 STRM-SMA-5.05 PJ-SMA-1.05 PJ-SMA-2 PJ-SMA-4.05 PJ-SMA-5 PJ-SMA-6 PJ-SMA-7 PJ-SMA-8 PJ-SMA-9 PJ-SMA-14.2 PJ-SMA-14.3 PJ-SMA-14.6 PJ-SMA-16 PJ-SMA-17 PJ-SMA-18 PJ-SMA-19	PT-SMA-3 PT-SMA-4.2 W-SMA-1 W-SMA-9.5	A-SMA-1.1 A-SMA-3 CHQ-SMA-5.05