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Date: December 16, 2010  
Refer To: ENV-RCRA-10-244  
LAUR: 10-08294

Ms. Paulette Johnsey, Chief  
Compliance Assurance and Enforcement Division (6EN-WC)  
U.S. Environmental Protection Agency, Region 6  
1445 Ross Avenue, Suite 1200  
Dallas, TX 75202-2733

Dear Ms. Johnsey:

**SUBJECT: NPDES PERMIT NO. NM0030759 - SUBMITTAL OF CERTIFICATION OF  
COMPLETION OF BASELINE CONTROL MEASURES FOR 65 SITE  
MONITORING AREAS, DATED DECEMBER 16, 2010**

These documents are being submitted in accordance with the requirements of NPDES Permit No. NM0030759 (the Permit) for the Los Alamos National Laboratory, issued to Los Alamos National Security, LLC, and the U.S. Department of Energy, effective November 1, 2010. As specified in Part I, Section B.1, Installation of Baseline Control Measures, "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."

The certification documentation for baseline control measures installed at 65 SMAs which are listed in Appendix E, Table E-1 is enclosed. The certification documentation is organized into reports which group the Permitted Features and SMAs according to the corresponding watershed and canyon assignments in Appendix D, Permitted Feature Assignment. Each certification report includes a description and photographs of all completed baseline control measures, and the certification is signed in accordance with Part III, Section D.11 of the Permit and 40 CFR 122.22(b).

This baseline control measure certification submittal consists of seven (7) report enclosures for the following Watersheds, Permitted Features, and SMAs. The Sites associated with each SMA are given in Appendix A of the Permit and are also listed below.

| Permitted Feature                                   | SMA Number    | Site Number |
|-----------------------------------------------------|---------------|-------------|
| <b>Enclosure 1: Bayo, DP, &amp; Rendija Canyons</b> |               |             |
| B001                                                | B-SMA-0.5     | 10-001(a)   |
|                                                     |               | 10-001(b)   |
|                                                     |               | 10-001(c)   |
|                                                     |               | 10-001(d)   |
|                                                     |               | 10-004(a)   |
|                                                     |               | 10-004(b)   |
|                                                     |               | 10-008      |
|                                                     |               | 10-009      |
| B002                                                | B-SMA-1       | 00-011(d)   |
| D002                                                | DP-SMA-0.4    | 21-021      |
| D004                                                | DP-SMA-1      | 21-011(k)   |
|                                                     |               | 21-021      |
| D006                                                | DP-SMA-2.35   | 21-021      |
|                                                     |               | 21-024(n)   |
| D008                                                | DP-SMA-4      | 21-021      |
| R001                                                | R-SMA-0.5     | C-00-020    |
| R003                                                | R-SMA-1.95    | 00-015      |
| R006                                                | R-SMA-2.5     | 00-011(a)   |
| <i>Total Number of Permitted Features / SMAs: 9</i> |               |             |
| <b>Enclosure 2: Pueblo Canyon</b>                   |               |             |
| P002A                                               | ACID-SMA-2.01 | 00-030(f)   |
| P004                                                | P-SMA-0.3     | 00-018(b)   |
| P007                                                | P-SMA-2.15    | 31-001      |
| P009                                                | P-SMA-3.05    | 00-018(a)   |
| <i>Total Number of Permitted Features / SMAs: 4</i> |               |             |



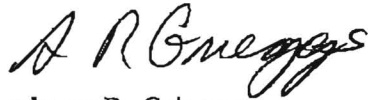
| Permitted Feature                                    | SMA Number   | Site Number |
|------------------------------------------------------|--------------|-------------|
| <b>Enclosure 3: Los Alamos Canyon</b>                |              |             |
| L002                                                 | LA-SMA-0.9   | 00-017      |
|                                                      |              | C-00-044    |
| L003                                                 | LA-SMA-1     | 00-017      |
|                                                      |              | C-00-044    |
| L004                                                 | LA-SMA-1.1   | 43-001(b2)  |
| L007                                                 | LA-SMA-2.3   | 01-001(b)   |
| L009                                                 | LA-SMA-3.9   | 01-001(g)   |
|                                                      |              | 01-006(a)   |
| L012                                                 | LA-SMA-5.01  | 01-001(d)   |
|                                                      |              | 01-006(h)   |
| L015                                                 | LA-SMA-5.31  | 41-002(c)   |
| L016                                                 | LA-SMA-5.33  | 32-004      |
| L022                                                 | LA-SMA-6.3   | 21-006(b)   |
| L022A                                                | LA-SMA-6.31  | 21-027(a)   |
| L023                                                 | LA-SMA-6.32  | 21-021      |
| L024                                                 | LA-SMA-6.34  | 21-021      |
|                                                      |              | 21-022(h)   |
| L025                                                 | LA-SMA-6.36  | 21-021      |
|                                                      |              | 21-024(a)   |
| L026                                                 | LA-SMA-6.38  | 21-021      |
|                                                      |              | 21-024(c)   |
| L027                                                 | LA-SMA-6.395 | 21-021      |
|                                                      |              | 21-024(j)   |
| L028                                                 | LA-SMA-6.5   | 21-021      |
|                                                      |              | 21-024(i)   |
| L030                                                 | LA-SMA-10.11 | 53-002(a)   |
| <i>Total Number of Permitted Features / SMAs: 17</i> |              |             |

| Permitted Feature                                    | SMA Number  | Site Number |
|------------------------------------------------------|-------------|-------------|
| <b>Enclosure 4: Sandia Canyon</b>                    |             |             |
| S003A                                                | S-SMA-2.01  | 03-052(b)   |
| S004                                                 | S-SMA-2.8   | 03-014(c2)  |
| S005                                                 | S-SMA-3.51  | 03-009(l)   |
| S005A                                                | S-SMA-3.52  | 03-021      |
| S005B                                                | S-SMA-3.53  | 03-014(b2)  |
| S007                                                 | S-SMA-3.7   | 53-012(e)   |
| S008                                                 | S-SMA-3.71  | 53-001(a)   |
| S009                                                 | S-SMA-3.72  | 53-001(b)   |
| S011                                                 | S-SMA-4.1   | 53-014      |
| S014                                                 | S-SMA-5.2   | 20-003(c)   |
| <i>Total Number of Permitted Features / SMAs: 10</i> |             |             |
| <b>Enclosure 5: Mortandad Canyon</b>                 |             |             |
| C010                                                 | CDB-SMA-4   | 54-017      |
|                                                      |             | 54-018      |
|                                                      |             | 54-020      |
| M002                                                 | M-SMA-1.2   | 03-049(a)   |
| M002A                                                | M-SMA-1.21  | 03-049(e)   |
| M004                                                 | M-SMA-3.1   | 48-001      |
|                                                      |             | 48-007(b)   |
| M008                                                 | M-SMA-6     | 35-016(h)   |
| M009                                                 | M-SMA-7     | 35-016(g)   |
| M010                                                 | M-SMA-7.9   | 50-006(d)   |
| M012                                                 | M-SMA-10    | 35-008      |
|                                                      |             | 35-014(e)   |
| M012A                                                | M-SMA-10.01 | 35-016(e)   |
| M014                                                 | M-SMA-11.1  | 35-016(o)   |
| M018                                                 | M-SMA-12.7  | 05-002      |
|                                                      |             | 05-005(a)   |
|                                                      |             | 05-006(b)   |
|                                                      |             | 05-006(e)   |
| M019                                                 | M-SMA-12.8  | 05-001(a)   |
|                                                      |             | 05-002      |
| M020                                                 | M-SMA-12.9  | 05-001(b)   |
|                                                      |             | 05-002      |
| M022                                                 | M-SMA-13    | 05-001(c)   |
| <i>Total Number of Permitted Features / SMAs: 14</i> |             |             |

| Permitted Feature                             | SMA Number     | Site Number |
|-----------------------------------------------|----------------|-------------|
| Enclosure 6: Ten-Site Canyon                  |                |             |
| T001                                          | PRATT-SMA-1.05 | 35-003(h)   |
|                                               |                | 35-003(p)   |
|                                               |                | 35-003(r)   |
|                                               |                | 35-004(h)   |
|                                               |                | 35-009(d)   |
|                                               |                | 35-016(k)   |
|                                               |                | 35-016(l)   |
|                                               |                | 35-016(m)   |
| T002                                          | T-SMA-1        | 50-006(a)   |
|                                               |                | 50-009      |
| T003                                          | T-SMA-2.5      | 35-014(g3)  |
| T004                                          | T-SMA-2.85     | 35-014(g)   |
|                                               |                | 35-016(n)   |
| T005                                          | T-SMA-3        | 35-016(b)   |
| T006                                          | T-SMA-4        | 35-004(a)   |
|                                               |                | 35-009(a)   |
|                                               |                | 35-016(c)   |
|                                               |                | 35-016(d)   |
| T007                                          | T-SMA-5        | 35-004(a)   |
|                                               |                | 35-009(a)   |
|                                               |                | 35-016(a)   |
|                                               |                | 35-016(q)   |
| T008                                          | T-SMA-6.8      | 35-010(e)   |
| T009                                          | T-SMA-7        | 04-003(b)   |
| T010                                          | T-SMA-7.1      | 04-001      |
|                                               |                | 04-002      |
| Total Number of Permitted Features / SMAs: 10 |                |             |
| Enclosure 7: Pajarito Canyon                  |                |             |
|                                               |                |             |
| J027                                          | PJ-SMA-20      | 54-017      |
| Total Number of Permitted Features / SMAs: 1  |                |             |

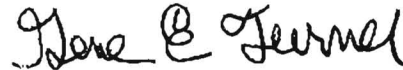
Please contact Terrill Lemke at (505) 665-2397 of the Water Quality and RCRA Group (ENV-RCRA) if you have questions.

Sincerely,



Anthony R. Grieggs  
Group Leader  
Water Quality & RCRA Group  
Los Alamos National Laboratory

Sincerely,



Gene E. Turner  
Environmental Permitting Manager  
Environmental Projects Office  
Los Alamos Site Office  
National Nuclear Security Administration

ARG:GET:CH/lm

Enclosures: a/s

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Gene Turner, LASO-EO, w/enc., A316  
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Suzanne Coyne, IRM-DCS, w/enc., K490  
ENV-RCRA File, w/enc., K490  
IRM-RMMSO, w/enc., A150

## ENCLOSURE 1

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### Certification of Completion of Baseline Control Measures for 9 Site Monitoring Areas in Bayo, DP, and Rendija Canyons in the Los Alamos/Pueblo Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294

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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759**

| <b>PERMITTED FEATURE</b> | <b>SITE MONITORING AREA</b> |
|--------------------------|-----------------------------|
| B001                     | B-SMA-0.5                   |
| B002                     | B-SMA-1                     |
| D002                     | DP-SMA-0.4                  |
| D004                     | DP-SMA-1                    |
| D006                     | DP-SMA-2.35                 |
| D008                     | DP-SMA-4                    |
| J027                     | PJ-SMA-20                   |
| R001                     | R-SMA-0.5                   |
| R003                     | R-SMA-1.95                  |
| R006                     | R-SMA-2.5                   |

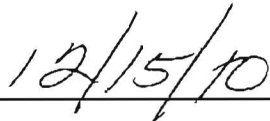
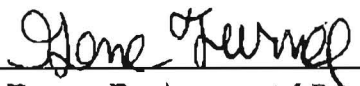
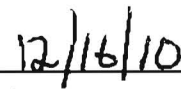
**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759****CERTIFICATION STATEMENT OF AUTHORIZATION**

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"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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory

  
Date  
Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration  
Date



PF: B001

SMA: B-SMA-0.5

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| B00103010007 | Berms                   | Earthen Berm                              | 7411-1.JPG |    | X   |     | X  |
| B00103010006 | Berms                   | Earthen Berm                              | 7411-3.JPG |    |     | X   | X  |
| B00104040003 | Channel/Swale           | Culvert                                   | 7411-5.JPG | X  |     | X   |    |
| B00104010005 | Channel/Swale           | Earthen Channel/Swale                     | 7411-5.JPG | X  |     | X   |    |
| B00106010008 | Check Dam               | Rock Check Dam                            | 7411-4.JPG |    | X   |     | X  |
| B00102020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7411-2.JPG | X  |     |     |    |
| B00102010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7411-2.JPG | X  |     |     |    |

Comments

None applicable.



PF: B001

SMA: B-SMA-0.5



Photo 7411-1.JPG (taken 07/30/10) B00103010007 : Berms - Earthen Berm.



Photo 7411-2.JPG (taken 07/30/10) B00102010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; B00102020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: B001

SMA: B-SMA-0.5



Photo 7411-3.JPG (taken 07/30/10) B00103010006 : Berms - Earthen Berm.



Photo 7411-4.JPG (taken 07/30/10) B00106010008 : Check Dam - Rock Check Dam.



**PF:** B001

**SMA:** B-SMA-0.5



Photo 7411-5.JPG (taken 07/30/10) B00104010005 : Channel/Swale - Earthen Channel/Swale; B00104040003 : Channel/Swale - Culvert.



PF: B002

SMA: B-SMA-1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Check Dam               |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| B00206010006 | Check Dam               | Rock Check Dam                            | 7412-5.JPG |    | X   |     | X  |
| B00206010003 | Check Dam               | Rock Check Dam                            | 7412-2.JPG |    |     | X   | X  |
| B00206010005 | Check Dam               | Rock Check Dam                            | 7412-1.JPG |    | X   |     | X  |
| B00206010004 | Check Dam               | Rock Check Dam                            | 7412-3.JPG |    |     | X   | X  |
| B00206010007 | Check Dam               | Rock Check Dam                            | 7412-6.JPG |    | X   |     | X  |
| B00202020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7412-4.JPG | X  |     |     |    |
| B00202010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7412-1.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7412-1.JPG (taken 07/29/10) B00202010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; B00206010005 : Check Dam - Rock Check Dam.



PF: B002

SMA: B-SMA-1



Photo 7412-2.JPG (taken 07/29/10) B00206010003 : Check Dam - Rock Check Dam.



Photo 7412-3.JPG (taken 07/29/10) B00206010004 : Check Dam - Rock Check Dam.



PF: B002

SMA: B-SMA-1



Photo 7412-4.JPG (taken 07/29/10) B00202020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



Photo 7412-5.JPG (taken 07/29/10) B00206010006 : Check Dam - Rock Check Dam.



PF: B002

SMA: B-SMA-1



Photo 7412-6.JPG (taken 07/29/10) B00206010007 : Check Dam - Rock Check Dam.



**PF: D002**

**SMA: DP-SMA-0.4**

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      |                       | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| D00203060005 | Berms                   | Straw Wattles                           | 7413-3.JPG |    |     | X   | X  |
| D00203060007 | Berms                   | Straw Wattles                           | 7413-4.JPG |    | X   |     | X  |
| D00204040003 | Channel/Swale           | Culvert                                 | 7413-2.JPG | X  |     | X   |    |
| D00204010002 | Channel/Swale           | Earthen Channel/Swale                   | 7413-1.JPG | X  |     | X   |    |
| D00204060006 | Channel/Swale           | Rip Rap                                 | 7413-2.JPG |    |     | X   | X  |
| D00206030004 | Check Dam               | Juniper Bales                           | 7413-3.JPG |    |     | X   | X  |
| D00202010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7413-4.JPG | X  |     |     |    |

**Comments**

None applicable.



PF: D002

SMA: DP-SMA-0.4



Photo 7413-1.JPG (taken 07/29/10) D00204010002 : Channel/Swale - Earthen Channel/Swale.



Photo 7413-2.JPG (taken 07/29/10) D00204040003 : Channel/Swale - Culvert; D00204060006 : Channel/Swale - Rip Rap.



PF: D002

SMA: DP-SMA-0.4



Photo 7413-3.JPG (taken 07/29/10) D00203060005 : Berms - Straw Wattles; D00206030004 : Check Dam - Juniper Bales.



Photo 7413-4.JPG (taken 07/29/10) D00202010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; D00203060007 : Berms - Straw Wattles.



PF: D004

SMA: DP-SMA-1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| D00403010002 | Berms                   | Earthen Berm                            | 8656-6.JPG |    |     | X   | X  |
| D00403120009 | Berms                   | Rock Berm                               | 8656-5.JPG |    | X   |     | X  |
| D00404020005 | Channel/Swale           | Concrete/Asphalt Channel/Swale          | 8656-7.JPG | X  |     | X   |    |
| D00404060004 | Channel/Swale           | Rip Rap                                 | 8656-9.JPG | X  |     | X   |    |
| D00406030008 | Check Dam               | Juniper Bales                           | 8656-4.JPG |    | X   |     | X  |
| D00406030006 | Check Dam               | Juniper Bales                           | 8656-3.JPG |    | X   |     | X  |
| D00406030007 | Check Dam               | Juniper Bales                           | 8656-2.JPG |    | X   |     | X  |
| D00402010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8656-1.JPG | X  |     |     |    |
| D00401010010 | Seed and Mulch          | Seed and Wood Mulch                     | 8656-8.JPG | X  |     |     |    |

Comments

None applicable.



PF: D004

SMA: DP-SMA-1



Photo 8656-1.JPG (taken 07/29/10) D00402010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 8656-2.JPG (taken 07/29/10) D00406030007 : Check Dam - Juniper Bales.



PF: D004

SMA: DP-SMA-1



Photo 8656-3.JPG (taken 07/29/10) D00406030006 : Check Dam - Juniper Bales.



Photo 8656-4.JPG (taken 07/29/10) D00406030008 : Check Dam - Juniper Bales.



PF: D004

SMA: DP-SMA-1



Photo 8656-5.JPG (taken 07/29/10) D00403120009 : Berms - Rock Berm.



Photo 8656-6.JPG (taken 07/29/10) D00403010002 : Berms - Earthen Berm.



PF: D004

SMA: DP-SMA-1



Photo 8656-7.JPG (taken 07/29/10) D00404020005 : Channel/Swale - Concrete/Asphalt Channel/Swale.



Photo 8656-8.JPG (taken 07/29/10) D00401010010 : Seed and Mulch - Seed and Wood Mulch.



PF: D004

SMA: DP-SMA-1



Photo 8656-9.JPG (taken 07/29/10) D00404060004 : Channel/Swale - Rip Rap.



PF: D006

SMA: DP-SMA-2.35

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| D00603020002 | Berms                   | Base Course Berm                        | 7415-3.JPG |    | X   |     | X  |
| D00603060003 | Berms                   | Straw Wattles                           | 7415-1.JPG |    |     | X   | X  |
| D00604060004 | Channel/Swale           | Rip Rap                                 | 7415-4.JPG | X  | X   |     |    |
| D00602010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7415-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7415-1.JPG (taken 07/29/10) D00603060003 : Berms - Straw Wattles.



PF: D006

SMA: DP-SMA-2.35



Photo 7415-2.JPG (taken 07/29/10) D00602010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7415-3.JPG (taken 07/29/10) D00603020002 : Berms - Base Course Berm.



PF: D006

SMA: DP-SMA-2.35



Photo 7415-4.JPG (taken 07/29/10) D00604060004 : Channel/Swale - Rip Rap.



**PF: D008**

**SMA: DP-SMA-4**

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Check Dam               |                      |                       | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|--------------|----|-----|-----|----|
| D00803010007 | Berms                   | Earthen Berm                              | 11656-1r.JPG |    | X   |     | X  |
| D00803010006 | Berms                   | Earthen Berm                              | 11656-1r.JPG |    |     | X   | X  |
| D00806010005 | Check Dam               | Rock Check Dam                            | 7416-3.JPG   |    |     | X   | X  |
| D00802020004 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7416-3.JPG   | X  |     |     |    |
| D00802010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7416-2.JPG   | X  |     |     |    |
| D00801010002 | Seed and Mulch          | Seed and Wood Mulch                       | 7416-1.JPG   | X  |     |     |    |

**Comments**

None applicable.



PF: D008

SMA: DP-SMA-4



Photo 11656-1r.JPG (taken 11/05/10) D00803010006 : Berms - Earthen Berm; D00803010007 : Berms - Earthen Berm.



Photo 7416-1.JPG (taken 07/29/10) D00801010002 : Seed and Mulch - Seed and Wood Mulch.



PF: D008

SMA: DP-SMA-4



Photo 7416-2.JPG (taken 07/29/10) D00802010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7416-3.JPG (taken 07/29/10) D00802020004 : Established Vegetation - Permanent Vegetation Forested/Needle Cast; D00806010005 : Check Dam - Rock Check Dam.



PF: J027

SMA: PJ-SMA-20

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Cap                     | X                    |                       | X                    |                       |
| Channel/Swale           | X                    | X                     |                      |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| J02703090001 | Berms                   | Curbing                                 | 8508-2r.JPG |    | X   |     | X  |
| J02708030005 | Cap                     | Concrete/Asphalt Cap                    | 8508-1r.JPG | X  |     | X   |    |
| J02704060006 | Channel/Swale           | Rip Rap                                 | 8508-3r.JPG | X  | X   |     |    |
| J02702010004 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8508-4r.JPG | X  |     |     |    |

Comments

None applicable.

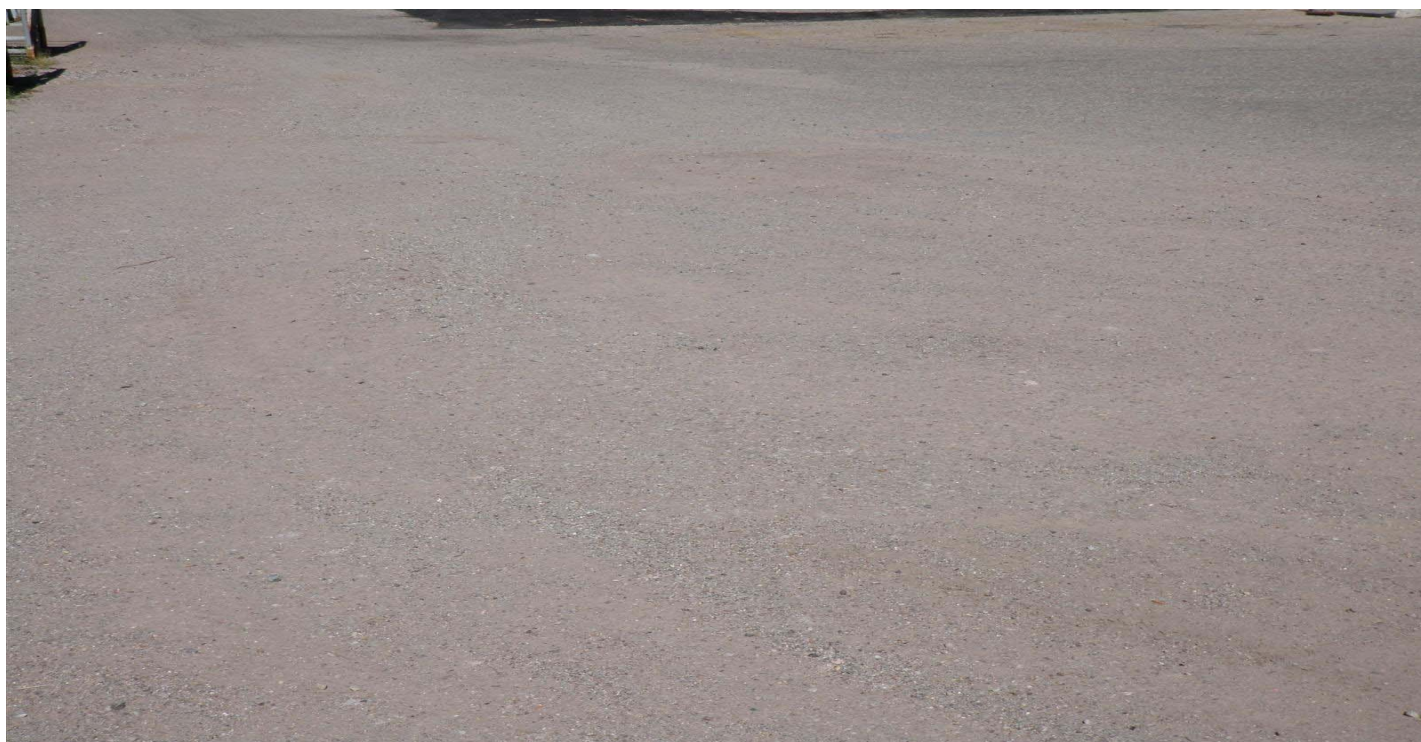


Photo 8508-1r.JPG (taken 08/20/10) J02708030005 : Cap - Concrete/Asphalt Cap.



PF: J027

SMA: PJ-SMA-20



Photo 8508-2r.JPG (taken 08/20/10) J02703090001 : Berms - Curbing.



Photo 8508-3r.JPG (taken 08/20/10) J02704060006 : Channel/Swale - Rip Rap.



**PF:** J027

**SMA:** PJ-SMA-20



Photo 8508-4r.JPG (taken 08/20/10) J02702010004 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: R001

SMA: R-SMA-0.5

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| R00103030005 | Berms                   | Log Berm                                  | 7441-2.JPG |    |     | X   | X  |
| R00103030006 | Berms                   | Log Berm                                  | 7441-2.JPG |    | X   |     | X  |
| R00103030004 | Berms                   | Log Berm                                  | 7441-1.JPG |    | X   |     | X  |
| R00103060008 | Berms                   | Straw Wattles                             | 7441-4.JPG |    |     | X   | X  |
| R00103060007 | Berms                   | Straw Wattles                             | 7441-1.JPG |    |     | X   | X  |
| R00102020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7441-3.JPG | X  |     |     |    |
| R00102010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7441-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7441-1.JPG (taken 08/03/10) R00103030004 : Berms - Log Berm; R00103060007 : Berms - Straw Wattles.



PF: R001

SMA: R-SMA-0.5



Photo 7441-2.JPG (taken 08/03/10) R00103030005 : Berms - Log Berm; R00103030006 : Berms - Log Berm.

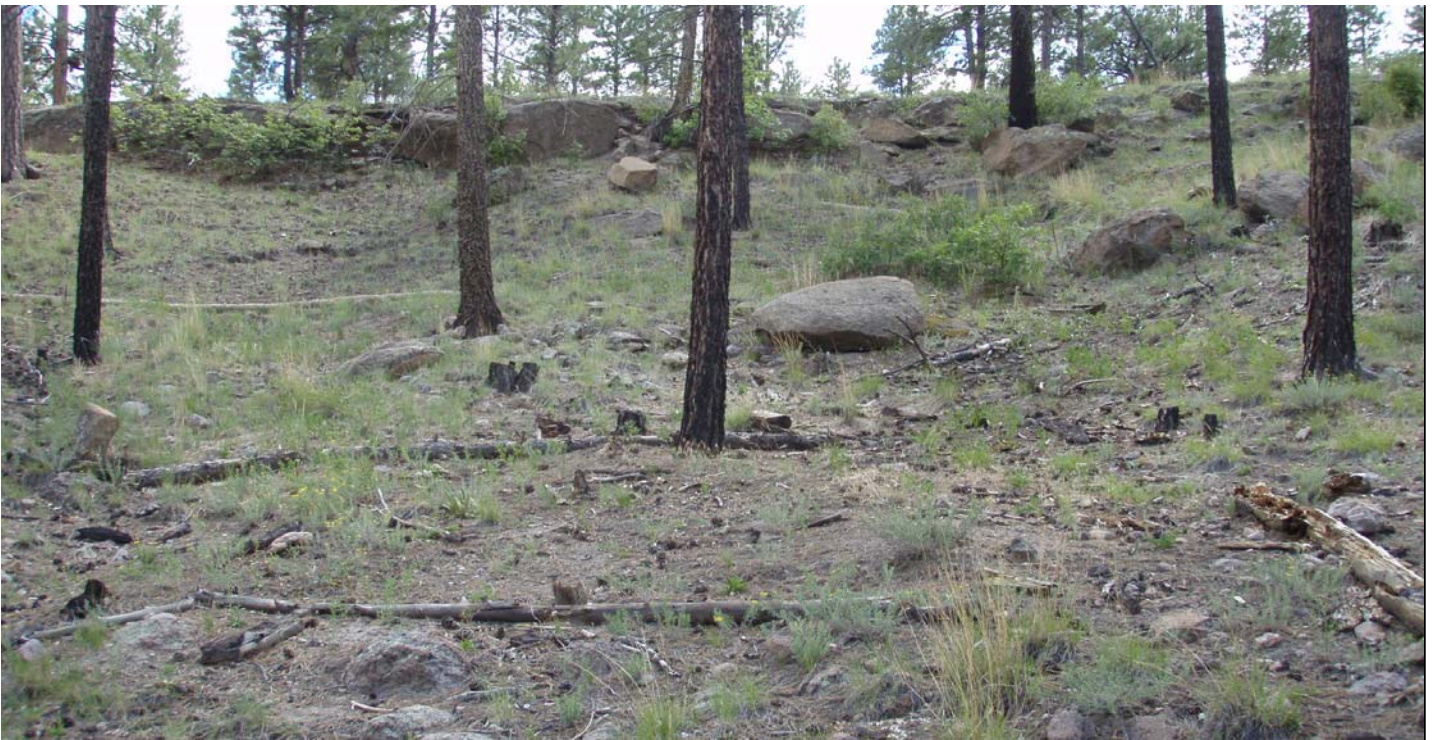


Photo 7441-3.JPG (taken 08/03/10) R00102010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; R00102020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: R001

SMA: R-SMA-0.5



Photo 7441-4.JPG (taken 08/03/10) R00103060008 : Berms - Straw Wattles.



PF: R003

SMA: R-SMA-1.95

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| R00303010006 | Berms                   | Earthen Berm                            | 7442-1.JPG |    | X   |     | X  |
| R00303060004 | Berms                   | Straw Wattles                           | 7442-5.JPG |    | X   |     | X  |
| R00303060005 | Berms                   | Straw Wattles                           | 7442-6.JPG |    | X   |     | X  |
| R00304040002 | Channel/Swale           | Culvert                                 | 7442-4.JPG | X  |     | X   |    |
| R00304010003 | Channel/Swale           | Earthen Channel/Swale                   | 7442-3.JPG | X  |     | X   |    |
| R00302010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7442-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7442-1.JPG (taken 08/03/10) R00303010006 : Berms - Earthen Berm.



PF: R003

SMA: R-SMA-1.95



Photo 7442-2.JPG (taken 08/03/10) R00302010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7442-3.JPG (taken 08/03/10) R00304010003 : Channel/Swale - Earthen Channel/Swale.



PF: R003

SMA: R-SMA-1.95



Photo 7442-4.JPG (taken 08/03/10) R00304040002 : Channel/Swale - Culvert.



Photo 7442-5.JPG (taken 08/03/10) R00303060004 : Berms - Straw Wattles.



PF: R003

SMA: R-SMA-1.95



Photo 7442-6.JPG (taken 08/03/10) R00303060005 : Berms - Straw Wattles.



PF: R006

SMA: R-SMA-2.5

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|-------------|----|-----|-----|----|
| R00604060004 | Channel/Swale           | Rip Rap                                   | 7598-1r.JPG | X  |     | X   |    |
| R00606010006 | Check Dam               | Rock Check Dam                            | 7598-1r.JPG |    |     | X   | X  |
| R00606010003 | Check Dam               | Rock Check Dam                            | 7446-1.JPG  |    | X   |     | X  |
| R00606010005 | Check Dam               | Rock Check Dam                            | 7598-1r.JPG |    |     | X   | X  |
| R00602020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7446-3.JPG  | X  |     |     |    |
| R00602010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7446-2.JPG  | X  |     |     |    |

Comments

None applicable.



Photo 7446-1.JPG (taken 07/30/10) R00606010003 : Check Dam - Rock Check Dam.



PF: R006

SMA: R-SMA-2.5



Photo 7446-2.JPG (taken 07/30/10) R00602010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7446-3.JPG (taken 07/30/10) R00602020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: R006

SMA: R-SMA-2.5



Photo 7598-1r.JPG (taken 08/13/10) R00604060004 : Channel/Swale - Rip Rap; R00606010005 : Check Dam - Rock Check Dam; R00606010006 : Check Dam - Rock Check Dam.



## ENCLOSURE 2

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### Certification of Completion of Baseline Control Measures for 4 Site Monitoring Areas in Pueblo Canyon in the Los Alamos/Pueblo Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294



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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759**

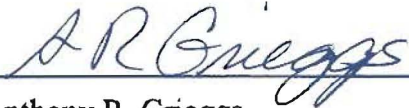
| <b>PERMITTED FEATURE</b> | <b>SITE MONITORING AREA</b> |
|--------------------------|-----------------------------|
| P002A                    | ACID-SMA-2.01               |
| P004                     | P-SMA-0.3                   |
| P007                     | P-SMA-2.15                  |
| P009                     | P-SMA-3.05                  |



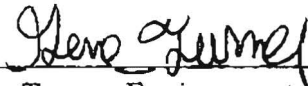
**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759****CERTIFICATION STATEMENT OF AUTHORIZATION**

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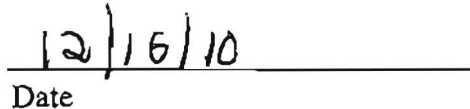
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory

  
Date

Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration

  
Date



PF: P002A

SMA: ACID-SMA-2.01

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       | X                    |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|---------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| P002A03010004 | Berms                   | Earthen Berm                            | 7410-2.JPG |    |     | X   | X  |
| P002A03060005 | Berms                   | Straw Wattles                           | 7410-3.JPG |    | X   |     | X  |
| P002A04060002 | Channel/Swale           | Rip Rap                                 | 7410-1.JPG | X  |     | X   |    |
| P002A02010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7410-4.JPG | X  |     |     |    |
| P002A01060003 | Seed and Mulch          | Erosion Control Blanket                 | 7410-2.JPG | X  |     |     |    |

Comments

Run-on control function managed through use of earth berm and rip rap. Run-on function of seed and mulch not needed.



Photo 7410-1.JPG (taken 07/30/10) P002A04060002 : Channel/Swale - Rip Rap.



PF: P002A

SMA: ACID-SMA-2.01



Photo 7410-2.JPG (taken 07/30/10) P002A01060003 : Seed and Mulch - Erosion Control Blanket;  
P002A03010004 : Berms - Earthen Berm.



Photo 7410-3.JPG (taken 07/30/10) P002A03060005 : Berms - Straw Wattles.



PF: P002A

SMA: ACID-SMA-2.01



Photo 7410-4.JPG (taken 07/30/10) P002A02010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: P004

SMA: P-SMA-0.3

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| P00403010006 | Berms                   | Earthen Berm                            | 10560-1r.JPG |    | X   |     | X  |
| P00403010007 | Berms                   | Earthen Berm                            | 10560-5r.JPG |    |     | X   | X  |
| P00403010002 | Berms                   | Earthen Berm                            | 10560-6r.JPG |    |     | X   | X  |
| P00404040003 | Channel/Swale           | Culvert                                 | 10560-3r.JPG | X  |     | X   |    |
| P00404050005 | Channel/Swale           | Water Bar                               | 10560-4r.JPG | X  |     | X   |    |
| P00402010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 10560-2r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 10560-1r.JPG (taken 09/14/10) P00403010006 : Berms - Earthen Berm.



PF: P004

SMA: P-SMA-0.3



Photo 10560-2r.JPG (taken 09/14/10) P00402010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 10560-3r.JPG (taken 09/14/10) P00404040003 : Channel/Swale - Culvert.



PF: P004

SMA: P-SMA-0.3



Photo 10560-4r.JPG (taken 09/14/10) P00404050005 : Channel/Swale - Water Bar.



Photo 10560-5r.JPG (taken 09/14/10) P00403010007 : Berms - Earthen Berm.



PF: P004

SMA: P-SMA-0.3



Photo 10560-6r.JPG (taken 09/14/10) P00403010002 : Berms - Earthen Berm.



PF: P007

SMA: P-SMA-2.15

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale           | X                    | X                     |                      |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       | X                    |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                              | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|----------------------------------------------|------------|----|-----|-----|----|
| P00704060003 | Channel/Swale           | Rip Rap                                      | 7460-3.JPG | X  |     | X   |    |
| P00704060006 | Channel/Swale           | Rip Rap                                      | 7460-1.JPG | X  | X   |     |    |
| P00706010005 | Check Dam               | Rock Check Dam                               | 7460-1.JPG |    | X   |     | X  |
| P00706010004 | Check Dam               | Rock Check Dam                               | 7460-4.JPG |    |     | X   | X  |
| P00702010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs      | 7460-5.JPG | X  |     |     |    |
| P00702030002 | Established Vegetation  | Permanent Vegetation Vegetative Buffer Strip | 7460-2.JPG | X  |     | X   |    |

Comments

None applicable.



Photo 7460-1.JPG (taken 07/30/10) P00704060006 : Channel/Swale - Rip Rap; P00706010005 : Check Dam - Rock Check Dam.



PF: P007

SMA: P-SMA-2.15



Photo 7460-2.JPG (taken 07/30/10) P00702030002 : Established Vegetation - Permanent Vegetation Vegetative Buffer Strip.



Photo 7460-3.JPG (taken 07/30/10) P00704060003 : Channel/Swale - Rip Rap.



PF: P007

SMA: P-SMA-2.15



Photo 7460-4.JPG (taken 07/30/10) P00706010004 : Check Dam - Rock Check Dam.



Photo 7460-5.JPG (taken 07/30/10) P00702010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: P009

SMA: P-SMA-3.05

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| P00903020007 | Berms                   | Base Course Berm                        | 10559-3r.JPG |    | X   |     | X  |
| P00903010008 | Berms                   | Earthen Berm                            | 10559-4r.JPG |    | X   |     | X  |
| P00903010009 | Berms                   | Earthen Berm                            | 10559-4r.JPG |    | X   |     | X  |
| P00904050005 | Channel/Swale           | Water Bar                               | 10559-1r.JPG | X  |     | X   |    |
| P00904050006 | Channel/Swale           | Water Bar                               | 10559-1r.JPG | X  |     | X   |    |
| P00902010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 10559-2r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 10559-1r.JPG (taken 09/14/10) P00904050005 : Channel/Swale - Water Bar; P00904050006 : Channel/Swale - Water Bar.



PF: P009

SMA: P-SMA-3.05



Photo 10559-2r.JPG (taken 09/14/10) P00902010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 10559-3r.JPG (taken 09/14/10) P00903020007 : Berms - Base Course Berm.



PF: P009

SMA: P-SMA-3.05



Photo 10559-4r.JPG (taken 09/14/10) P00903010008 : Berms - Earthen Berm; P00903010009 : Berms - Earthen Berm.



## ENCLOSURE 3

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### Certification of Completion of Baseline Control Measures for 17 Site Monitoring Areas in Los Alamos Canyon in the Los Alamos/Pueblo Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294



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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759**

| PERMITTED FEATURE | SITE MONITORING AREA |
|-------------------|----------------------|
| L002              | LA-SMA-0.9           |
| L003              | LA-SMA-1             |
| L004              | LA-SMA-1.1           |
| L030              | LA-SMA-10.11         |
| L007              | LA-SMA-2.3           |
| L009              | LA-SMA-3.9           |
| L012              | LA-SMA-5.01          |
| L015              | LA-SMA-5.31          |
| L016              | LA-SMA-5.33          |
| L022              | LA-SMA-6.3           |
| L022A             | LA-SMA-6.31          |
| L023              | LA-SMA-6.32          |
| L024              | LA-SMA-6.34          |
| L025              | LA-SMA-6.36          |
| L026              | LA-SMA-6.38          |
| L027              | LA-SMA-6.395         |
| L028              | LA-SMA-6.5           |

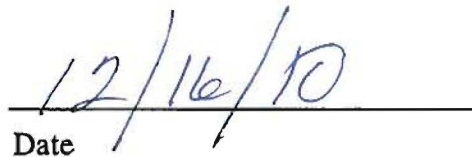


**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759****CERTIFICATION STATEMENT OF AUTHORIZATION**

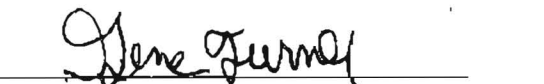
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



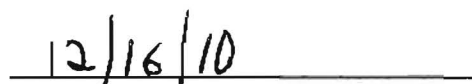
Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory



Date



Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration



Date



PF: L002

SMA: LA-SMA-0.9

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| L00203090002 | Berms                   | Curbing                                 | 10562-5r.JPG |    |     | X   | X  |
| L00203090003 | Berms                   | Curbing                                 | 10562-6r.JPG |    |     | X   | X  |
| L00203100010 | Berms                   | Gravel Bags                             | 10562-5r.JPG |    |     | X   | X  |
| L00203060008 | Berms                   | Straw Wattles                           | 10562-2r.JPG |    | X   |     | X  |
| L00203060009 | Berms                   | Straw Wattles                           | 10562-1r.JPG |    | X   |     | X  |
| L00203060011 | Berms                   | Straw Wattles                           | 10562-3r.JPG |    | X   |     | X  |
| L00204040004 | Channel/Swale           | Culvert                                 | 10562-5r.JPG | X  |     | X   |    |
| L00202010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 10562-4r.JPG | X  |     |     |    |

**Comments**

None applicable.



PF: L002

SMA: LA-SMA-0.9



Photo 10562-1r.JPG (taken 09/14/10) L00203060009 : Berms - Straw Wattles.



Photo 10562-2r.JPG (taken 09/14/10) L00203060008 : Berms - Straw Wattles.



PF: L002

SMA: LA-SMA-0.9



Photo 10562-3r.JPG (taken 09/14/10) L00203060011 : Berms - Straw Wattles.



Photo 10562-4r.JPG (taken 09/14/10) L00202010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: L002

SMA: LA-SMA-0.9



Photo 10562-5r.JPG (taken 09/14/10) L00203090002 : Berms - Curbing; L00203100010 : Berms - Gravel Bags; L00204040004 : Channel/Swale - Culvert.



Photo 10562-6r.JPG (taken 09/14/10) L00203090003 : Berms - Curbing.



PF: L003

SMA: LA-SMA-1

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| L00303120012 | Berms                   | Rock Berm                               | 7418-6.JPG   |    | X   |     | X  |
| L00303060008 | Berms                   | Straw Wattles                           | 7418-3.JPG   |    |     | X   | X  |
| L00303060006 | Berms                   | Straw Wattles                           | 11806-1r.JPG |    |     | X   | X  |
| L00303060007 | Berms                   | Straw Wattles                           | 11806-1r.JPG |    |     | X   | X  |
| L00304020005 | Channel/Swale           | Concrete/Asphalt Channel/Swale          | 7418-1.JPG   | X  |     | X   |    |
| L00304040004 | Channel/Swale           | Culvert                                 | 7418-2.JPG   | X  |     | X   |    |
| L00306010011 | Check Dam               | Rock Check Dam                          | 7418-6.JPG   |    | X   |     | X  |
| L00306010010 | Check Dam               | Rock Check Dam                          | 7418-6.JPG   |    | X   |     | X  |
| L00302010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7418-5.JPG   | X  |     |     |    |
| L00301010009 | Seed and Mulch          | Seed and Wood Mulch                     | 7418-3.JPG   | X  |     |     |    |

**Comments**

None applicable.



PF: L003

SMA: LA-SMA-1



Photo 11806-1r.JPG (taken 07/28/10) L00303060006 : Berms - Straw Wattles; L00303060007 : Berms - Straw Wattles.



Photo 7418-1.JPG (taken 07/28/10) L00304020005 : Channel/Swale - Concrete/Asphalt Channel/Swale.



PF: L003

SMA: LA-SMA-1



Photo 7418-2.JPG (taken 07/28/10) L00304040004 : Channel/Swale - Culvert.



Photo 7418-3.JPG (taken 07/28/10) L00301010009 : Seed and Mulch - Seed and Wood Mulch; L00303060008 : Berms - Straw Wattles.



PF: L003

SMA: LA-SMA-1



Photo 7418-5.JPG (taken 07/28/10) L00302010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7418-6.JPG (taken 07/28/10) L00303120012 : Berms - Rock Berm; L00306010010 : Check Dam - Rock Check Dam; L00306010011 : Check Dam - Rock Check Dam.



PF: L004

SMA: LA-SMA-1.1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale           | X                    | X                     |                      |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       | X                    |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                              | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|----------------------------------------------|--------------|----|-----|-----|----|
| L00404060003 | Channel/Swale           | Rip Rap                                      | 11612-2r.JPG | X  | X   |     |    |
| L00406010004 | Check Dam               | Rock Check Dam                               | 11612-1r.JPG |    | X   |     | X  |
| L00402010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs      | 7419-3.JPG   | X  |     |     |    |
| L00402030006 | Established Vegetation  | Permanent Vegetation Vegetative Buffer Strip | 7419-4.JPG   | X  |     | X   |    |

Comments

None applicable.



Photo 11612-1r.JPG (taken 10/28/10) L00406010004 : Check Dam - Rock Check Dam.



PF: L004

SMA: LA-SMA-1.1



Photo 11612-2r.JPG (taken 10/28/10) L00404060003 : Channel/Swale - Rip Rap.



Photo 7419-3.JPG (taken 07/28/10) L00402010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



**PF: L004**

**SMA: LA-SMA-1.1**



Photo 7419-4.JPG (taken 07/28/10) L00402030006 : Established Vegetation - Permanent Vegetation Vegetative Buffer Strip.



PF: L030

SMA: LA-SMA-10.11

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale           | X                    | X                     |                      |                       |
| Check Dam               |                      | X                     |                      | X                     |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------|------------|----|-----|-----|----|
| L03004060003 | Channel/Swale           | Rip Rap         | 7439-2.JPG | X  | X   |     |    |
| L03004060009 | Channel/Swale           | Rip Rap         | 7439-1.JPG | X  | X   |     |    |
| L03006010001 | Check Dam               | Rock Check Dam  | 7439-1.JPG |    | X   |     | X  |

Comments

None applicable.



Photo 7439-1.JPG (taken 07/29/10) L03004060009 : Channel/Swale - Rip Rap; L03006010001 : Check Dam - Rock Check Dam.



PF: L030

SMA: LA-SMA-10.11



Photo 7439-2.JPG (taken 07/29/10) L03004060003 : Channel/Swale - Rip Rap.



PF: L007

SMA: LA-SMA-2.3

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L00703080002 | Berms                   | Retaining Wall                          | 7421-1.JPG |    |     | X   | X  |
| L00703060003 | Berms                   | Straw Wattles                           | 7421-1.JPG |    |     | X   | X  |
| L00703060004 | Berms                   | Straw Wattles                           | 7421-2.JPG |    | X   |     | X  |
| L00702010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7421-1.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7421-1.JPG (taken 07/28/10) L00702010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; L00703060003 : Berms - Straw Wattles; L00703080002 : Berms - Retaining Wall.



PF: L007

SMA: LA-SMA-2.3



Photo 7421-2.JPG (taken 07/28/10) L00703060004 : Berms - Straw Wattles.



PF: L009

SMA: LA-SMA-3.9

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L00903060003 | Berms                   | Straw Wattles                           | 7423-1.JPG |    | X   |     | X  |
| L00904040002 | Channel/Swale           | Culvert                                 | 7423-3.JPG | X  |     | X   |    |
| L00902010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7423-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7423-1.JPG (taken 07/28/10) L00903060003 : Berms - Straw Wattles.



PF: L009

SMA: LA-SMA-3.9



Photo 7423-2.JPG (taken 07/28/10) L00902010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7423-3.JPG (taken 07/28/10) L00904040002 : Channel/Swale - Culvert.



**PF: L012**

**SMA: LA-SMA-5.01**

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| L01203010007 | Berms                   | Earthen Berm                            | 7425-6.JPG   |    |     | X   | X  |
| L01203010004 | Berms                   | Earthen Berm                            | 7425-1.JPG   |    | X   |     | X  |
| L01203120010 | Berms                   | Rock Berm                               | 12128-1r.JPG |    |     | X   | X  |
| L01203060002 | Berms                   | Straw Wattles                           | 7425-5.JPG   |    |     | X   | X  |
| L01204060006 | Channel/Swale           | Rip Rap                                 | 7425-2.JPG   | X  | X   |     |    |
| L01204050008 | Channel/Swale           | Water Bar                               | 12128-3r.JPG | X  |     | X   |    |
| L01204050009 | Channel/Swale           | Water Bar                               | 12128-2r.JPG | X  |     | X   |    |
| L01202010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7425-4.JPG   | X  |     |     |    |
| L01201010005 | Seed and Mulch          | Seed and Wood Mulch                     | 7425-3.JPG   | X  |     |     |    |

**Comments**

None applicable.



PF: L012

SMA: LA-SMA-5.01



Photo 12128-1r.JPG (taken 12/06/10) L01203120010 : Berms - Rock Berm.



Photo 12128-2r.JPG (taken 12/06/10) L01204050009 : Channel/Swale - Water Bar.



PF: L012

SMA: LA-SMA-5.01



Photo 12128-3r.JPG (taken 12/06/10) L01204050008 : Channel/Swale - Water Bar.



Photo 7425-1.JPG (taken 07/28/10) L01203010004 : Berms - Earthen Berm.



PF: L012

SMA: LA-SMA-5.01



Photo 7425-2.JPG (taken 07/28/10) L01204060006 : Channel/Swale - Rip Rap.



Photo 7425-3.JPG (taken 07/28/10) L01201010005 : Seed and Mulch - Seed and Wood Mulch.



PF: L012

SMA: LA-SMA-5.01



Photo 7425-4.JPG (taken 07/28/10) L01202010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7425-5.JPG (taken 07/28/10) L01203060002 : Berms - Straw Wattles.



PF: L012

SMA: LA-SMA-5.01



Photo 7425-6.JPG (taken 07/28/10) L01203010007 : Berms - Earthen Berm.



PF: L015

SMA: LA-SMA-5.31

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Check Dam               |                      |                       | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L01503060004 | Berms                   | Straw Wattles                           | 7426-4.JPG |    | X   |     | X  |
| L01503060006 | Berms                   | Straw Wattles                           | 7426-4.JPG |    | X   |     | X  |
| L01503060005 | Berms                   | Straw Wattles                           | 7426-4.JPG |    | X   |     | X  |
| L01506010002 | Check Dam               | Rock Check Dam                          | 7426-1.JPG |    |     | X   | X  |
| L01502010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7426-3.JPG | X  |     |     |    |
| L01501010003 | Seed and Mulch          | Seed and Wood Mulch                     | 7426-2.JPG | X  |     |     |    |

Comments

None applicable.



PF: L015

SMA: LA-SMA-5.31



Photo 7426-1.JPG (taken 07/28/10) L01506010002 : Check Dam - Rock Check Dam.



Photo 7426-2.JPG (taken 07/28/10) L01501010003 : Seed and Mulch - Seed and Wood Mulch.



PF: L015

SMA: LA-SMA-5.31



Photo 7426-3.JPG (taken 07/28/10) L01502010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7426-4.JPG (taken 07/28/10) L01503060004 : Berms - Straw Wattles; L01503060005 : Berms - Straw Wattles; L01503060006 : Berms - Straw Wattles.



PF: L016

SMA: LA-SMA-5.33

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|--------------|----|-----|-----|----|
| L01603100005 | Berms                   | Gravel Bags                               | 7447-1.JPG   |    | X   |     | X  |
| L01603060008 | Berms                   | Straw Wattles                             | 11700-1r.JPG |    |     | X   | X  |
| L01602020004 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7447-2.JPG   | X  |     |     |    |

Comments

None applicable.



Photo 11700-1r.JPG (taken 11/15/10) L01603060008 : Berms - Straw Wattles.



PF: L016

SMA: LA-SMA-5.33



Photo 7447-1.JPG (taken 07/29/10) L01603100005 : Berms - Gravel Bags.



Photo 7447-2.JPG (taken 07/29/10) L01602020004 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: L022

SMA: LA-SMA-6.3

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L02203040005 | Berms                   | Asphalt Berm                            | 8655-4.JPG |    |     | X   | X  |
| L02206010004 | Check Dam               | Rock Check Dam                          | 8655-1.JPG |    | X   |     | X  |
| L02206010001 | Check Dam               | Rock Check Dam                          | 8655-2.JPG |    | X   |     | X  |
| L02202010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8655-3.JPG | X  |     |     |    |
| L02201010007 | Seed and Mulch          | Seed and Wood Mulch                     | 8655-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 8655-1.JPG (taken 07/28/10) L02206010004 : Check Dam - Rock Check Dam.



PF: L022

SMA: LA-SMA-6.3



Photo 8655-2.JPG (taken 07/28/10) L02206010001 : Check Dam - Rock Check Dam.



Photo 8655-3.JPG (taken 07/28/10) L02201010007 : Seed and Mulch - Seed and Wood Mulch; L02202010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: L022

SMA: LA-SMA-6.3



Photo 8655-4.JPG (taken 07/28/10) L02203040005 : Berms - Asphalt Berm.



PF: L022A

SMA: LA-SMA-6.31

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|---------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L022A03040002 | Berms                   | Asphalt Berm                            | 7431-2.JPG |    |     | X   | X  |
| L022A03060004 | Berms                   | Straw Wattles                           | 7431-3.JPG |    | X   |     | X  |
| L022A04030003 | Channel/Swale           | Rock Channel/Swale                      | 7431-4.JPG | X  |     | X   |    |
| L022A06010005 | Check Dam               | Rock Check Dam                          | 7431-1.JPG |    | X   |     | X  |
| L022A02010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7431-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7431-1.JPG (taken 07/29/10) L022A06010005 : Check Dam - Rock Check Dam.



PF: L022A

SMA: LA-SMA-6.31



Photo 7431-2.JPG (taken 07/29/10) L022A03040002 : Berms - Asphalt Berm.



Photo 7431-3.JPG (taken 07/29/10) L022A02010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; L022A03060004 : Berms - Straw Wattles.



PF: L022A

SMA: LA-SMA-6.31



Photo 7431-4.JPG (taken 07/29/10) L022A04030003 : Channel/Swale - Rock Channel/Swale.



PF: L023

SMA: LA-SMA-6.32

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L02303040002 | Berms                   | Asphalt Berm                            | 7432-1.JPG |    |     | X   | X  |
| L02303060004 | Berms                   | Straw Wattles                           | 7432-2.JPG |    | X   |     | X  |
| L02303060003 | Berms                   | Straw Wattles                           | 7432-2.JPG |    | X   |     | X  |
| L02302010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7432-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7432-1.JPG (taken 07/29/10) L02303040002 : Berms - Asphalt Berm.



PF: L023

SMA: LA-SMA-6.32



Photo 7432-2.JPG (taken 07/29/10) L02302010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; L02303060003 : Berms - Straw Wattles; L02303060004 : Berms - Straw Wattles.



PF: L024

SMA: LA-SMA-6.34

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L02403040003 | Berms                   | Asphalt Berm                            | 7433-3.JPG |    |     | X   | X  |
| L02403040004 | Berms                   | Asphalt Berm                            | 7433-2.JPG |    |     | X   | X  |
| L02406010005 | Check Dam               | Rock Check Dam                          | 7433-1.JPG |    | X   |     | X  |
| L02402010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7433-4.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7433-1.JPG (taken 07/29/10) L02406010005 : Check Dam - Rock Check Dam.



PF: L024

SMA: LA-SMA-6.34



Photo 7433-2.JPG (taken 07/29/10) L02403040004 : Berms - Asphalt Berm.

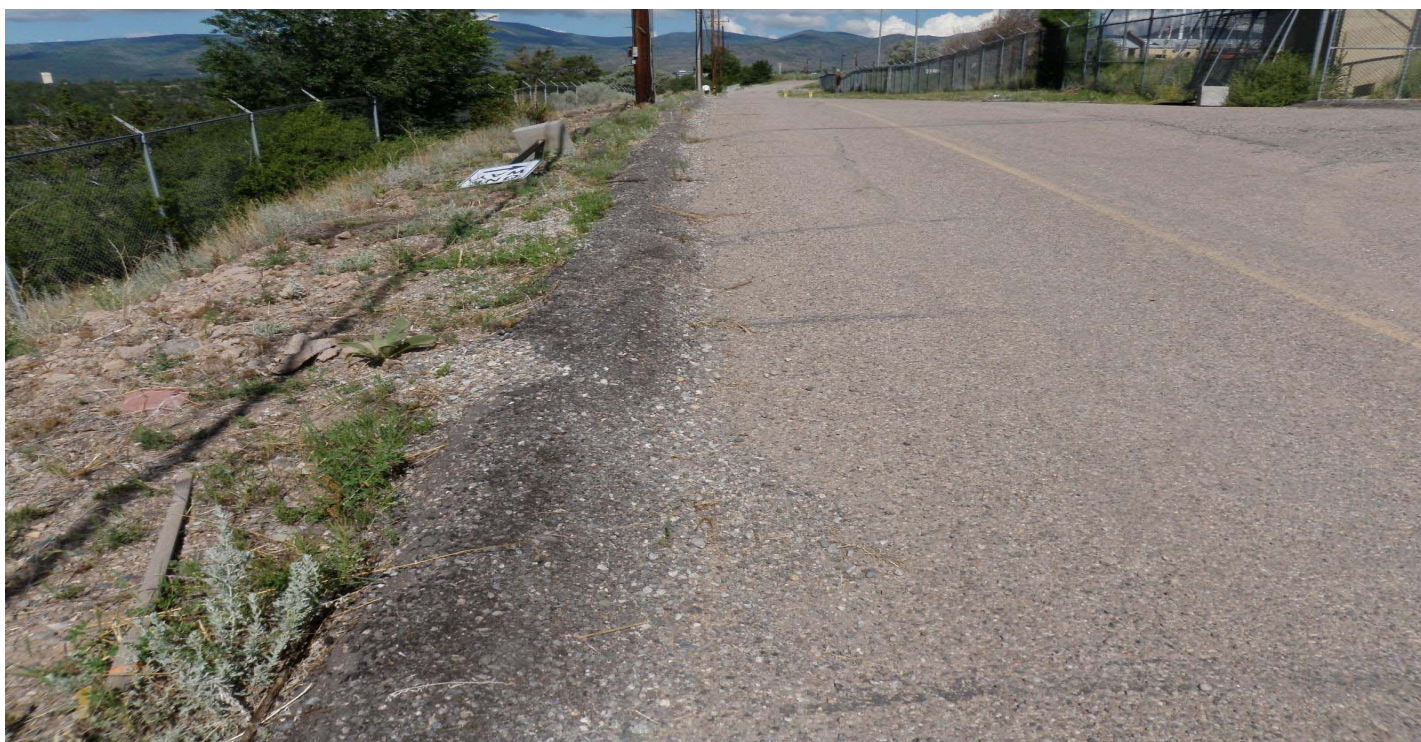


Photo 7433-3.JPG (taken 07/29/10) L02403040003 : Berms - Asphalt Berm.



PF: L024

SMA: LA-SMA-6.34



Photo 7433-4.JPG (taken 07/29/10) L02402010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: L025

SMA: LA-SMA-6.36

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L02503090004 | Berms                   | Curbing                                 | 7434-1.JPG |    |     | X   | X  |
| L02503010008 | Berms                   | Earthen Berm                            | 7434-2.JPG |    | X   |     | X  |
| L02503010009 | Berms                   | Earthen Berm                            | 7434-2.JPG |    |     | X   | X  |
| L02504040005 | Channel/Swale           | Culvert                                 | 7434-4.JPG | X  |     | X   |    |
| L02502010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7434-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7434-1.JPG (taken 07/29/10) L02503090004 : Berms - Curbing.



PF: L025

SMA: LA-SMA-6.36



Photo 7434-2.JPG (taken 07/29/10) L02503010008 : Berms - Earthen Berm; L02503010009 : Berms - Earthen Berm.



Photo 7434-3.JPG (taken 07/29/10) L02502010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: L025

SMA: LA-SMA-6.36



Photo 7434-4.JPG (taken 07/29/10) L02504040005 : Channel/Swale - Culvert.



PF: L026

SMA: LA-SMA-6.38

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L02603060005 | Berms                   | Straw Wattles                           | 7435-3.JPG |    |     | X   | X  |
| L02603060007 | Berms                   | Straw Wattles                           | 7435-2.JPG |    |     | X   | X  |
| L02603060004 | Berms                   | Straw Wattles                           | 7435-1.JPG |    | X   |     | X  |
| L02604060006 | Channel/Swale           | Rip Rap                                 | 7435-3.JPG | X  |     | X   |    |
| L02602010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7435-4.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7435-1.JPG (taken 07/28/10) L02603060004 : Berms - Straw Wattles.



PF: L026

SMA: LA-SMA-6.38



Photo 7435-2.JPG (taken 07/28/10) L02603060007 : Berms - Straw Wattles.



Photo 7435-3.JPG (taken 07/28/10) L02603060005 : Berms - Straw Wattles; L02604060006 : Channel/Swale - Rip Rap.



PF: L026

SMA: LA-SMA-6.38



Photo 7435-4.JPG (taken 07/28/10) L02602010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: L027

SMA: LA-SMA-6.395

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    | X                     |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| L02703010004 | Berms                   | Earthen Berm                            | 7436-2.JPG |    | X   |     | X  |
| L02703010005 | Berms                   | Earthen Berm                            | 7436-1.JPG |    |     | X   | X  |
| L02702010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7436-2.JPG | X  |     |     |    |
| L02701010006 | Seed and Mulch          | Seed and Wood Mulch                     | 7436-1.JPG | X  |     |     |    |

Comments

Run-off control function managed through use of earth berm. Run-off control function of seed and mulch not needed.



Photo 7436-1.JPG (taken 07/29/10) L02701010006 : Seed and Mulch - Seed and Wood Mulch; L02703010005 : Berms - Earthen Berm.



PF: L027

SMA: LA-SMA-6.395



Photo 7436-2.JPG (taken 07/29/10) L02702010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; L02703010004 : Berms - Earthen Berm.



PF: L028

SMA: LA-SMA-6.5

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| L02803010004 | Berms                   | Earthen Berm                            | 7437-1.JPG   |    |     | X   | X  |
| L02803010006 | Berms                   | Earthen Berm                            | 12127-1r.JPG |    |     | X   | X  |
| L02806010002 | Check Dam               | Rock Check Dam                          | 7437-2.JPG   |    | X   |     | X  |
| L02802010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7437-3.JPG   | X  |     |     |    |
| L02801010005 | Seed and Mulch          | Seed and Wood Mulch                     | 7437-1.JPG   | X  |     |     |    |

Comments

None applicable.



Photo 12127-1r.JPG (taken 12/06/10) L02803010006 : Berms - Earthen Berm.



PF: L028

SMA: LA-SMA-6.5



Photo 7437-1.JPG (taken 07/29/10) L02801010005 : Seed and Mulch - Seed and Wood Mulch; L02803010004 : Berms - Earthen Berm.



Photo 7437-2.JPG (taken 07/29/10) L02806010002 : Check Dam - Rock Check Dam.



**PF: L028**

**SMA: LA-SMA-6.5**



Photo 7437-3.JPG (taken 07/29/10) L02802010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



## ENCLOSURE 4

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### Certification of Completion of Baseline Control Measures for 10 Site Monitoring Areas in the Sandia Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294



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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759**

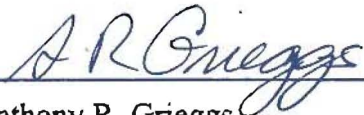
| <b>PERMITTED FEATURE</b> | <b>SITE MONITORING AREA</b> |
|--------------------------|-----------------------------|
| S003A                    | S-SMA-2.01                  |
| S004                     | S-SMA-2.8                   |
| S005                     | S-SMA-3.51                  |
| S005A                    | S-SMA-3.52                  |
| S005B                    | S-SMA-3.53                  |
| S007                     | S-SMA-3.7                   |
| S008                     | S-SMA-3.71                  |
| S009                     | S-SMA-3.72                  |
| S011                     | S-SMA-4.1                   |
| S014                     | S-SMA-5.2                   |



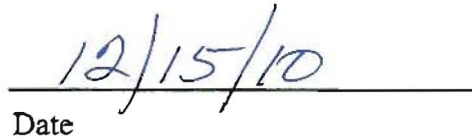
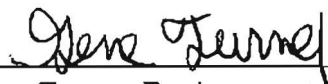
**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759****CERTIFICATION STATEMENT OF AUTHORIZATION**

---

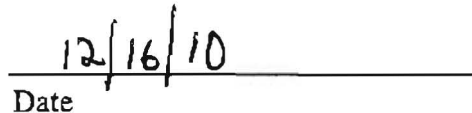
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory

  
Date

Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration

  
Date



PF: S003A

SMA: S-SMA-2.01

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure                              | Photo ID     | EC | ROF | RON | SC |
|---------------|-------------------------|----------------------------------------------|--------------|----|-----|-----|----|
| S003A03010004 | Berms                   | Earthen Berm                                 | 10553-1r.JPG |    |     | X   | X  |
| S003A04060003 | Channel/Swale           | Rip Rap                                      | 10553-3r.JPG | X  | X   |     |    |
| S003A04060002 | Channel/Swale           | Rip Rap                                      | 10553-2r.JPG | X  | X   |     |    |
| S003A02030005 | Established Vegetation  | Permanent Vegetation Vegetative Buffer Strip | 10553-4.JPG  | X  |     | X   |    |

Comments

None applicable.



Photo 10553-1r.JPG (taken 09/08/10) S003A03010004 : Berms - Earthen Berm.



PF: S003A

SMA: S-SMA-2.01



Photo 10553-2r.JPG (taken 09/08/10) S003A04060002 : Channel/Swale - Rip Rap.



Photo 10553-3r.JPG (taken 09/08/10) S003A04060003 : Channel/Swale - Rip Rap.



PF: S003A

SMA: S-SMA-2.01



Photo 10553-4.JPG (taken 09/08/10) S003A02030005 : Established Vegetation - Permanent Vegetation Vegetative Buffer Strip.



PF: S004

SMA: S-SMA-2.8

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| S00403020004 | Berms                   | Base Course Berm                        | 7518-3.JPG |    |     | X   | X  |
| S00403010005 | Berms                   | Earthen Berm                            | 7518-4.jpg |    | X   |     | X  |
| S00403060002 | Berms                   | Straw Wattles                           | 7518-1.JPG |    | X   |     | X  |
| S00402010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7518-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7518-1.JPG (taken 08/12/10) S00403060002 : Berms - Straw Wattles.



PF: S004

SMA: S-SMA-2.8



Photo 7518-2.JPG (taken 08/12/10) S00402010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7518-3.JPG (taken 08/12/10) S00403020004 : Berms - Base Course Berm.



PF: S004

SMA: S-SMA-2.8



Photo 7518-4.jpg (taken 08/12/10) S00403010005 : Berms - Earthen Berm.



PF: S005

SMA: S-SMA-3.51

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Cap                     | X                    |                       | X                    |                       |
| Check Dam               |                      |                       | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| S00503020006 | Berms                   | Base Course Berm                        | 8501-1r.JPG  |    |     | X   | X  |
| S00503010005 | Berms                   | Earthen Berm                            | 10890-2r.JPG |    | X   |     | X  |
| S00506010010 | Check Dam               | Rock Check Dam                          | 8501-2r.JPG  |    |     | X   | X  |
| S00506010007 | Check Dam               | Rock Check Dam                          | 8501-4r.JPG  |    |     | X   | X  |
| S00506010009 | Check Dam               | Rock Check Dam                          | 8501-2r.JPG  |    |     | X   | X  |
| S00506010008 | Check Dam               | Rock Check Dam                          | 8501-3r.JPG  |    |     | X   | X  |
| S00506010012 | Check Dam               | Rock Check Dam                          | 10890-1r.JPG |    |     | X   | X  |
| S00502010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8501-3r.JPG  | X  |     |     |    |

Comments

Run-on control function managed through use of berm and rock check dams. Erosion control function managed by permanent vegetation. Planned cap not needed.



PF: S005

SMA: S-SMA-3.51



Photo 10890-1r.JPG (taken 10/06/10) S00506010012 : Check Dam - Rock Check Dam.



Photo 10890-2r.JPG (taken 10/06/10) S00503010005 : Berms - Earthen Berm.



PF: S005

SMA: S-SMA-3.51



Photo 8501-1r.JPG (taken 08/19/10) S00503020006 : Berms - Base Course Berm.



Photo 8501-2r.JPG (taken 08/19/10) S00506010009 : Check Dam - Rock Check Dam; S00506010010 : Check Dam - Rock Check Dam.



PF: S005

SMA: S-SMA-3.51



Photo 8501-3r.JPG (taken 08/19/10) S00502010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; S00506010008 : Check Dam - Rock Check Dam.



Photo 8501-4r.JPG (taken 08/19/10) S00506010007 : Check Dam - Rock Check Dam.



PF: S005A

SMA: S-SMA-3.52

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|---------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| S005A03060003 | Berms                   | Straw Wattles                           | 7491-2r.JPG |    | X   |     | X  |
| S005A03060002 | Berms                   | Straw Wattles                           | 7491-1r.JPG |    |     | X   | X  |
| S005A02010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7491-3r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7491-1r.JPG (taken 08/09/10) S005A03060002 : Berms - Straw Wattles.



PF: S005A

SMA: S-SMA-3.52



Photo 7491-2r.JPG (taken 08/09/10) S005A03060003 : Berms - Straw Wattles.



Photo 7491-3r.JPG (taken 08/09/10) S005A02010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: S005B

SMA: S-SMA-3.53

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure                           | Photo ID    | EC | ROF | RON | SC |
|---------------|-------------------------|-------------------------------------------|-------------|----|-----|-----|----|
| S005B03120005 | Berms                   | Rock Berm                                 | 10869-3.JPG |    | X   |     | X  |
| S005B06010004 | Check Dam               | Rock Check Dam                            | 10869-2.JPG |    |     | X   | X  |
| S005B06010003 | Check Dam               | Rock Check Dam                            | 10869-1.JPG |    |     | X   | X  |
| S005B02020001 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 10869-4.JPG | X  |     |     |    |

Comments

None applicable.



Photo 10869-1.JPG (taken 10/08/10) S005B06010003 : Check Dam - Rock Check Dam.



PF: S005B

SMA: S-SMA-3.53



Photo 10869-2.JPG (taken 10/08/10) S005B06010004 : Check Dam - Rock Check Dam.



Photo 10869-3.JPG (taken 10/08/10) S005B03120005 : Berms - Rock Berm.



PF: S005B

SMA: S-SMA-3.53



Photo 10869-4.JPG (taken 10/08/10) S005B02020001 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: S007

SMA: S-SMA-3.7

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|--------------|----|-----|-----|----|
| S00703120004 | Berms                   | Rock Berm                                 | 10555-1r.JPG |    |     | X   | X  |
| S00703120005 | Berms                   | Rock Berm                                 | 10555-3r.JPG |    | X   |     | X  |
| S00704030003 | Channel/Swale           | Rock Channel/Swale                        | 10555-2r.JPG | X  |     | X   |    |
| S00702020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 10555-3r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 10555-1r.JPG (taken 09/09/10) S00703120004 : Berms - Rock Berm.



PF: S007

SMA: S-SMA-3.7



Photo 10555-2r.JPG (taken 09/09/10) S00704030003 : Channel/Swale - Rock Channel/Swale.



Photo 10555-3r.JPG (taken 09/09/10) S00702020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast; S00703120005 : Berms - Rock Berm.



PF: S008

SMA: S-SMA-3.71

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Gabions                 |                      |                       | X                    | X                     |
| Seed and Mulch          | X                    |                       | X                    |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| S00803060007 | Berms                   | Straw Wattles                           | 8515-3r.JPG |    |     | X   | X  |
| S00803060004 | Berms                   | Straw Wattles                           | 8515-3r.JPG |    |     | X   | X  |
| S00803060005 | Berms                   | Straw Wattles                           | 8515-3r.JPG |    |     | X   | X  |
| S00803060006 | Berms                   | Straw Wattles                           | 8515-3r.JPG |    |     | X   | X  |
| S00804020002 | Channel/Swale           | Concrete/Asphalt Channel/Swale          | 8515-1r.JPG | X  | X   |     |    |
| S00806010011 | Check Dam               | Rock Check Dam                          | 8515-1r.JPG |    | X   |     | X  |
| S00806010008 | Check Dam               | Rock Check Dam                          | 8515-2r.JPG |    | X   |     | X  |
| S00806010010 | Check Dam               | Rock Check Dam                          | 8515-2r.JPG |    | X   |     | X  |
| S00806010009 | Check Dam               | Rock Check Dam                          | 8515-2r.JPG |    | X   |     | X  |
| S00802010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8515-3r.JPG | X  |     |     |    |
| S00807010001 | Gabions                 | Gabions                                 | 8515-1r.JPG |    |     | X   | X  |
| S00801010012 | Seed and Mulch          | Seed and Wood Mulch                     | 8515-3r.JPG | X  |     |     |    |

Comments

Run-on control function managed through use of berms and gabions. Run-on control function of seed and mulch not needed.



PF: S008

SMA: S-SMA-3.71



Photo 8515-1r.JPG (taken 08/19/10) S00804020002 : Channel/Swale - Concrete/Asphalt Channel/Swale; S00806010011 : Check Dam - Rock Check Dam; S00807010001 : Gabions - Gabions.



Photo 8515-2r.JPG (taken 08/19/10) S00806010008 : Check Dam - Rock Check Dam; S00806010009 : Check Dam - Rock Check Dam; S00806010010 : Check Dam - Rock Check Dam.



PF: S008

SMA: S-SMA-3.71



Photo 8515-3r.JPG (taken 08/19/10) S00801010012 : Seed and Mulch - Seed and Wood Mulch; S00802010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; S00803060004 : Berms - Straw Wattles; S00803060005 : Berms - Straw Wattles; S00803060006 : Berms - Straw Wattles; S00803060007 : Berms - Straw Wattles.



PF: S009

SMA: S-SMA-3.72

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    | X                     |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|-------------|----|-----|-----|----|
| S00903120003 | Berms                   | Rock Berm                                 | 8512-2r.JPG |    |     | X   | X  |
| S00906010007 | Check Dam               | Rock Check Dam                            | 7453-1.JPG  |    | X   |     | X  |
| S00906010004 | Check Dam               | Rock Check Dam                            | 8512-1r.JPG |    | X   |     | X  |
| S00906010005 | Check Dam               | Rock Check Dam                            | 7453-2.JPG  |    | X   |     | X  |
| S00906010006 | Check Dam               | Rock Check Dam                            | 7453-2.JPG  |    | X   |     | X  |
| S00902020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7453-3.JPG  | X  |     |     |    |
| S00902010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7453-3.JPG  | X  |     |     |    |
| S00901010008 | Seed and Mulch          | Seed and Wood Mulch                       | 7453-4.JPG  | X  |     |     |    |

Comments

Run-off control function managed through use of rock check dams. Run-off control function of seed and mulch not needed.



PF: S009

SMA: S-SMA-3.72



Photo 7453-1.JPG (taken 08/04/10) S00906010007 : Check Dam - Rock Check Dam.



Photo 7453-2.JPG (taken 08/04/10) S00906010005 : Check Dam - Rock Check Dam; S00906010006 : Check Dam - Rock Check Dam.



PF: S009

SMA: S-SMA-3.72



Photo 7453-3.JPG (taken 08/04/10) S00902010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; S00902020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



Photo 7453-4.JPG (taken 08/04/10) S00901010008 : Seed and Mulch - Seed and Wood Mulch.



PF: S009

SMA: S-SMA-3.72



Photo 8512-1r.JPG (taken 08/20/10) S00906010004 : Check Dam - Rock Check Dam.



Photo 8512-2r.JPG (taken 08/20/10) S00903120003 : Berms - Rock Berm.



PF: S011

SMA: S-SMA-4.1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|-------------|----|-----|-----|----|
| S01103120003 | Berms                   | Rock Berm                                 | 8669-2r.JPG |    |     | X   | X  |
| S01106010004 | Check Dam               | Rock Check Dam                            | 8669-1r.JPG |    | X   |     | X  |
| S01102020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 8669-2r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 8669-1r.JPG (taken 09/02/10) S01106010004 : Check Dam - Rock Check Dam.



PF: S011

SMA: S-SMA-4.1



Photo 8669-2r.JPG (taken 09/02/10) S01102020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast; S01103120003 : Berms - Rock Berm.



**PF: S014**

**SMA: S-SMA-5.2**

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|--------------|----|-----|-----|----|
| S01403060005 | Berms                   | Straw Wattles                           | 8500-5r.JPG  |    | X   |     | X  |
| S01403060004 | Berms                   | Straw Wattles                           | 8500-5r.JPG  |    | X   |     | X  |
| S01404060011 | Channel/Swale           | Rip Rap                                 | 8500-3r.JPG  | X  |     | X   |    |
| S01406010010 | Check Dam               | Rock Check Dam                          | 8500-1r.JPG  |    |     | X   | X  |
| S01406010006 | Check Dam               | Rock Check Dam                          | 8500-2r.JPG  |    |     | X   | X  |
| S01406010009 | Check Dam               | Rock Check Dam                          | 8500-3r.JPG  |    |     | X   | X  |
| S01406010008 | Check Dam               | Rock Check Dam                          | 8500-2r.JPG  |    |     | X   | X  |
| S01406010007 | Check Dam               | Rock Check Dam                          | 8500-2r.JPG  |    |     | X   | X  |
| S01406010012 | Check Dam               | Rock Check Dam                          | 10886-1r.JPG |    | X   |     | X  |
| S01402010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8500-4r.JPG  | X  |     |     |    |

**Comments**

None applicable.



PF: S014

SMA: S-SMA-5.2



Photo 10886-1r.JPG (taken 10/06/10) S01406010012 : Check Dam - Rock Check Dam.



Photo 8500-1r.JPG (taken 08/19/10) S01406010010 : Check Dam - Rock Check Dam.



PF: S014

SMA: S-SMA-5.2



Photo 8500-2r.JPG (taken 08/19/10) S01406010006 : Check Dam - Rock Check Dam; S01406010007 : Check Dam - Rock Check Dam; S01406010008 : Check Dam - Rock Check Dam.



Photo 8500-3r.JPG (taken 08/19/10) S01404060011 : Channel/Swale - Rip Rap; S01406010009 : Check Dam - Rock Check Dam.



PF: S014

SMA: S-SMA-5.2



Photo 8500-4r.JPG (taken 08/19/10) S01402010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 8500-5r.JPG (taken 08/19/10) S01403060004 : Berms - Straw Wattles; S01403060005 : Berms - Straw Wattles.



## ENCLOSURE 5

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### Certification of Completion of Baseline Control Measures for 14 Site Monitoring Areas in the Mortandad Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294



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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS**

**NPDES Permit No. NM0030759**

| <b>PERMITTED FEATURE</b> | <b>SITE MONITORING AREA</b> |
|--------------------------|-----------------------------|
| C010                     | CDB-SMA-4                   |
| M002                     | M-SMA-1.2                   |
| M002A                    | M-SMA-1.21                  |
| M012                     | M-SMA-10                    |
| M012A                    | M-SMA-10.01                 |
| M014                     | M-SMA-11.1                  |
| M018                     | M-SMA-12.7                  |
| M019                     | M-SMA-12.8                  |
| M020                     | M-SMA-12.9                  |
| M022                     | M-SMA-13                    |
| M004                     | M-SMA-3.1                   |
| M008                     | M-SMA-6                     |
| M009                     | M-SMA-7                     |
| M010                     | M-SMA-7.9                   |

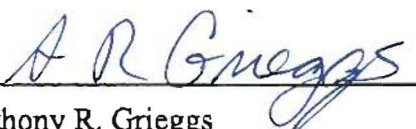


**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS**

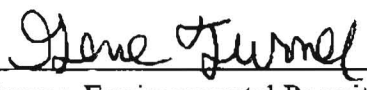
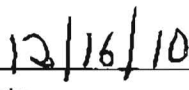
NPDES Permit No. NM0030759

**CERTIFICATION STATEMENT OF AUTHORIZATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory

  
Date  
Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration  
Date



**PF: C010**

**SMA: CDB-SMA-4**

**Baseline Control Measures Required :**

| Type of Control Measure   | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|---------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale             | X                    | X                     |                      |                       |
| Check Dam                 |                      | X                     | X                    | X                     |
| Established Vegetation    | X                    |                       |                      |                       |
| Sediment Traps and Basins |                      | X                     |                      | X                     |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure   | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|---------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| C01004020005 | Channel/Swale             | Concrete/Asphalt Channel/Swale          | 8509-2r.JPG | X  | X   |     |    |
| C01004060007 | Channel/Swale             | Rip Rap                                 | 8509-1r.JPG | X  | X   |     |    |
| C01006010011 | Check Dam                 | Rock Check Dam                          | 8509-3r.JPG |    |     | X   | X  |
| C01006010006 | Check Dam                 | Rock Check Dam                          | 8509-2r.JPG |    | X   |     | X  |
| C01006010009 | Check Dam                 | Rock Check Dam                          | 8509-3r.JPG |    |     | X   | X  |
| C01006010010 | Check Dam                 | Rock Check Dam                          | 8509-3r.JPG |    |     | X   | X  |
| C01006010008 | Check Dam                 | Rock Check Dam                          | 8509-3r.JPG |    |     | X   | X  |
| C01002010003 | Established Vegetation    | Permanent Vegetation Grasses and Shrubs | 8509-1r.JPG | X  |     |     |    |
| C01005010004 | Sediment Traps and Basins | Sediment Trap                           | 8509-1r.JPG |    | X   |     | X  |

**Comments**

None applicable.



PF: C010

SMA: CDB-SMA-4



Photo 8509-1r.JPG (taken 08/20/10) C01002010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; C01004060007 : Channel/Swale - Rip Rap; C01005010004 : Sediment Traps and Basins - Sediment Trap.



Photo 8509-2r.JPG (taken 08/20/10) C01004020005 : Channel/Swale - Concrete/Asphalt Channel/Swale; C01006010006 : Check Dam - Rock Check Dam.



PF: C010

SMA: CDB-SMA-4



Photo 8509-3r.JPG (taken 08/20/10) C01006010008 : Check Dam - Rock Check Dam; C01006010009 : Check Dam - Rock Check Dam; C01006010010 : Check Dam - Rock Check Dam; C01006010011 : Check Dam - Rock Check Dam.



PF: M002

SMA: M-SMA-1.2

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|-------------|----|-----|-----|----|
| M00203060006 | Berms                   | Straw Wattles                             | 7495-1r.JPG |    |     | X   | X  |
| M00204060008 | Channel/Swale           | Rip Rap                                   | 8510-1r.JPG | X  |     | X   |    |
| M00206010004 | Check Dam               | Rock Check Dam                            | 8510-2r.JPG |    | X   |     | X  |
| M00206010003 | Check Dam               | Rock Check Dam                            | 8510-3r.JPG |    | X   |     | X  |
| M00202020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7495-3r.JPG | X  |     |     |    |
| M00202010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7495-2r.JPG | X  |     |     |    |

Comments

None applicable.



PF: M002

SMA: M-SMA-1.2



Photo 7495-1r.JPG (taken 08/09/10) M00203060006 : Berms - Straw Wattles.



Photo 7495-2r.JPG (taken 08/09/10) M00202010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: M002

SMA: M-SMA-1.2



Photo 7495-3r.JPG (taken 08/09/10) M00202020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



Photo 8510-1r.JPG (taken 08/20/10) M00204060008 : Channel/Swale - Rip Rap.



PF: M002

SMA: M-SMA-1.2



Photo 8510-2r.JPG (taken 08/20/10) M00206010004 : Check Dam - Rock Check Dam.



Photo 8510-3r.JPG (taken 08/20/10) M00206010003 : Check Dam - Rock Check Dam.



PF: M002A

SMA: M-SMA-1.21

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|---------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| M002A03020002 | Berms                   | Base Course Berm                        | 7494-1r.JPG |    |     | X   | X  |
| M002A03120005 | Berms                   | Rock Berm                               | 7494-3r.JPG |    | X   |     | X  |
| M002A04060003 | Channel/Swale           | Rip Rap                                 | 7494-2r.JPG | X  | X   |     |    |
| M002A06010004 | Check Dam               | Rock Check Dam                          | 7494-2r.JPG |    | X   |     | X  |
| M002A02010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7494-4r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7494-1r.JPG (taken 08/09/10) M002A03020002 : Berms - Base Course Berm.



PF: M002A

SMA: M-SMA-1.21



Photo 7494-2r.JPG (taken 08/09/10) M002A04060003 : Channel/Swale - Rip Rap; M002A06010004 : Check Dam - Rock Check Dam.



Photo 7494-3r.JPG (taken 08/09/10) M002A03120005 : Berms - Rock Berm.



PF: M002A

SMA: M-SMA-1.21



Photo 7494-4r.JPG (taken 08/09/10) M002A02010001 : Established Vegetation - Permanent Vegetation  
Grasses and Shrubs.



PF: M012

SMA: M-SMA-10

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale           | X                    | X                     | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| M01204060008 | Channel/Swale           | Rip Rap                                   | 7466-4.JPG | X  | X   |     |    |
| M01204060004 | Channel/Swale           | Rip Rap                                   | 7466-1.JPG | X  |     | X   |    |
| M01204060007 | Channel/Swale           | Rip Rap                                   | 7466-4.JPG | X  | X   |     |    |
| M01206010009 | Check Dam               | Rock Check Dam                            | 7466-3.JPG |    | X   |     | X  |
| M01206010010 | Check Dam               | Rock Check Dam                            | 7466-5.JPG |    | X   |     | X  |
| M01206010001 | Check Dam               | Rock Check Dam                            | 7466-4.JPG |    | X   |     | X  |
| M01206010005 | Check Dam               | Rock Check Dam                            | 7466-4.JPG |    | X   |     | X  |
| M01206010006 | Check Dam               | Rock Check Dam                            | 7466-3.JPG |    | X   |     | X  |
| M01202020011 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7466-2.JPG | X  |     |     |    |
| M01202010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7466-2.JPG | X  |     |     |    |

Comments

None applicable.



PF: M012

SMA: M-SMA-10



Photo 7466-1.JPG (taken 08/06/10) M01204060004 : Channel/Swale - Rip Rap.



Photo 7466-2.JPG (taken 08/06/10) M01202010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M01202020011 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: M012

SMA: M-SMA-10



Photo 7466-3.JPG (taken 08/06/10) M01206010006 : Check Dam - Rock Check Dam; M01206010009 : Check Dam - Rock Check Dam.



Photo 7466-4.JPG (taken 08/06/10) M01204060007 : Channel/Swale - Rip Rap; M01204060008 : Channel/Swale - Rip Rap; M01206010001 : Check Dam - Rock Check Dam; M01206010005 : Check Dam - Rock Check Dam.



PF: M012

SMA: M-SMA-10



Photo 7466-5.JPG (taken 08/06/10) M01206010010 : Check Dam - Rock Check Dam.



PF: M012A

SMA: M-SMA-10.01

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Seed and Mulch          | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID        | Type of Control Measure | Control Measure     | Photo ID   | EC | ROF | RON | SC |
|---------------|-------------------------|---------------------|------------|----|-----|-----|----|
| M012A03060004 | Berms                   | Straw Wattles       | 7464-1.JPG |    |     | X   | X  |
| M012A06010003 | Check Dam               | Rock Check Dam      | 7464-3.JPG |    | X   |     | X  |
| M012A01010002 | Seed and Mulch          | Seed and Wood Mulch | 7464-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7464-1.JPG (taken 08/06/10) M012A03060004 : Berms - Straw Wattles.



PF: M012A

SMA: M-SMA-10.01



Photo 7464-2.JPG (taken 08/06/10) M012A01010002 : Seed and Mulch - Seed and Wood Mulch.



Photo 7464-3.JPG (taken 08/06/10) M012A06010003 : Check Dam - Rock Check Dam.



PF: M014

SMA: M-SMA-11.1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| M01403090005 | Berms                   | Curbing                                   | 7463-1.JPG |    |     | X   | X  |
| M01404060001 | Channel/Swale           | Rip Rap                                   | 7463-2.JPG | X  |     | X   |    |
| M01406020006 | Check Dam               | Log Check Dam                             | 7463-3.JPG |    | X   |     | X  |
| M01402020004 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7463-3.JPG | X  |     |     |    |
| M01402010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7463-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7463-1.JPG (taken 08/06/10) M01403090005 : Berms - Curbing.



PF: M014

SMA: M-SMA-11.1



Photo 7463-2.JPG (taken 08/06/10) M01404060001 : Channel/Swale - Rip Rap.



Photo 7463-3.JPG (taken 08/06/10) M01402010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M01402020004 : Established Vegetation - Permanent Vegetation Forested/Needle Cast; M01406020006 : Check Dam - Log Check Dam.



PF: M018

SMA: M-SMA-12.7

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| M01803010008 | Berms                   | Earthen Berm                            | 7479-4r.JPG |    |     | X   | X  |
| M01803060006 | Berms                   | Straw Wattles                           | 7479-2r.JPG |    |     | X   | X  |
| M01803060007 | Berms                   | Straw Wattles                           | 7479-3r.JPG |    |     | X   | X  |
| M01806020009 | Check Dam               | Log Check Dam                           | 7479-1r.JPG |    | X   |     | X  |
| M01802010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7479-1r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7479-1r.JPG (taken 08/10/10) M01802010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M01806020009 : Check Dam - Log Check Dam.



PF: M018

SMA: M-SMA-12.7



Photo 7479-2r.JPG (taken 08/10/10) M01803060006 : Berms - Straw Wattles.



Photo 7479-3r.JPG (taken 08/10/10) M01803060007 : Berms - Straw Wattles.



**PF: M018**

**SMA: M-SMA-12.7**



Photo 7479-4r.JPG (taken 08/10/10) M01803010008 : Berms - Earthen Berm.



PF: M019

SMA: M-SMA-12.8

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| M01903010003 | Berms                   | Earthen Berm                            | 7478-3r.JPG |    |     | X   | X  |
| M01903060004 | Berms                   | Straw Wattles                           | 7478-4r.JPG |    | X   |     | X  |
| M01903060007 | Berms                   | Straw Wattles                           | 7478-1r.JPG |    | X   |     | X  |
| M01906020006 | Check Dam               | Log Check Dam                           | 7478-2r.JPG |    | X   |     | X  |
| M01902010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7478-1r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7478-1r.JPG (taken 08/10/10) M01902010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M01903060007 : Berms - Straw Wattles.



PF: M019

SMA: M-SMA-12.8



Photo 7478-2r.JPG (taken 08/10/10) M01906020006 : Check Dam - Log Check Dam.



Photo 7478-3r.JPG (taken 08/10/10) M01903010003 : Berms - Earthen Berm.



PF: M019

SMA: M-SMA-12.8



Photo 7478-4r.JPG (taken 08/10/10) M01903060004 : Berms - Straw Wattles.



PF: M020

SMA: M-SMA-12.9

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       | X                    |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| M02003010005 | Berms                   | Earthen Berm                            | 7477-1r.JPG |    |     | X   | X  |
| M02003060007 | Berms                   | Straw Wattles                           | 7477-3r.JPG |    | X   |     | X  |
| M02003060003 | Berms                   | Straw Wattles                           | 7477-1r.JPG |    | X   |     | X  |
| M02003060004 | Berms                   | Straw Wattles                           | 7477-1r.JPG |    |     | X   | X  |
| M02002010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7477-2r.JPG | X  |     |     |    |
| M02001010006 | Seed and Mulch          | Seed and Wood Mulch                     | 7477-1r.JPG | X  |     | X   |    |

Comments

None applicable.



Photo 7477-1r.JPG (taken 08/10/10) M02001010006 : Seed and Mulch - Seed and Wood Mulch; M02003010005 : Berms - Earthen Berm; M02003060003 : Berms - Straw Wattles; M02003060004 : Berms - Straw Wattles.



PF: M020

SMA: M-SMA-12.9



Photo 7477-2r.JPG (taken 08/10/10) M02002010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7477-3r.JPG (taken 08/10/10) M02003060007 : Berms - Straw Wattles.



PF: M022

SMA: M-SMA-13

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Check Dam               |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| M02203060005 | Berms                   | Straw Wattles                           | 7476-3r.JPG |    |     | X   | X  |
| M02203060006 | Berms                   | Straw Wattles                           | 7476-3r.JPG |    |     | X   | X  |
| M02203060007 | Berms                   | Straw Wattles                           | 7476-4r.JPG |    |     | X   | X  |
| M02206020001 | Check Dam               | Log Check Dam                           | 7476-6r.JPG |    | X   |     | X  |
| M02206020003 | Check Dam               | Log Check Dam                           | 7476-7r.JPG |    | X   |     | X  |
| M02206010008 | Check Dam               | Rock Check Dam                          | 7476-2r.JPG |    |     | X   | X  |
| M02206010010 | Check Dam               | Rock Check Dam                          | 7476-2r.JPG |    |     | X   | X  |
| M02206010011 | Check Dam               | Rock Check Dam                          | 7476-1r.JPG |    |     | X   | X  |
| M02206010009 | Check Dam               | Rock Check Dam                          | 7476-1r.JPG |    |     | X   | X  |
| M02202010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7476-5r.JPG | X  |     |     |    |
| M02201010012 | Seed and Mulch          | Seed and Wood Mulch                     | 7476-5r.JPG | X  |     |     |    |

Comments

None applicable.



PF: M022

SMA: M-SMA-13



Photo 7476-1r.JPG (taken 08/10/10) M02206010009 : Check Dam - Rock Check Dam; M02206010011 : Check Dam - Rock Check Dam.



Photo 7476-2r.JPG (taken 08/10/10) M02206010008 : Check Dam - Rock Check Dam; M02206010010 : Check Dam - Rock Check Dam.



PF: M022

SMA: M-SMA-13



Photo 7476-3r.JPG (taken 08/10/10) M02203060005 : Berms - Straw Wattles; M02203060006 : Berms - Straw Wattles.



Photo 7476-4r.JPG (taken 08/10/10) M02203060007 : Berms - Straw Wattles.



PF: M022

SMA: M-SMA-13



Photo 7476-5r.JPG (taken 08/10/10) M02201010012 : Seed and Mulch - Seed and Wood Mulch;  
M02202010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7476-6r.JPG (taken 08/10/10) M02206020001 : Check Dam - Log Check Dam.



PF: M022

SMA: M-SMA-13



Photo 7476-7r.JPG (taken 08/10/10) M02206020003 : Check Dam - Log Check Dam.



PF: M004

SMA: M-SMA-3.1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| M00403040006 | Berms                   | Asphalt Berm                            | 8511-1r.JPG |    |     | X   | X  |
| M00404060005 | Channel/Swale           | Rip Rap                                 | 7488-1r.JPG | X  | X   |     |    |
| M00406010004 | Check Dam               | Rock Check Dam                          | 8511-2r.JPG |    | X   |     | X  |
| M00402010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7488-2.JPG  | X  |     |     |    |

Comments

None applicable.



Photo 7488-1r.JPG (taken 08/09/10) M00404060005 : Channel/Swale - Rip Rap.



PF: M004

SMA: M-SMA-3.1



Photo 7488-2.JPG (taken 08/09/10) M00402010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 8511-1r.JPG (taken 08/20/10) M00403040006 : Berms - Asphalt Berm.



PF: M004

SMA: M-SMA-3.1



Photo 8511-2r.JPG (taken 08/20/10) M00406010004 : Check Dam - Rock Check Dam.



PF: M008

SMA: M-SMA-6

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Cap                     | X                    |                       | X                    |                       |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID      | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|---------------|----|-----|-----|----|
| M00808030002 | Cap                     | Concrete/Asphalt Cap                      | 10550-01r.JPG | X  |     | X   |    |
| M00804060014 | Channel/Swale           | Rip Rap                                   | 10550-03r.JPG | X  |     |     |    |
| M00804060001 | Channel/Swale           | Rip Rap                                   | 10550-06r.JPG | X  |     | X   |    |
| M00806010007 | Check Dam               | Rock Check Dam                            | 11026-3r.JPG  |    |     | X   | X  |
| M00806010011 | Check Dam               | Rock Check Dam                            | 11026-2r.JPG  |    | X   |     | X  |
| M00806010010 | Check Dam               | Rock Check Dam                            | 10550-09r.JPG |    | X   |     | X  |
| M00806010009 | Check Dam               | Rock Check Dam                            | 11026-1r.JPG  |    | X   |     | X  |
| M00806010008 | Check Dam               | Rock Check Dam                            | 10550-07r.JPG |    | X   |     | X  |
| M00806010012 | Check Dam               | Rock Check Dam                            | 11026-2r.JPG  |    | X   |     | X  |
| M00802020005 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 10550-11r.JPG | X  |     |     |    |
| M00802010004 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 10550-11r.JPG | X  |     |     |    |
| M00807020013 | Gabions                 | Gabion Blanket                            | 10550-02r.JPG | X  |     | X   |    |
| M00805020016 | Sediment Traps and Bas  | Sediment Basin                            | 10550-05r.JPG |    |     | X   | X  |
| M00801060015 | Seed and Mulch          | Erosion Control Blanket                   | 10550-04r.JPG | X  |     |     |    |

Comments

None applicable.



PF: M008

SMA: M-SMA-6



Photo 10550-01r.JPG (taken 09/20/10) M00808030002 : Cap - Concrete/Asphalt Cap.



Photo 10550-02r.JPG (taken 09/20/10) M00807020013 : Gabions - Gabion Blanket.



PF: M008

SMA: M-SMA-6



Photo 10550-03r.JPG (taken 09/20/10) M00804060014 : Channel/Swale - Rip Rap.



Photo 10550-04r.JPG (taken 09/20/10) M00801060015 : Seed and Mulch - Erosion Control Blanket.



PF: M008

SMA: M-SMA-6



Photo 10550-05r.JPG (taken 09/20/10) M00805020016 : Sediment Traps and Basins - Sediment Basin.



Photo 10550-06r.JPG (taken 09/20/10) M00804060001 : Channel/Swale - Rip Rap.



PF: M008

SMA: M-SMA-6



Photo 10550-07r.JPG (taken 09/20/10) M00806010008 : Check Dam - Rock Check Dam.



Photo 10550-09r.JPG (taken 09/20/10) M00806010010 : Check Dam - Rock Check Dam.



PF: M008

SMA: M-SMA-6



Photo 10550-11r.JPG (taken 09/20/10) M00802010004 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M00802020005 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



Photo 11026-1r.JPG (taken 10/21/10) M00806010009 : Check Dam - Rock Check Dam.



PF: M008

SMA: M-SMA-6



Photo 11026-2r.JPG (taken 10/21/10) M00806010011 : Check Dam - Rock Check Dam; M00806010012 : Check Dam - Rock Check Dam.



Photo 11026-3r.JPG (taken 10/21/10) M00806010007 : Check Dam - Rock Check Dam.



PF: M009

SMA: M-SMA-7

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| M00903060004 | Berms                   | Straw Wattles                             | 7468-1.JPG |    |     | X   | X  |
| M00903060005 | Berms                   | Straw Wattles                             | 7468-2.JPG |    |     | X   | X  |
| M00906010003 | Check Dam               | Rock Check Dam                            | 7468-3.JPG |    | X   |     | X  |
| M00902020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7468-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7468-1.JPG (taken 08/06/10) M00903060004 : Berms - Straw Wattles.



PF: M009

SMA: M-SMA-7



Photo 7468-2.JPG (taken 08/06/10) M00903060005 : Berms - Straw Wattles.



Photo 7468-3.JPG (taken 08/06/10) M00902020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast; M00906010003 : Check Dam - Rock Check Dam.



PF: M010

SMA: M-SMA-7.9

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID     | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|--------------|----|-----|-----|----|
| M01003010011 | Berms                   | Earthen Berm                              | 10549-1r.JPG |    |     | X   | X  |
| M01003010004 | Berms                   | Earthen Berm                              | 7465-5.JPG   |    |     | X   | X  |
| M01003010010 | Berms                   | Earthen Berm                              | 8663-1r.JPG  |    |     | X   | X  |
| M01003120005 | Berms                   | Rock Berm                                 | 10549-1r.JPG |    |     | X   | X  |
| M01003120006 | Berms                   | Rock Berm                                 | 10549-1r.JPG |    |     | X   | X  |
| M01003060009 | Berms                   | Straw Wattles                             | 7465-1.JPG   |    | X   |     | X  |
| M01003060007 | Berms                   | Straw Wattles                             | 7465-3.JPG   |    |     | X   | X  |
| M01003060008 | Berms                   | Straw Wattles                             | 7465-2.JPG   |    | X   |     | X  |
| M01002020003 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7465-6.JPG   | X  |     |     |    |
| M01002010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7465-6.JPG   | X  |     |     |    |
| M01001010001 | Seed and Mulch          | Seed and Wood Mulch                       | 7465-2.JPG   | X  |     |     |    |

Comments

None applicable.



PF: M010

SMA: M-SMA-7.9



Photo 10549-1r.JPG (taken 09/20/10) M01003010011 : Berms - Earthen Berm; M01003120005 : Berms - Rock Berm; M01003120006 : Berms - Rock Berm.



Photo 7465-1.JPG (taken 08/06/10) M01003060009 : Berms - Straw Wattles.



PF: M010

SMA: M-SMA-7.9



Photo 7465-2.JPG (taken 08/06/10) M01001010001 : Seed and Mulch - Seed and Wood Mulch; M01003060008 : Berms - Straw Wattles.



Photo 7465-3.JPG (taken 08/06/10) M01003060007 : Berms - Straw Wattles.



PF: M010

SMA: M-SMA-7.9



Photo 7465-5.JPG (taken 08/06/10) M01003010004 : Berms - Earthen Berm.



Photo 7465-6.JPG (taken 08/06/10) M01002010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M01002020003 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: M010

SMA: M-SMA-7.9



Photo 8663-1r.JPG (taken 09/03/10) M01003010010 : Berms - Earthen Berm.



## ENCLOSURE 6

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### Certification of Completion of Baseline Control Measures for 10 Site Monitoring Areas in Ten-Site Canyon in the Mortandad Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294



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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS**

**NPDES Permit No. NM0030759**

| <b>PERMITTED FEATURE</b> | <b>SITE MONITORING AREA</b> |
|--------------------------|-----------------------------|
| T001                     | Pratt-SMA-1.05              |
| T002                     | T-SMA-1                     |
| T003                     | T-SMA-2.5                   |
| T004                     | T-SMA-2.85                  |
| T005                     | T-SMA-3                     |
| T006                     | T-SMA-4                     |
| T007                     | T-SMA-5                     |
| T008                     | T-SMA-6.8                   |
| T009                     | T-SMA-7                     |
| T010                     | T-SMA-7.1                   |



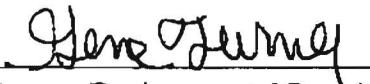
**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759****CERTIFICATION STATEMENT OF AUTHORIZATION**

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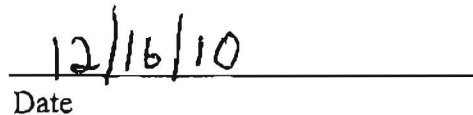
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory

  
Date

Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration

  
Date



**PF: T001**

**SMA: Pratt-SMA-1.05**

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   | X                    | X                     | X                    | X                     |
| Cap                     | X                    |                       | X                    |                       |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Gabions                 |                      | X                     |                      | X                     |
| Seed and Mulch          | X                    |                       | X                    |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|-------------|----|-----|-----|----|
| T00103020014 | Berms                   | Base Course Berm                          | 7452-03.JPG |    |     | X   | X  |
| T00103020018 | Berms                   | Base Course Berm                          | 7452-10.JPG |    |     | X   | X  |
| T00103020016 | Berms                   | Base Course Berm                          | 7452-05.JPG |    |     | X   | X  |
| T00103020013 | Berms                   | Base Course Berm                          | 7452-02.JPG |    |     | X   | X  |
| T00103020015 | Berms                   | Base Course Berm                          | 7452-04.JPG |    |     | X   | X  |
| T00103090004 | Berms                   | Curbing                                   | 7452-13.JPG |    |     | X   | X  |
| T00103010017 | Berms                   | Earthen Berm                              | 7452-11.JPG |    |     | X   | X  |
| T00103010002 | Berms                   | Earthen Berm                              | 7452-9.JPG  |    | X   |     | X  |
| T00103120008 | Berms                   | Rock Berm                                 | 7452-6.JPG  |    | X   |     | X  |
| T00108020005 | Cap                     | Rock Cap                                  | 7452-12.JPG | X  |     | X   |    |
| T00104020006 | Channel/Swale           | Concrete/Asphalt Channel/Swale            | 7452-14.JPG | X  |     | X   |    |
| T00106010012 | Check Dam               | Rock Check Dam                            | 7452-1.JPG  |    | X   |     | X  |
| T00106010011 | Check Dam               | Rock Check Dam                            | 7452-8.JPG  |    | X   |     | X  |
| T00102020009 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7452-7.JPG  | X  |     |     |    |
| T00102010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7452-7.JPG  | X  |     |     |    |
| T00107010003 | Gabions                 | Gabions                                   | 7452-15.JPG |    | X   |     | X  |
| T00101010019 | Seed and Mulch          | Seed and Wood Mulch                       | 7452-10.JPG | X  |     |     |    |

**Comments**

Run-on control function managed through use of berms. Run-on control function of seed and mulch not needed. Erosion control function managed through use of rock cap and vegetation. Erosion control function of berms not needed.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-02.JPG (taken 08/04/10) T00103020013 : Berms - Base Course Berm.



Photo 7452-03.JPG (taken 08/04/10) T00103020014 : Berms - Base Course Berm.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-04.JPG (taken 08/04/10) T00103020015 : Berms - Base Course Berm.



Photo 7452-05.JPG (taken 08/04/10) T00103020016 : Berms - Base Course Berm.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-1.JPG (taken 08/04/10) T00106010012 : Check Dam - Rock Check Dam.



Photo 7452-10.JPG (taken 08/04/10) T00101010019 : Seed and Mulch - Seed and Wood Mulch;  
T00103020018 : Berms - Base Course Berm.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-11.JPG (taken 08/04/10) T00103010017 : Berms - Earthen Berm.



Photo 7452-12.JPG (taken 08/04/10) T00108020005 : Cap - Rock Cap.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-13.JPG (taken 08/04/10) T00103090004 : Berms - Curbing.



Photo 7452-14.JPG (taken 08/04/10) T00104020006 : Channel/Swale - Concrete/Asphalt Channel/Swale.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-15.JPG (taken 08/04/10) T00107010003 : Gabions - Gabions.



Photo 7452-6.JPG (taken 08/04/10) T00103120008 : Berms - Rock Berm.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-7.JPG (taken 08/04/10) T00102010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; T00102020009 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



Photo 7452-8.JPG (taken 08/04/10) T00106010011 : Check Dam - Rock Check Dam.



PF: T001

SMA: Pratt-SMA-1.05



Photo 7452-9.JPG (taken 08/04/10) T00103010002 : Berms - Earthen Berm.



PF: T002

SMA: T-SMA-1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Cap                     | X                    |                       | X                    |                       |
| Channel/Swale           | X                    | X                     |                      |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| T00203060003 | Berms                   | Straw Wattles                           | 7454-3.JPG |    | X   |     | X  |
| T00208010001 | Cap                     | Earth Cap                               | 7454-4.JPG | X  |     | X   |    |
| T00204060006 | Channel/Swale           | Rip Rap                                 | 7454-1.JPG | X  | X   |     |    |
| T00202010004 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7454-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7454-1.JPG (taken 08/04/10) T00204060006 : Channel/Swale - Rip Rap.



PF: T002

SMA: T-SMA-1



Photo 7454-2.JPG (taken 08/04/10) T00202010004 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



Photo 7454-3.JPG (taken 08/04/10) T00203060003 : Berms - Straw Wattles.



**PF: T002**

**SMA: T-SMA-1**



Photo 7454-4.JPG (taken 08/04/10) T00208010001 : Cap - Earth Cap.



PF: T003

SMA: T-SMA-2.5

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Cap                     | X                    | X                     |                      |                       |
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure       | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------|------------|----|-----|-----|----|
| T00308020001 | Cap                     | Rock Cap              | 7470-1.JPG | X  | X   |     |    |
| T00304010002 | Channel/Swale           | Earthen Channel/Swale | 7470-3.JPG | X  |     | X   |    |
| T00306010005 | Check Dam               | Rock Check Dam        | 7470-2.JPG |    | X   |     | X  |
| T00306010003 | Check Dam               | Rock Check Dam        | 7470-1.JPG |    | X   |     | X  |
| T00306010004 | Check Dam               | Rock Check Dam        | 7470-1.JPG |    | X   |     | X  |

Comments

None applicable.



Photo 7470-1.JPG (taken 08/06/10) T00306010003 : Check Dam - Rock Check Dam; T00306010004 : Check Dam - Rock Check Dam; T00308020001 : Cap - Rock Cap.



PF: T003

SMA: T-SMA-2.5



Photo 7470-2.JPG (taken 08/06/10) T00306010005 : Check Dam - Rock Check Dam.



Photo 7470-3.JPG (taken 08/06/10) T00304010002 : Channel/Swale - Earthen Channel/Swale.



PF: T004

SMA: T-SMA-2.85

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| T00403090004 | Berms                   | Curbing                                   | 7469-3.JPG |    |     | X   | X  |
| T00406010006 | Check Dam               | Rock Check Dam                            | 7469-1.JPG | X  |     | X   |    |
| T00406010005 | Check Dam               | Rock Check Dam                            | 7469-2.JPG |    | X   |     | X  |
| T00402020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7469-2.JPG | X  |     |     |    |
| T00402010003 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7469-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7469-1.JPG (taken 08/06/10) T00406010006 : Check Dam - Rock Check Dam.



PF: T004

SMA: T-SMA-2.85



Photo 7469-2.JPG (taken 08/06/10) T00402010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; T00402020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast; T00406010005 : Check Dam - Rock Check Dam.



Photo 7469-3.JPG (taken 08/06/10) T00403090004 : Berms - Curbing.



PF: T005

SMA: T-SMA-3

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Channel/Swale           | X                    |                       | X                    |                       |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| T00504060001 | Channel/Swale           | Rip Rap                                   | 7459-4.JPG | X  |     | X   |    |
| T00506020008 | Check Dam               | Log Check Dam                             | 7459-1.JPG |    | X   |     | X  |
| T00506020007 | Check Dam               | Log Check Dam                             | 7459-2.JPG |    | X   |     | X  |
| T00502020006 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7459-3.JPG | X  |     |     |    |
| T00502010005 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7459-3.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7459-1.JPG (taken 08/04/10) T00506020008 : Check Dam - Log Check Dam.



PF: T005

SMA: T-SMA-3



Photo 7459-2.JPG (taken 08/04/10) T00506020007 : Check Dam - Log Check Dam.



Photo 7459-3.JPG (taken 08/04/10) T00502010005 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; T00502020006 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: T005

SMA: T-SMA-3



Photo 7459-4.JPG (taken 08/04/10) T00504060001 : Channel/Swale - Rip Rap.



PF: T006

SMA: T-SMA-4

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Channel/Swale           | X                    | X                     |                      |                       |
| Established Vegetation  | X                    |                       |                      |                       |
| Gabions                 |                      | X                     |                      | X                     |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| T00603090005 | Berms                   | Curbing                                   | 7458-4.JPG |    |     | X   | X  |
| T00603030010 | Berms                   | Log Berm                                  | 7458-2.JPG |    | X   |     | X  |
| T00603030009 | Berms                   | Log Berm                                  | 7458-1.JPG |    | X   |     | X  |
| T00604060004 | Channel/Swale           | Rip Rap                                   | 7458-6.JPG | X  | X   |     |    |
| T00606010006 | Check Dam               | Rock Check Dam                            | 7458-7.JPG |    |     | X   | X  |
| T00606010007 | Check Dam               | Rock Check Dam                            | 7458-7.JPG |    |     | X   | X  |
| T00606010008 | Check Dam               | Rock Check Dam                            | 7458-7.JPG |    |     | X   | X  |
| T00602020002 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7458-3.JPG | X  |     |     |    |
| T00602010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7458-3.JPG | X  |     |     |    |
| T00607010003 | Gabions                 | Gabions                                   | 7458-5.JPG |    | X   |     | X  |

Comments

None applicable.



PF: T006

SMA: T-SMA-4



Photo 7458-1.JPG (taken 08/04/10) T00603030009 : Berms - Log Berm.



Photo 7458-2.JPG (taken 08/04/10) T00603030010 : Berms - Log Berm.



PF: T006

SMA: T-SMA-4



Photo 7458-3.JPG (taken 08/04/10) T00602010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; T00602020002 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



Photo 7458-4.JPG (taken 08/04/10) T00603090005 : Berms - Curbing.



PF: T006

SMA: T-SMA-4



Photo 7458-5.JPG (taken 08/04/10) T00607010003 : Gabions - Gabions.



Photo 7458-6.JPG (taken 08/04/10) T00604060004 : Channel/Swale - Rip Rap.



PF: T006

SMA: T-SMA-4



Photo 7458-7.JPG (taken 08/04/10) T00606010006 : Check Dam - Rock Check Dam; T00606010007 : Check Dam - Rock Check Dam; T00606010008 : Check Dam - Rock Check Dam.



PF: T007

SMA: T-SMA-5

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                           | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-------------------------------------------|------------|----|-----|-----|----|
| T00703020008 | Berms                   | Base Course Berm                          | 7450-3.JPG |    |     | X   | X  |
| T00703020003 | Berms                   | Base Course Berm                          | 7450-5.JPG |    |     | X   | X  |
| T00703120010 | Berms                   | Rock Berm                                 | 8532-1.JPG |    | X   |     | X  |
| T00706010011 | Check Dam               | Rock Check Dam                            | 8532-2.JPG |    | X   |     | X  |
| T00706010002 | Check Dam               | Rock Check Dam                            | 7450-1.JPG |    | X   |     | X  |
| T00706010004 | Check Dam               | Rock Check Dam                            | 7450-1.JPG |    | X   |     | X  |
| T00706010009 | Check Dam               | Rock Check Dam                            | 7450-4.JPG |    |     | X   | X  |
| T00702020007 | Established Vegetation  | Permanent Vegetation Forested/Needle Cast | 7450-2.JPG | X  |     |     |    |
| T00702010005 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs   | 7450-2.JPG | X  |     |     |    |

Comments

None applicable.



PF: T007

SMA: T-SMA-5



Photo 7450-1.JPG (taken 08/04/10) T00706010002 : Check Dam - Rock Check Dam; T00706010004 : Check Dam - Rock Check Dam.



Photo 7450-2.JPG (taken 08/04/10) T00702010005 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; T00702020007 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.



PF: T007

SMA: T-SMA-5



Photo 7450-3.JPG (taken 08/04/10) T00703020008 : Berms - Base Course Berm.



Photo 7450-4.JPG (taken 08/04/10) T00706010009 : Check Dam - Rock Check Dam.



PF: T007

SMA: T-SMA-5



Photo 7450-5.JPG (taken 08/04/10) T00703020003 : Berms - Base Course Berm.



Photo 8532-1.JPG (taken 08/23/10) T00703120010 : Berms - Rock Berm.



PF: T007

SMA: T-SMA-5



Photo 8532-2.JPG (taken 08/23/10) T00706010011 : Check Dam - Rock Check Dam.



PF: T008

SMA: T-SMA-6.8

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID   | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|------------|----|-----|-----|----|
| T00803100003 | Berms                   | Gravel Bags                             | 7455-1.JPG |    | X   |     | X  |
| T00803060002 | Berms                   | Straw Wattles                           | 7455-1.JPG |    |     | X   | X  |
| T00802010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 7455-2.JPG | X  |     |     |    |

Comments

None applicable.



Photo 7455-1.JPG (taken 08/04/10) T00803060002 : Berms - Straw Wattles; T00803100003 : Berms - Gravel Bags.



PF: T008

SMA: T-SMA-6.8



Photo 7455-2.JPG (taken 08/04/10) T00802010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



**PF: T009**

**SMA: T-SMA-7**

**Baseline Control Measures Required :**

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      |                       | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |
| Seed and Mulch          | X                    |                       |                      |                       |

**Baseline Control Measures Installed :**

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| T00903020008 | Berms                   | Base Course Berm                        | 8665-5r.JPG |    |     | X   | X  |
| T00903060004 | Berms                   | Straw Wattles                           | 8665-4r.JPG |    |     | X   | X  |
| T00906010007 | Check Dam               | Rock Check Dam                          | 8665-1r.JPG |    | X   |     | X  |
| T00906010002 | Check Dam               | Rock Check Dam                          | 8665-3r.JPG |    | X   |     | X  |
| T00906010003 | Check Dam               | Rock Check Dam                          | 8665-2r.JPG |    | X   |     | X  |
| T00906010006 | Check Dam               | Rock Check Dam                          | 8665-3r.JPG |    | X   |     | X  |
| T00902010001 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8665-5r.JPG | X  |     |     |    |
| T00901010005 | Seed and Mulch          | Seed and Wood Mulch                     | 8665-5r.JPG | X  |     |     |    |

**Comments**

None applicable.



PF: T009

SMA: T-SMA-7



Photo 8665-1r.JPG (taken 09/02/10) T00906010007 : Check Dam - Rock Check Dam.



Photo 8665-2r.JPG (taken 09/02/10) T00906010003 : Check Dam - Rock Check Dam.



PF: T009

SMA: T-SMA-7



Photo 8665-3r.JPG (taken 09/02/10) T00906010002 : Check Dam - Rock Check Dam; T00906010006 : Check Dam - Rock Check Dam.



Photo 8665-4r.JPG (taken 09/02/10) T00903060004 : Berms - Straw Wattles.



PF: T009

SMA: T-SMA-7



Photo 8665-5r.JPG (taken 09/02/10) T00901010005 : Seed and Mulch - Seed and Wood Mulch; T00902010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; T00903020008 : Berms - Base Course Berm.



PF: T010

SMA: T-SMA-7.1

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     | X                    | X                     |
| Check Dam               |                      | X                     |                      | X                     |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| T01003020005 | Berms                   | Base Course Berm                        | 8664-2r.JPG |    |     | X   | X  |
| T01003060003 | Berms                   | Straw Wattles                           | 8664-4r.JPG |    | X   |     | X  |
| T01003060004 | Berms                   | Straw Wattles                           | 8664-5r.JPG |    | X   |     | X  |
| T01006020006 | Check Dam               | Log Check Dam                           | 8664-1r.JPG |    | X   |     | X  |
| T01002010002 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8664-3r.JPG | X  |     |     |    |

Comments

None applicable.



Photo 8664-1r.JPG (taken 09/02/10) T01006020006 : Check Dam - Log Check Dam.



PF: T010

SMA: T-SMA-7.1



Photo 8664-2r.JPG (taken 09/02/10) T01003020005 : Berms - Base Course Berm.



Photo 8664-3r.JPG (taken 09/02/10) T01002010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.



PF: T010

SMA: T-SMA-7.1



Photo 8664-4r.JPG (taken 09/02/10) T01003060003 : Berms - Straw Wattles.



Photo 8664-5r.JPG (taken 09/02/10) T01003060004 : Berms - Straw Wattles.



## ENCLOSURE 7

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### Certification of Completion of Baseline Control Measures for 1 Site Monitoring Area in the Pajarito Watershed

December 16, 2010

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ENV-RCRA-10-244

LA-UR-10-08294



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**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS**

**NPDES Permit No. NM0030759**

| <b>PERMITTED FEATURE</b> | <b>SITE MONITORING AREA</b> |
|--------------------------|-----------------------------|
| J027                     | PJ-SMA-20                   |



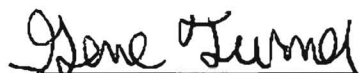
**CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION  
AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS****NPDES Permit No. NM0030759****CERTIFICATION STATEMENT OF AUTHORIZATION**

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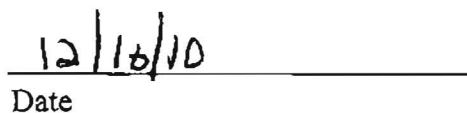
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs  
Group Leader, ENV-RCRA  
Environmental Protection Division  
Los Alamos National Laboratory

  
Date

Gene Turner, Environmental Permitting  
Los Alamos Site Office  
National Nuclear Security Administration

  
Date



PF: J027

SMA: PJ-SMA-20

Baseline Control Measures Required :

| Type of Control Measure | Erosion Control (EC) | Run-Off Control (ROF) | Run-On Control (RON) | Sediment Control (SC) |
|-------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Berms                   |                      | X                     |                      | X                     |
| Cap                     | X                    |                       | X                    |                       |
| Channel/Swale           | X                    | X                     |                      |                       |
| Established Vegetation  | X                    |                       |                      |                       |

Baseline Control Measures Installed :

| BMP ID       | Type of Control Measure | Control Measure                         | Photo ID    | EC | ROF | RON | SC |
|--------------|-------------------------|-----------------------------------------|-------------|----|-----|-----|----|
| J02703090001 | Berms                   | Curbing                                 | 8508-2r.JPG |    | X   |     | X  |
| J02708030005 | Cap                     | Concrete/Asphalt Cap                    | 8508-1r.JPG | X  |     | X   |    |
| J02704060006 | Channel/Swale           | Rip Rap                                 | 8508-3r.JPG | X  | X   |     |    |
| J02702010004 | Established Vegetation  | Permanent Vegetation Grasses and Shrubs | 8508-4r.JPG | X  |     |     |    |

Comments

None applicable.

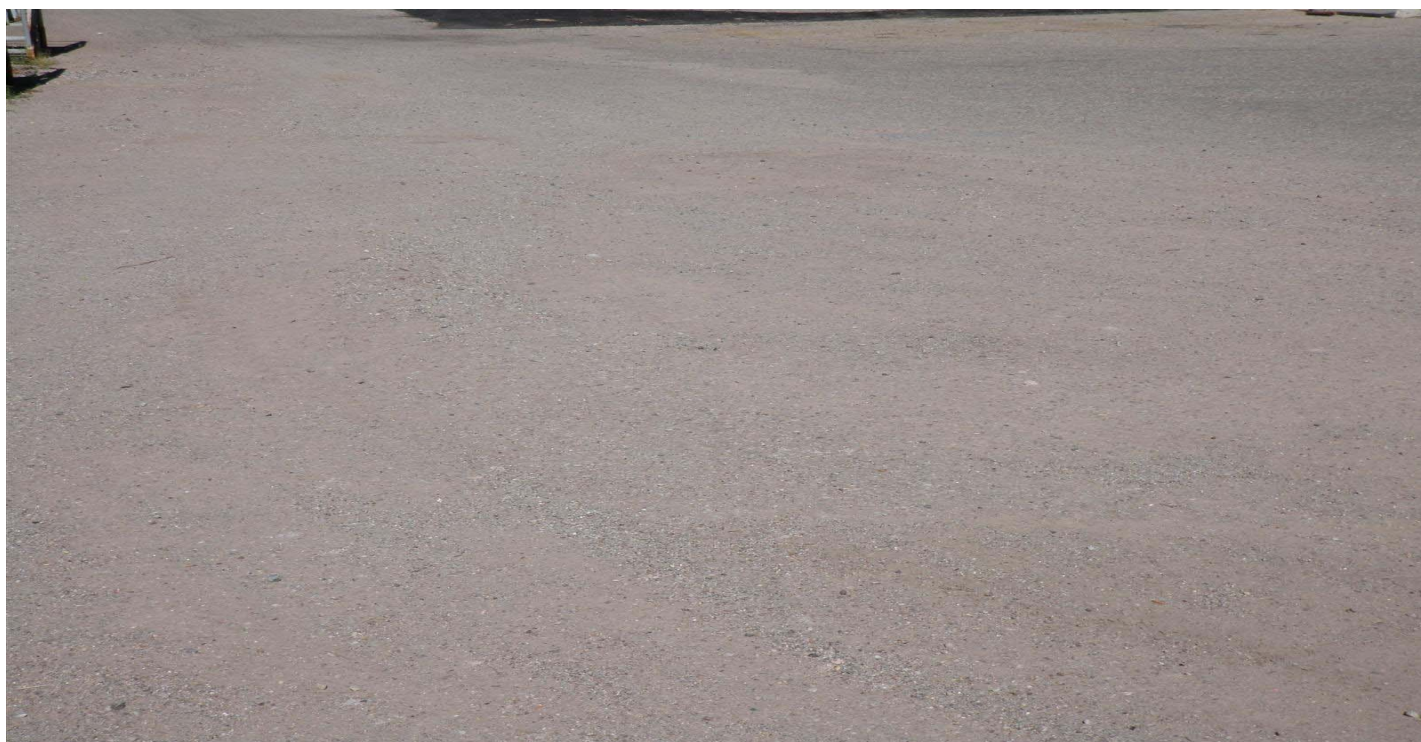


Photo 8508-1r.JPG (taken 08/20/10) J02708030005 : Cap - Concrete/Asphalt Cap.



PF: J027

SMA: PJ-SMA-20



Photo 8508-2r.JPG (taken 08/20/10) J02703090001 : Berms - Curbing.



Photo 8508-3r.JPG (taken 08/20/10) J02704060006 : Channel/Swale - Rip Rap.



**PF:** J027

**SMA:** PJ-SMA-20



Photo 8508-4r.JPG (taken 08/20/10) J02702010004 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.