



OCT 30 '15 PM 1:44



Associate Director for ESH
 Environment, Safety, and Health
 P.O. Box 1663, MS K491
 Los Alamos, New Mexico 87545
 505-667-4218/Fax 505-665-3811

Environmental Management
 Los Alamos Field Office, MS A316
 3747 West Jemez Road
 Los Alamos, New Mexico 87544
 (505) 665-5658/FAX (505) 606-2132

Date: **OCT 30 2015**
 Refer To: ADESH-15-158
 LAUR: on each SMA

Locates Action No.: N/A

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

Subject: NPDES Permit No. NM0030759 - Submittal of Certification of Installation of Enhanced Control Measures for Nine [9] Site Monitoring Areas

Dear Ms. Johnsey:

These documents are being submitted in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 for 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 E.1. (c), "Permittees shall certify completion of installation of control measures under this subsection to EPA within 30 days of completion of all such measures at the Site...."

Accordingly, the certification documentation for enhanced control measures completed at nine site monitoring areas (SMAs) is enclosed. The documentation is organized into SMA-specific reports (Table 1). Each report includes a signed certification statement, a list of the enhanced control measures installed at the SMA, a photograph of each enhanced control measure, and a site map. A copy of this report and the certified results are available from the "Regulatory Documents" link at the following website: <http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php>.

Table 1
List of SMAs in This Submittal of Certification
of Installation of Enhanced Control Measures

Site Number	SMA Number	Permitted Feature
02-003(b) 02-007 02-008(c)	LA-SMA-5.52	L018A
21-013(b) 21-021	LA-SMA-5.92	L019A
15-006(c)	3M-SMA-0.5	H0003
18-002(b) 18-003(c) 18-010(f)	3M-SMA-4	H006
40-009	PJ-SMA-9	J010
40-006(a)	PJ-SMA-10	J012
36-004(d)	PT-SMA-4.2	I007
33-004(g) 33-007(c) 33-009	CHQ-SMA-0.5	Q001
33-007(c)	CHQ-SMA-2	Q003

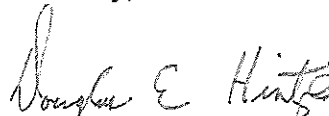
If you have any questions, please contact Terrill Lemke at (505) 665-2397 (tlemke@lanl.gov) or David Rhodes at (505) 665-5325 (david.rhodes@em.doe.gov).

Sincerely,



Alison M. Dorries, Division Leader
Environmental Protection Division
Los Alamos National Laboratory

Sincerely,



Douglas E. Hintze, Manager
Environmental Management
Los Alamos Field Office

AD/DH/BR/SV:sm

Attachments: One hard copy with electronic files – Certification of Installation of Enhanced Control Measures for Nine [9] Site Monitoring Areas (see individual document for LA-UR number)

Cy: (w/att.)
Bruce Yurdin, NMED-SWQB, P.O. Box 5469, Santa Fe, NM 87502
emla.docs@em.doe.gov, MS A316
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Sarah Holcomb, NMED-SWQB
Steve Yanicak, NMED-DOE-OB, MS M894
PRS Database

Cy: (w/o att./date-stamped letter emailed)
Everett Spencer, EPA Region 6
Brent Larsen, EPA Region 6
lasomailbox@nnsa.doe.gov
Kimberly Davis Lebak, DOE-NA-LA
Peter Maggiore, DOE-NA-LA
Karen Armijo, DOE-EM-LA
David Rhodes, DOE-EM-LA
Steve Veenis, ADEP ER Program
Bruce Robinson, ADEP ER Program
Terrill Lemke, ADESH-ENV-CP
Mike Saladen, ADESH-ENV-CP
Alison Dorries, ADESH-ENV-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

**Certification of Installation of
Enhanced Control Measures
at 3M-SMA-0.5**

LA-UR-15-27593

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LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)

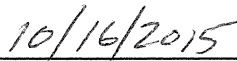
The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

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."



Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: H003

3M-SMA-0.5

Sites: 15-006(c)

Site 15-009(c) was not included in the report since it was included in the Alternative Compliance Request (LA-UR-15-22213) submitted to the U.S. EPA by LANL on 5/6/15. The enhanced control measure installations certified in this document apply to Site 15-006(c) at this SMA.

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for Site 15-006(c) within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
H00303010030	Berms	Earthen Berm	50573-21.jpg
H00304060018	Channel/Swale	Rip Rap	50573-9.jpg
H00306010019	Check Dam	Rock Check Dam	50573-10.jpg
H00306010020	Check Dam	Rock Check Dam	50573-11.jpg
H00306010021	Check Dam	Rock Check Dam	50573-12.jpg
H00306010022	Check Dam	Rock Check Dam	50573-13.jpg
H00306010023	Check Dam	Rock Check Dam	50573-14.jpg
H00306010024	Check Dam	Rock Check Dam	50573-15.jpg
H00306010025	Check Dam	Rock Check Dam	50573-16.jpg
H00306010026	Check Dam	Rock Check Dam	50573-17.jpg
H00306010027	Check Dam	Rock Check Dam	50573-18.jpg
H00306010028	Check Dam	Rock Check Dam	50573-19.jpg
H00306010029	Check Dam	Rock Check Dam	50573-20.jpg

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)

Photos:



Photo: 50573-10.jpg

H00306010019

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-11.jpg

H00306010020

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-12.jpg

H00306010021

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-13.jpg

H00306010022

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-14.jpg

H00306010023

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-15.jpg

H00306010024

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-16.jpg

H00306010025

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-17.jpg

H00306010026

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-18.jpg

H00306010027

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-19.jpg

H00306010028

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-20.jpg

H00306010029

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-21.jpg

H00303010030

Berms

- Earthen Berm

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H003

3M-SMA-0.5

Sites: 15-006(c)



Photo: 50573-9.jpg

H00304060018

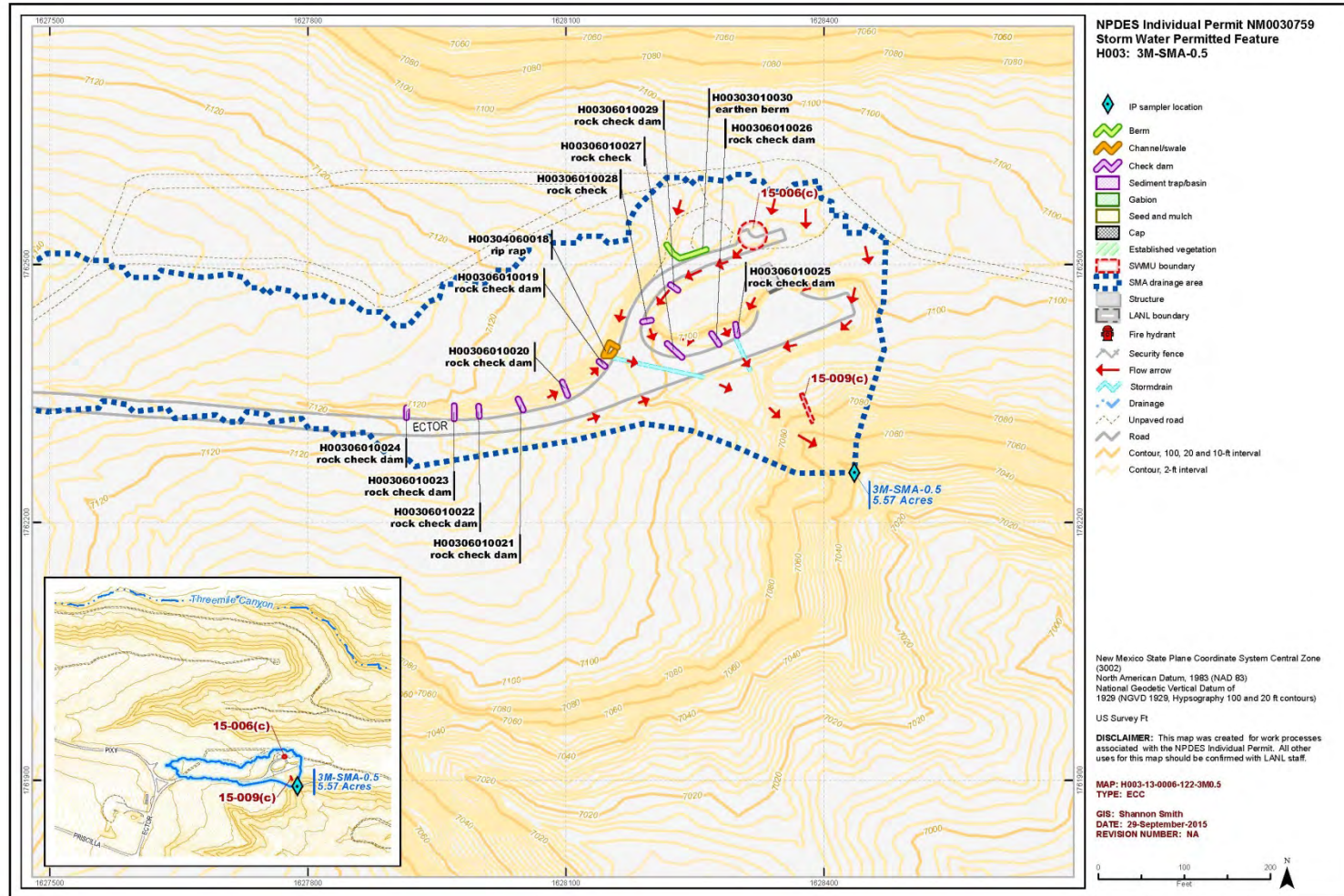
Channel/Swale

- Rip Rap

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
3M-SMA-0.5**

PF: H003

Sites: 15-006(c)



**Certification of Installation of
Enhanced Control Measures
at 3M-SMA-4**

LA-UR-15-27834

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LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)

The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

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."


Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC

10/16/2015
Date


Los Alamos Field Office
Environmental Management
U.S. Department of Energy

10-28-2015
Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
H00601010017	Seed and Mulch	Seed and Wood Mulch	50801-9.JPG
H00603010016	Berms	Earthen Berm	50801-11.JPG
H00604060013	Channel/Swale	Rip Rap	50801-10.JPG
H00604060015	Channel/Swale	Rip Rap	50801-12.JPG
H00606010011	Check Dam	Rock Check Dam	50801-7.JPG
H00607010012	Gabions	Gabions	50801-10.JPG
H00607010014	Gabions	Gabions	50801-12.JPG
H00608030018	Cap	Concrete/Asphalt Cap	50801-13.JPG

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)

Photos:



Photo: 50801-10.JPG

H00604060013 Channel/Swale
H00607010012 Gabions

- Rip Rap
- Gabions

NPDES PERMIT NO. NM0030759

LA-UR-15-27834

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)



Photo: 50801-11.JPG

H00603010016

Berms

- Earthen Berm

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)



Photo: 50801-12.JPG

H00604060015 Channel/Swale
H00607010014 Gabions

- Rip Rap
- Gabions

NPDES PERMIT NO. NM0030759

LA-UR-15-27834

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)



Photo: 50801-13.JPG

H00608030018

Cap

- Concrete/Asphalt Cap

NPDES PERMIT NO. NM0030759

LA-UR-15-27834

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)



Photo: 50801-7.JPG

H00606010011

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: H006

3M-SMA-4

Sites: 18-002(b)
18-003(c)
18-010(f)



Photo: 50801-9.JPG

H00601010017

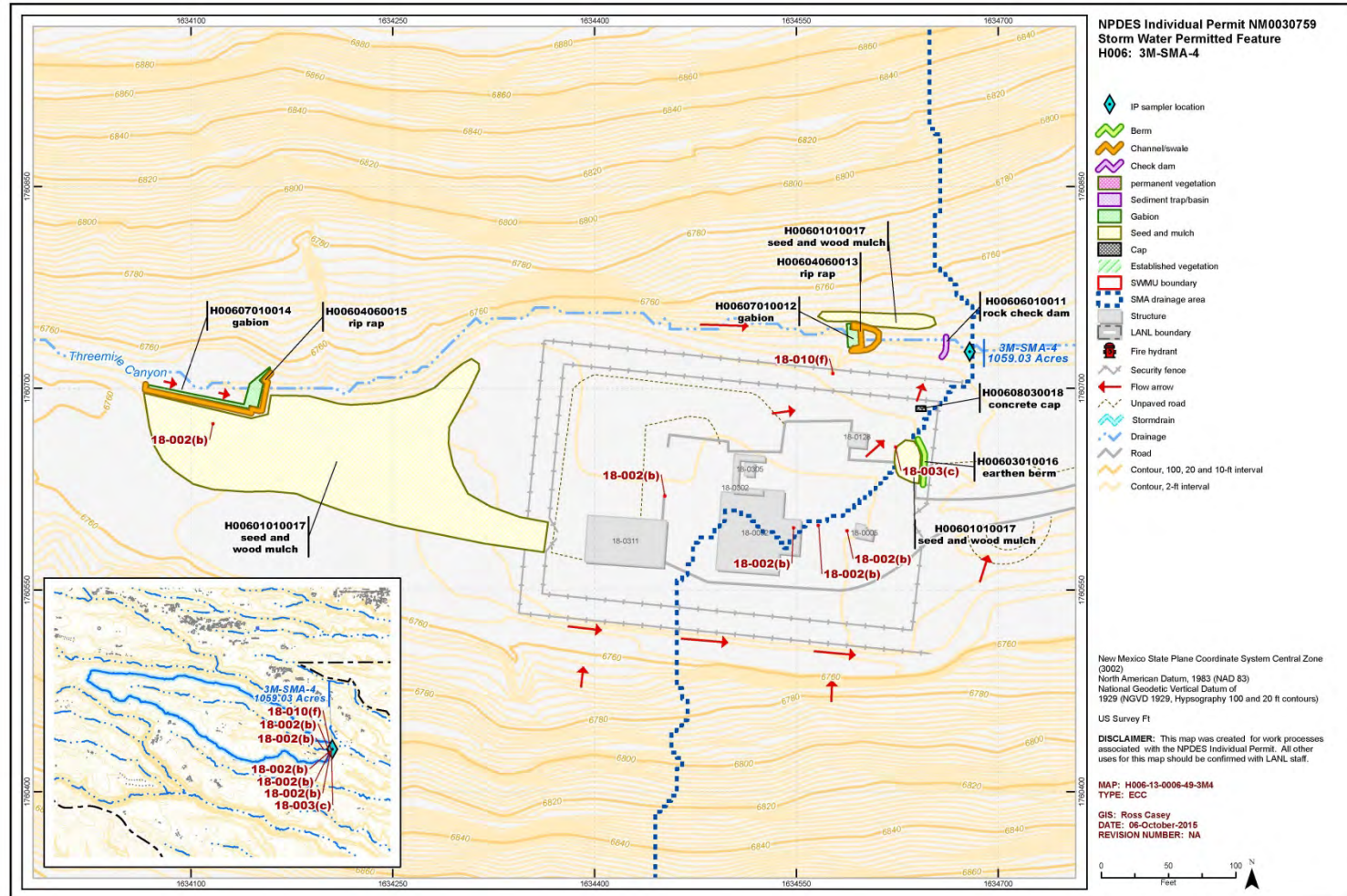
Seed and Mulch

- Seed and Wood Mulch

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
3M-SMA-4**

PF: H006

**Sites: 18-002(b)
18-003(c)
18-010(f)**



**Certification of Installation of
Enhanced Control Measures
at CHQ-SMA-0.5**

LA-UR-15-27510

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LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q001

CHQ-SMA-0.5

Sites: 33-004(g)
33-007(c)
33-009

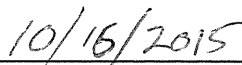
The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

CERTIFICATION STATEMENT OF AUTHORIZATION

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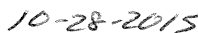
Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: Q001

CHQ-SMA-0.5

Sites: 33-004(g)
33-007(c)
33-009

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
Q00103010010	Berms	Earthen Berm	50558-7.JPG
Q00103010011	Berms	Earthen Berm	50558-8.JPG
Q00103140009	Berms	Coir Log	50558-6.JPG

NPDES PERMIT NO. NM0030759

LA-UR-15-27510

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q001

CHQ-SMA-0.5

Sites: 33-004(g)
33-007(c)
33-009

Photos:



Photo: 50558-6.JPG

Q00103140009

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27510

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q001

CHQ-SMA-0.5

Sites: 33-004(g)
33-007(c)
33-009



Photo: 50558-7.JPG

Q00103010010

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27510

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q001

CHQ-SMA-0.5

Sites: 33-004(g)
33-007(c)
33-009



Photo: 50558-8.JPG

Q00103010011

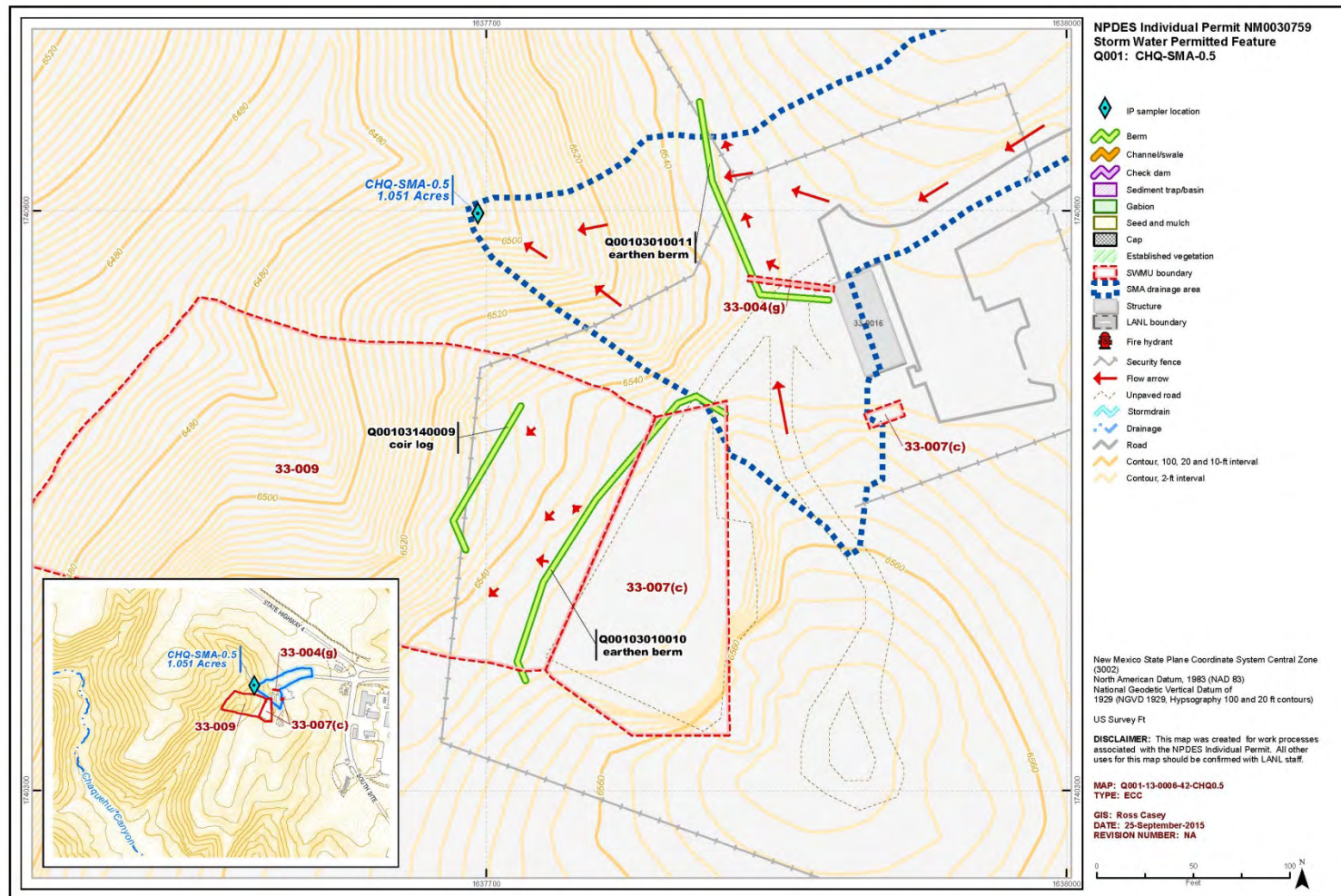
Berms

- Earthen Berm

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
CHQ-SMA-0.5**

PF: Q001

**Sites: 33-004(g)
33-007(c)
33-009**



**Certification of Installation of
Enhanced Control Measures
at CHQ-SMA-2**

LA-UR-15-27943

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LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)

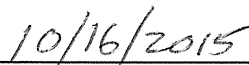
The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

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Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)

Sites 33-004(d) and C-33-003 are not included in the report since they were included in the Alternative Compliance Request submitted to the U.S. EPA by LANL on 5/6/15. The enhanced control measure installations certified in this document apply to the remaining Site at this SMA.

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
Q00303010030	Berms	Earthen Berm	50559-7.JPG
Q00303020028	Berms	Base Course Berm	50559-6.JPG
Q00303020029	Berms	Base Course Berm	50559-5.JPG
Q00303020053	Berms	Base Course Berm	50559-2.JPG
Q00303020054	Berms	Base Course Berm	50559-26.JPG
Q00303140031	Berms	Coir Log	50559-8.JPG
Q00303140032	Berms	Coir Log	50559-8.JPG
Q00303140033	Berms	Coir Log	50559-8.JPG
Q00303140034	Berms	Coir Log	50559-8.JPG
Q00306010035	Check Dam	Rock Check Dam	50559-10.JPG
Q00306010036	Check Dam	Rock Check Dam	50559-11.JPG
Q00306010037	Check Dam	Rock Check Dam	50559-12.JPG
Q00306010038	Check Dam	Rock Check Dam	50559-14.JPG
Q00306010039	Check Dam	Rock Check Dam	50559-15.JPG
Q00306010040	Check Dam	Rock Check Dam	50559-16.JPG
Q00306010041	Check Dam	Rock Check Dam	50559-17.JPG

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES****PF: Q003****CHQ-SMA-2****Sites: 33-007(c)**

Q00306010042	Check Dam	Rock Check Dam	50559-17.JPG
Q00306010043	Check Dam	Rock Check Dam	50559-17.JPG
Q00306010044	Check Dam	Rock Check Dam	50559-17.JPG
Q00306010045	Check Dam	Rock Check Dam	50559-19.JPG
Q00306010046	Check Dam	Rock Check Dam	50559-20.JPG
Q00306010047	Check Dam	Rock Check Dam	50559-20.JPG
Q00306010048	Check Dam	Rock Check Dam	50559-21.JPG
Q00306010050	Check Dam	Rock Check Dam	50559-23.JPG
Q00306010051	Check Dam	Rock Check Dam	50559-23.JPG
Q00306010052	Check Dam	Rock Check Dam	50559-24.JPG

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)

Photos:



Photo: 50559-10.JPG

Q00306010035

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-11.JPG

Q00306010036

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-12.JPG

Q00306010037

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-14.JPG

Q00306010038

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-15.JPG

Q00306010039

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-16.JPG

Q00306010040

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-17.JPG

Q00306010041	Check Dam	- Rock Check Dam
Q00306010042	Check Dam	- Rock Check Dam
Q00306010043	Check Dam	- Rock Check Dam
Q00306010044	Check Dam	- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-19.JPG

Q00306010045

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-2.JPG

Q00303020053

Berms

- Base Course Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-20.JPG

Q00306010046 Check Dam
Q00306010047 Check Dam

- Rock Check Dam
- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-21.JPG

Q00306010048

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-23.JPG

Q00306010050 Check Dam

- Rock Check Dam

Q00306010051 Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-24.JPG

Q00306010052

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-26.JPG

- Base Course Berm

Q00303020054 Berms

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-5.JPG

Q00303020029

Berms

- Base Course Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-6.JPG

Q00303020028

Berms

- Base Course Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



Photo: 50559-7.JPG

Q00303010030

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27943

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: Q003

CHQ-SMA-2

Sites: 33-007(c)



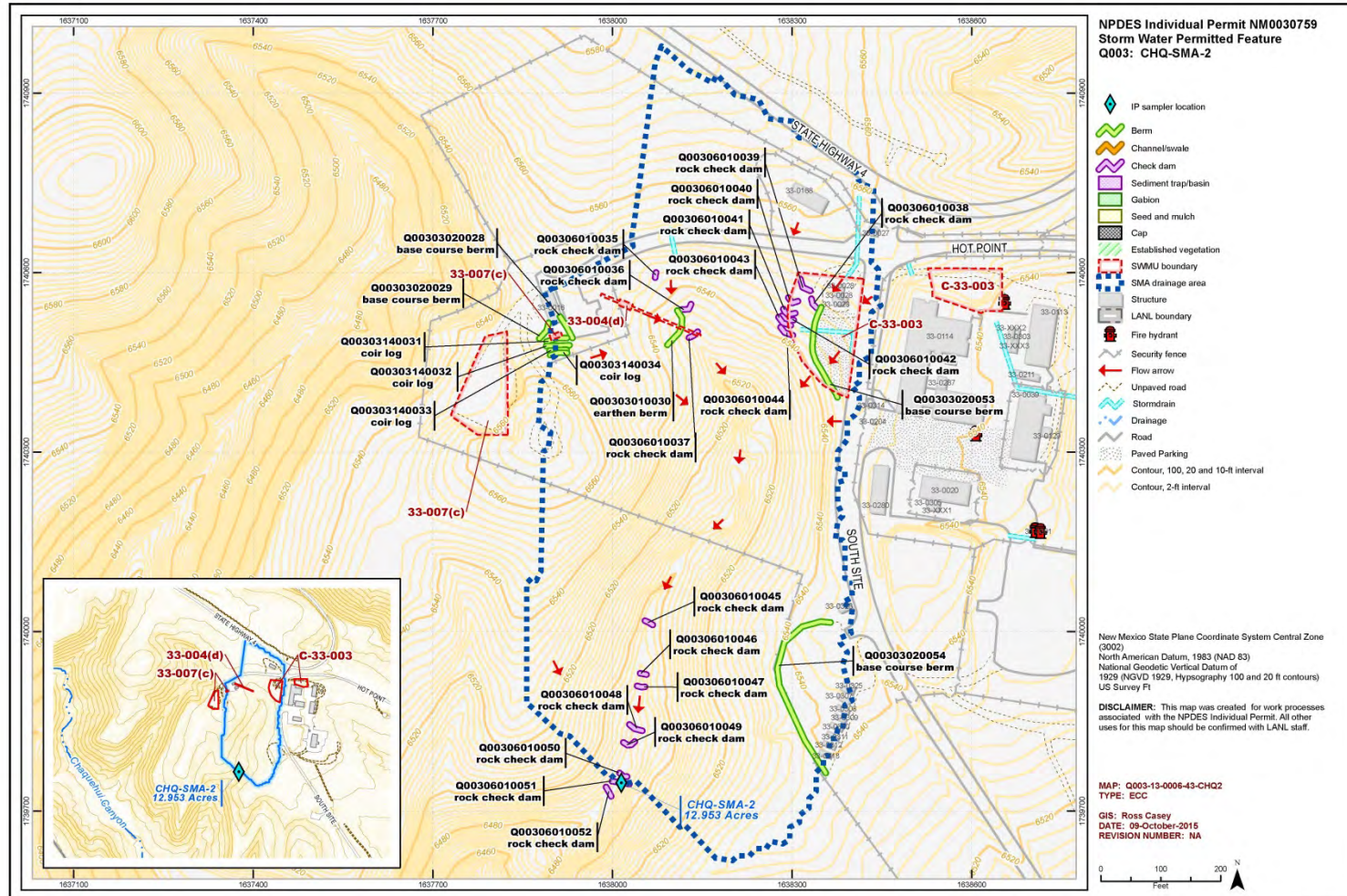
Photo: 50559-8.JPG

Q00303140031	Berms	- Coir Log
Q00303140032	Berms	- Coir Log
Q00303140033	Berms	- Coir Log
Q00303140034	Berms	- Coir Log

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
CHQ-SMA-2**

PF: Q003

Sites: 33-007(c)



**Certification of Installation of
Enhanced Control Measures
at LA-SMA-5.52**

LA-UR-15-27650

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)

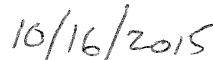
The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

CERTIFICATION STATEMENT OF AUTHORIZATION

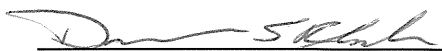
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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."



Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
L018A01060021	Seed and Mulch	Erosion Control Blanket	50641-15.jpg
L018A03010009	Berms	Earthen Berm	50641-4.jpg
L018A03140011	Berms	Coir Log	50641-6.jpg
L018A03140012	Berms	Coir Log	50641-7.jpg
L018A03140013	Berms	Coir Log	50641-8.jpg
L018A03140014	Berms	Coir Log	50641-9.jpg
L018A03140015	Berms	Coir Log	50641-10.jpg
L018A03140016	Berms	Coir Log	50641-11.jpg
L018A03140017	Berms	Coir Log	50641-11.jpg
L018A03140018	Berms	Coir Log	50641-12.jpg
L018A03140019	Berms	Coir Log	50641-13.jpg
L018A06010010	Check Dam	Rock Check Dam	50641-5.jpg
L018A06010020	Check Dam	Rock Check Dam	50641-14.jpg

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)

Photos:



Photo: 50641-10.jpg

L018A03140015

Berms

- Coir Log

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-11.jpg

L018A03140016 Berms

- Coir Log

L018A03140017 Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-12.jpg

L018A03140018

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-13.jpg

L018A03140019

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-14.jpg

L018A06010020

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-15.jpg

L018A01060021

Seed and Mulch

- Erosion Control Blanket

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-4.jpg
L018A03010009 Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-5.jpg

L018A06010010 Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-6.jpg
L018A03140011 Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-7.jpg
L018A03140012 Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-8.jpg

L018A03140013

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L018A

LA-SMA-5.52

Sites: 02-003(b)
02-007
02-008(c)



Photo: 50641-9.jpg
L018A03140014 Berms

- Coir Log

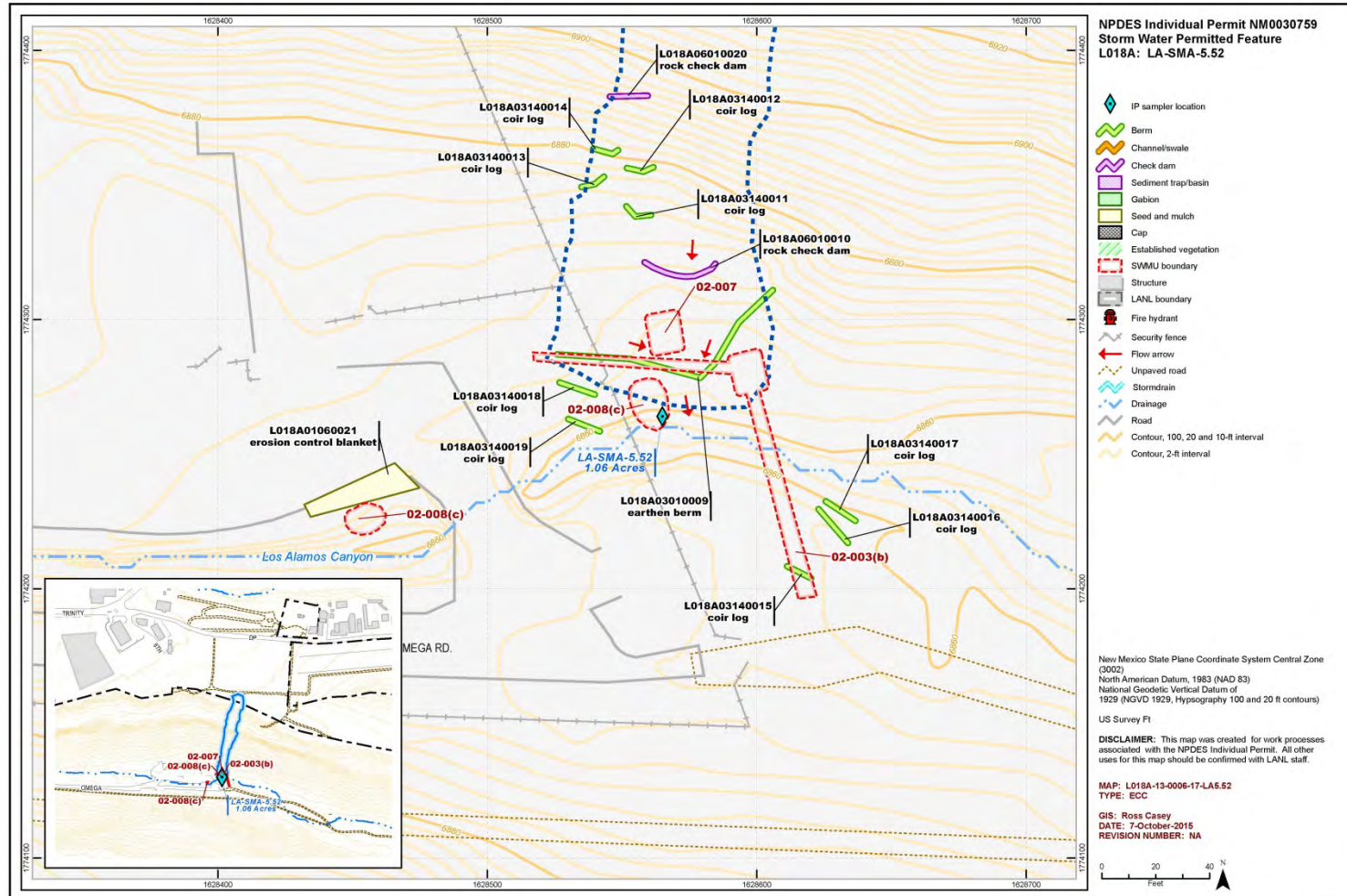
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LA-UR-15-27650

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
LA-SMA-5.52

PF: L018A

Sites: 02-003(b)
02-007
02-008(c)



**Certification of Installation of
Enhanced Control Measures
at LA-SMA-5.92**

LA-UR-15-27835

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)

The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

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."



Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: L019A**LA-SMA-5.92****Sites: 21-021
21-013(b)**

Site 21-013(g) is associated with LA-SMA-5.92, however, a Certificate of Completion was issued by NMED for this Site on 06/03/2011. The request to NMED for a Certificate of Completion was submitted by LANL on 05/13/2011. Site 21-018(a) is associated with LA-SMA-5.92, however, a Certificate of Completion was issued by NMED for this Site on 06/03/2011. The request to NMED for a Certificate of Completion was submitted by LANL on 05/13/2011. The enhanced control measure installations certified in this document apply to the remaining Sites at this SMA.

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
L019A03010020	Berms	Earthen Berm	50799-12.JPG
L019A03020012	Berms	Base Course Berm	50799-5.JPG
L019A03030021	Berms	Log Berm	50799-13.JPG
L019A03030022	Berms	Log Berm	50799-15.JPG
L019A04010019	Channel/Swale	Earthen Channel/Swale	50799-11.JPG
L019A04060011	Channel/Swale	Rip Rap	50799-4.JPG
L019A04060013	Channel/Swale	Rip Rap	50799-6.JPG
L019A06010014	Check Dam	Rock Check Dam	50799-6.JPG
L019A06010015	Check Dam	Rock Check Dam	50799-7.JPG
L019A06010016	Check Dam	Rock Check Dam	50799-8.JPG
L019A06010017	Check Dam	Rock Check Dam	50799-8.JPG
L019A06010018	Check Dam	Rock Check Dam	50799-9.JPG

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)

Photos:



Photo: 50799-11.JPG

L019A04010019 Channel/Swale

- Earthen Channel/Swale

NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-12.JPG

L019A03010020

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-13.JPG

L019A03030021

Berms

- Log Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-15.JPG

L019A03030022

Berms

- Log Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-4.JPG

L019A04060011

Channel/Swale

- Rip Rap

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-5.JPG
L019A03020012 Berms

- Base Course Berm

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-6.JPG

L019A04060013 Channel/Swale
L019A06010014 Check Dam

- Rip Rap
- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-7.JPG

L019A06010015

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-8.JPG

L019A06010016 Check Dam
L019A06010017 Check Dam

- Rock Check Dam
- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: L019A

LA-SMA-5.92

Sites: 21-021
21-013(b)



Photo: 50799-9.JPG

L019A06010018 Check Dam

- Rock Check Dam

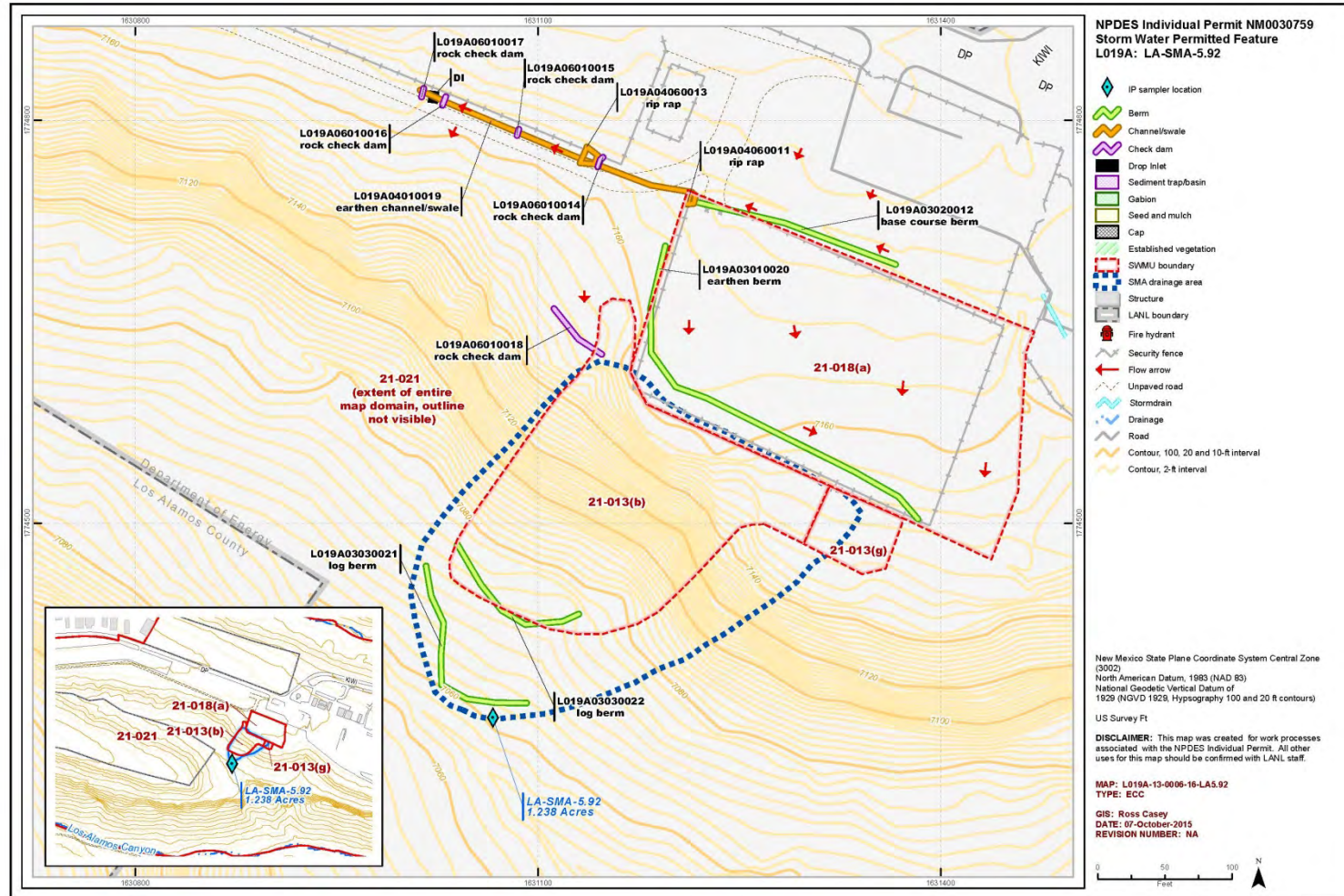
NPDES PERMIT NO. NM0030759

LA-UR-15-27835

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
LA-SMA-5.92

PF: L019A

Sites: 21-021
21-013(b)



**Certification of Installation of
Enhanced Control Measures
at PJ-SMA-9**

LA-UR-15-27399

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: J010

PJ-SMA-9

Sites: 40-009

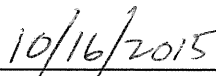
The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

CERTIFICATION STATEMENT OF AUTHORIZATION

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Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES****PF: J010****PJ-SMA-9****Sites: 40-009**

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
J01001030022	Seed and Mulch	Hydromulch	50417-3.JPG
J01003010016	Berms	Earthen Berm	50417-1.JPG
J01003010017	Berms	Earthen Berm	50417-12.JPG
J01003010018	Berms	Earthen Berm	50417-2.JPG
J01003010019	Berms	Earthen Berm	50417-10.JPG
J01003140021	Berms	Coir Log	50417-4.JPG
J01004060020	Channel/Swale	Rip Rap	50417-9.JPG

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009

Photos:



Photo: 50417-1.JPG

J01003010016

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27399

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009



Photo: 50417-10.JPG

J01003010019

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27399

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009



Photo: 50417-12.JPG

J01003010017

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27399

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009



Photo: 50417-2.JPG

J01003010018

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27399

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009



Photo: 50417-3.JPG

J01001030022

Seed and Mulch

- Hydromulch

NPDES PERMIT NO. NM0030759

LA-UR-15-27399

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009



Photo: 50417-4.JPG

J01003140021

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27399

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J010

PJ-SMA-9

Sites: 40-009



Photo: 50417-9.JPG

J01004060020

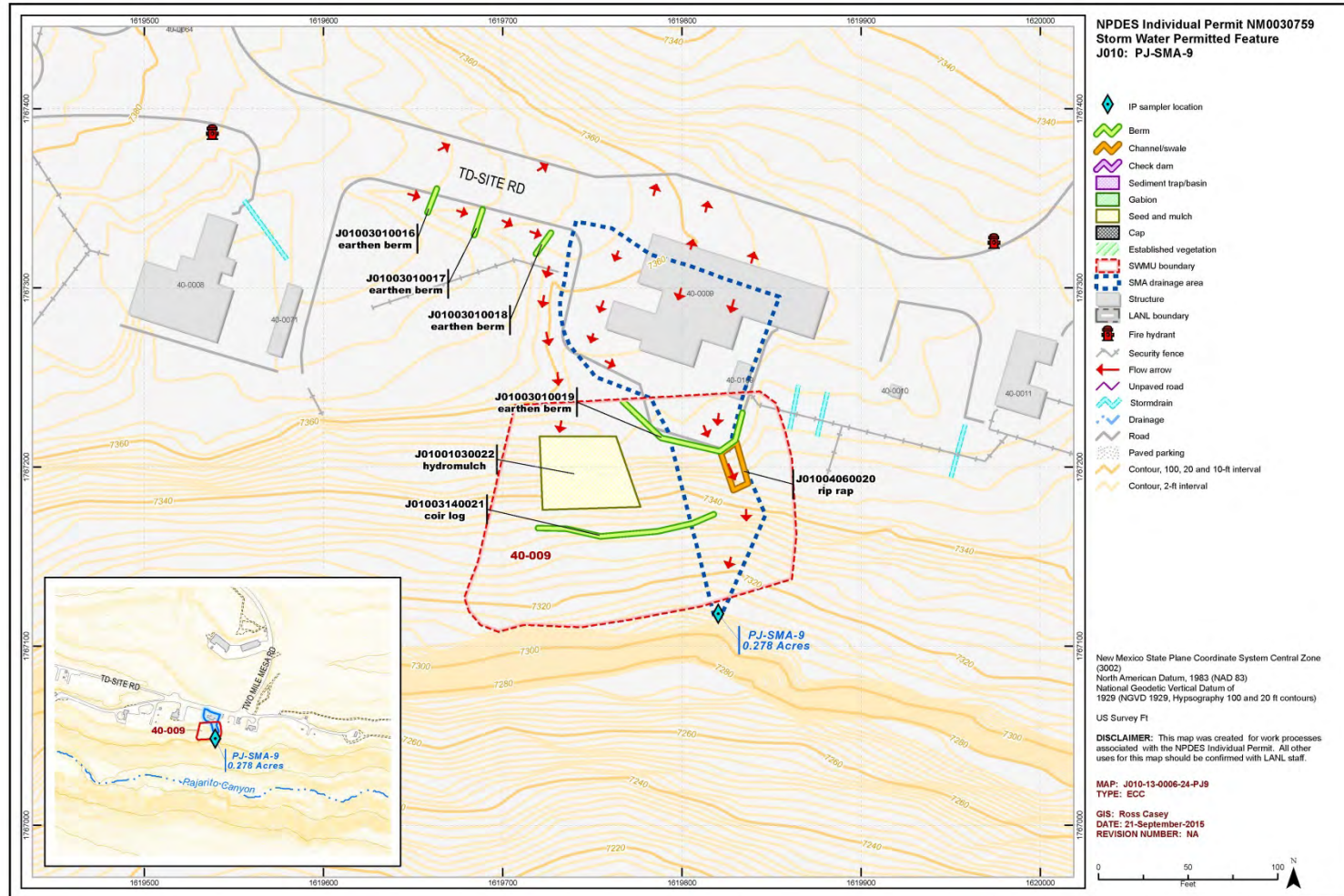
Channel/Swale

- Rip Rap

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
PJ-SMA-9**

PF: J010

Sites: 40-009



**Certification of Installation of
Enhanced Control Measures
at PJ-SMA-10**

LA-UR-15-27793

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: J012

PJ-SMA-10

Sites: 40-006(a)

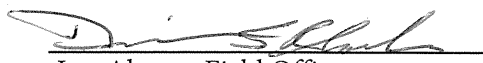
The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

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."


Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC

10/16/2015
Date


Los Alamos Field Office
Environmental Management
U.S. Department of Energy

10-28-2015
Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: J012

PJ-SMA-10

Sites: 40-006(a)

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
J01201060027	Seed and Mulch	Erosion Control Blanket	50419-13.JPG
J01203140018	Berms	Coir Log	50419-6.JPG
J01203140019	Berms	Coir Log	50419-6.JPG
J01203140020	Berms	Coir Log	50419-7.JPG
J01203140028	Berms	Coir Log	50419-14.JPG
J01203140029	Berms	Coir Log	50419-15.JPG
J01204030030	Channel/Swale	Rock Channel/Swale	50419-2.JPG
J01204050016	Channel/Swale	Water Bar	50419-4.JPG
J01206010011	Check Dam	Rock Check Dam	50419-3.JPG
J01206010012	Check Dam	Rock Check Dam	50419-3.JPG
J01206010013	Check Dam	Rock Check Dam	50419-3.JPG
J01206010014	Check Dam	Rock Check Dam	50419-3.JPG
J01206010015	Check Dam	Rock Check Dam	50419-3.JPG
J01206010017	Check Dam	Rock Check Dam	50419-5.JPG
J01206010021	Check Dam	Rock Check Dam	50419-8.JPG
J01206010022	Check Dam	Rock Check Dam	50419-9.JPG
J01206010023	Check Dam	Rock Check Dam	50419-10.JPG

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: J012

PJ-SMA-10

Sites: 40-006(a)

J01206010024	Check Dam	Rock Check Dam	50419-11.JPG
J01206010025	Check Dam	Rock Check Dam	50419-10.JPG
J01206010026	Check Dam	Rock Check Dam	50419-12.JPG
J01206010031	Check Dam	Rock Check Dam	50419-3.JPG

Photos:

**Photo:** 50419-10.JPG

J01206010023	Check Dam	- Rock Check Dam
J01206010025	Check Dam	- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-11.JPG

J01206010024

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-12.JPG

J01206010026

Check Dam

- Rock Check Dam

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-13.JPG

J01201060027

Seed and Mulch

- Erosion Control Blanket

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-14.JPG

J01203140028

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-15.JPG

J01203140029

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-2.JPG

J01204030030

Channel/Swale

- Rock Channel/Swale

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-3.JPG

J01206010011	Check Dam	- Rock Check Dam
J01206010012	Check Dam	- Rock Check Dam
J01206010013	Check Dam	- Rock Check Dam
J01206010014	Check Dam	- Rock Check Dam
J01206010015	Check Dam	- Rock Check Dam
J01206010031	Check Dam	- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-4.JPG

J01204050016

Channel/Swale

- Water Bar

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-5.JPG

J01206010017

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-6.JPG

J01203140018

Berms

- Coir Log

J01203140019

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-7.JPG

J01203140020

Berms

- Coir Log

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-8.JPG

J01206010021

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27793

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: J012

PJ-SMA-10

Sites: 40-006(a)



Photo: 50419-9.JPG

J01206010022

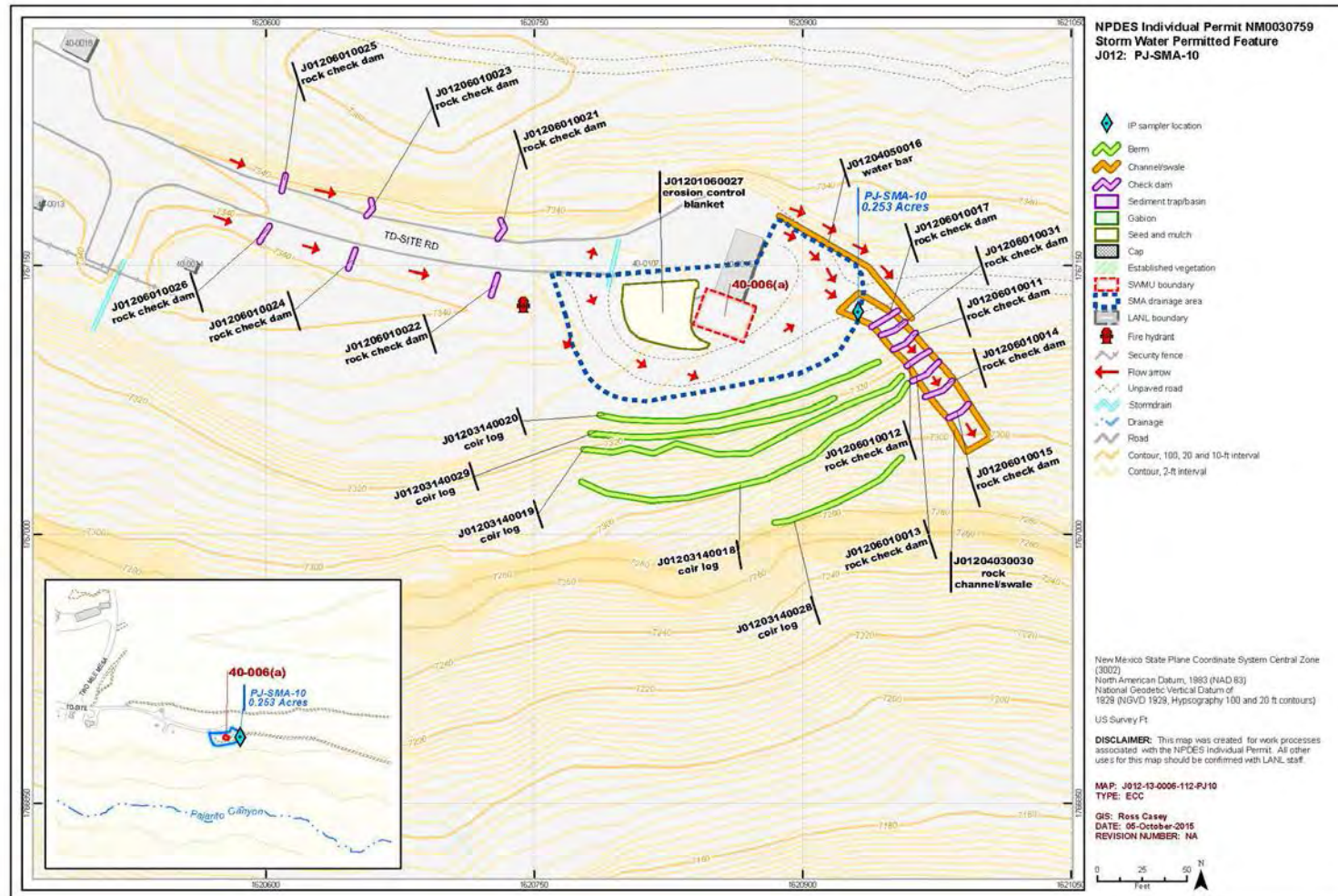
Check Dam

- Rock Check Dam

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
PJ-SMA-10**

PF: J012

Sites: 40-006(a)



**Certification of Installation of
Enhanced Control Measures
at PT-SMA-4.2**

LA-UR-15-27921

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: I007

PT-SMA-4.2

Sites: 36-004(d)

The following certification was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1 (c), which requires the Permittees (i.e. DOE and LANS) to certify the completion of the installation of control measures within 30 days of completion of the installation of all such measures at the site.

CERTIFICATION STATEMENT OF AUTHORIZATION

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Environmental Programs
Environmental Remediation
Los Alamos National Security, LLC



Date



Los Alamos Field Office
Environmental Management
U.S. Department of Energy



Date

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**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: I007

PT-SMA-4.2

Sites: 36-004(d)

In accordance with Part I.E.1 (a), the design, installation, and documentation of enhanced control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within the identified SMA drainage area have been completed.

Enhanced Control Measure Description:			
BMP ID	Type of Control Measure	Control Measure	Photo ID
I00701060021	Seed and Mulch	Erosion Control Blanket	50326-18.JPG
I00703010014	Berms	Earthen Berm	50326-7.JPG
I00703010022	Berms	Earthen Berm	50326-13.JPG
I00703010024	Berms	Earthen Berm	50326-15.JPG
I00703010025	Berms	Earthen Berm	50326-15.JPG
I00703010026	Berms	Earthen Berm	50326-16.JPG
I00703010027	Berms	Earthen Berm	50326-17.JPG
I00703010028	Berms	Earthen Berm	50326-17.JPG
I00703010029	Berms	Earthen Berm	50326-17.JPG
I00703140015	Berms	Coir Log	50326-8.JPG
I00703140016	Berms	Coir Log	50326-9.JPG
I00703140017	Berms	Coir Log	50326-10.JPG
I00703140018	Berms	Coir Log	50326-11.JPG
I00703140019	Berms	Coir Log	50326-12.JPG
I00703140020	Berms	Coir Log	50326-19.JPG
I00704050023	Channel/Swale	Water Bar	50326-14.JPG
I00704060034	Channel/Swale	Rip Rap	50326-13.JPG

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES**

PF: I007**PT-SMA-4.2****Sites: 36-004(d)**

I00706010010	Check Dam	Rock Check Dam	50326-3.JPG
I00706010011	Check Dam	Rock Check Dam	50326-4.JPG
I00706010012	Check Dam	Rock Check Dam	50326-5.JPG
I00706010013	Check Dam	Rock Check Dam	50326-6.JPG
I00706010031	Check Dam	Rock Check Dam	50326-13.JPG
I00706010032	Check Dam	Rock Check Dam	50326-13.JPG
I00706010033	Check Dam	Rock Check Dam	50326-13.JPG

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)

Photos:



Photo: 50326-10.JPG

I00703140017

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-11.JPG

I00703140018

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF:I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-12.JPG

I00703140019

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF:I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-13.JPG

I00703010022	Berms	- Earthen Berm
I00704060034	Channel/Swale	- Rip Rap
I00706010031	Check Dam	- Rock Check Dam
I00706010032	Check Dam	- Rock Check Dam
I00706010033	Check Dam	- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-14.JPG

I00704050023

Channel/Swale

- Water Bar

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-15.JPG

I00703010024 Berms

- Earthen Berm

I00703010025 Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-16.JPG

I00703010026

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-17.JPG

I00703010027	Berms	- Earthen Berm
I00703010028	Berms	- Earthen Berm
I00703010029	Berms	- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-18.JPG

I00701060021

Seed and Mulch

- Erosion Control Blanket

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-19.JPG

I00703140020

Berms

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-3.JPG

I00706010010

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-4.JPG

I00706010011

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF:I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-5.JPG

I00706010012

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-6.JPG

I00706010013

Check Dam

- Rock Check Dam

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-7.JPG

I00703010014

Berms

- Earthen Berm

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-8.JPG

I00703140015

Berm

- Coir Log

NPDES PERMIT NO. NM0030759

LA-UR-15-27921

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES

PF: I007

PT-SMA-4.2

Sites: 36-004(d)



Photo: 50326-9.JPG

I00703140016

Berms

- Coir Log

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ENHANCED CONTROL MEASURES
PT-SMA-4.2**

PF: I007

Sites: 36-004(d)

