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Date: MAR 04 2016

Refer To: ADESH-16-014

LAUR: 16-20865

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 Completion of Corrective Action for One Site [53-008] Following Analytical Results below Target Action Levels at LA-SMA-10.12

Dear Ms. Johnsey:

This document is 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.2.(a):

Analytical results from confirmation sampling show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable target action levels [TALs].


Enclosed is the certification that corrective action is complete following analytical results below TALs from two confirmation samples collected from two measurable storm events occurring at least 15 days apart for Site 53-008 within LA-SMA-10.12. Table 1 below identifies the Site, site monitoring area, baseline sample collection date, and corrective action sample collection dates applicable to the certification. The certification that corrective action is complete was prepared in accordance with 40 Code of Federal Regulations 122.22(b). This letter and certification can be accessed at the following website: <http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php>.

Table 1
Confirmation Samples Collected at One Site
from Two Measurable Storm Events with Results below TALs

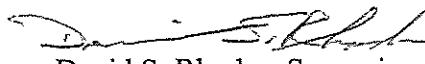
Site Number	SMA Number	Permitted Feature	Sample Collection Dates
53-008	LA-SMA-10.12	L030A	September 1, 2011 (Baseline) September 12, 2013 (Corrective Action) July 20, 2015 (Corrective Action)

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,


 John P. McCann, Acting Division Leader
 Environmental Protection & Compliance Division
 Los Alamos National Laboratory

Sincerely,


 David S. Rhodes, Supervisor
 Environmental Management
 Los Alamos Field Office

JM/DH/BR/SV:sm

Attachment: One hard copy with electronic files – Certification of Completion of Corrective Action for One Site [53-008] Following Analytical Results below Target Action Levels at LA-SMA-10.12 (EP2016-0011)

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: (w/electronic att.)

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
 Tadz Kostrubala, ADEM ER Program
 Steve Veenis, ADEM ER Program
 Bruce Robinson, ADEM ER Program
 Terrill Lemke, ADESH-EPC-CP
 John McCann, ADESH-EPC-DO
 Michael Brandt, ADESH
 Amy De Palma, PADOPS
 Craig Leasure, PADOPS

**Submittal of Certification of Completion of
Corrective Action for One Site [53-008] Following
Analytical Results below Target Action Levels
at LA-SMA-10.12**

March 4, 2016

NPDES PERMIT NO. NM0030759

**LA-UR-16-20865
EP2016-0011**

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF COMPLETION OF CORRECTIVE ACTION**

PF: L030A

LA-SMA-10.12

Site: 53-008

The following certification of completion of corrective action was performed in accordance with NPDES Permit No. NM0030759, Part I.E.2, which requires the Permittees (i.e., DOE and LANS) to certify the completion of corrective action.

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."



Associate Directorate of Environmental Management
Environmental Remediation Program
Los Alamos National Laboratory



Date



Environmental Management
U.S. Department of Energy



Date

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF COMPLETION OF CORRECTIVE ACTION**

PF: L030A

LA-SMA-10.12

Site: 53-008

Tables 1 and 2 present the analytical results received from the confirmation samples collected from two measurable storm events occurring at least 15 days apart following the installation of enhanced controls at site monitoring area (SMA) LA-SMA-10.12. Tables 3 and 4 present analytical results received from the sample collected following installation of baseline controls. Table 5 presents each applicable target action level (TAL) for the analytes monitored.

Comparison of the baseline monitoring analytical results (Tables 3 and 4) with the TALs indicates that only gross alpha exceeded its TAL during this stage. The holding time for cyanide was exceeded; therefore, monitoring requirements for cyanide were not fulfilled. Following certification of the installation of enhanced controls on November 30, 2012 (EP2012-0296/LA-UR-12-26392), monitoring for gross alpha and cyanide was continued. Analytical results from confirmation samples (Tables 1 and 2) indicate no TALs were exceeded, and therefore, corrective action at Site 53-008 at LA-SMA-10.12 is complete per Part I, Section E.2.(a) of the Individual Permit.

**Table 1
Radiochemical Analytical Results from
Two Measurable Storm Events at LA-SMA-10.12**

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	Minimum Detectable Activity	Uncertainty	Qualifier*	Sample Collection Date
WT_IPC-15-101964	Gross alpha	Unfiltered	Detect	4.36	2.9	1.0	NQ	07/20/2015
WT_IPC-13-32140	Gross alpha	Unfiltered	Detect	4.07	2.74	0.951	NQ	09/12/2013

Note: Results, minimum detectable activity, and uncertainty are in pCi/L.

* Qualifier: NQ = Result is not qualified.

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF COMPLETION OF CORRECTIVE ACTION**

PF: L030A

LA-SMA-10.12

Site: 53-008

**Table 2
Metals and Organic Analytical Results from
Two Measurable Storm Events at LA-SMA-10.12**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	Method Detection Limit	Quantitation Limit	Qualifier*	Sample Collection Date
WT_IPC-15-101964	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	2.14	5	U	07/20/2015
WT_IPC-13-32140	Cyanide, weak acid dissociable	Unfiltered	Nondetect	5	1.67	5	U	09/12/2013

Note: Results, method detection limit, and quantitation limit are in µg/L.

* Qualifier: U = Result is not detected.

**Table 3
Radiochemical Analytical Results from the Sample Collected after
Installation of Baseline Controls at LA-SMA-10.12**

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	Uncertainty	Minimum Detectable Activity	Qualifier*	Sample Collection Date
WT_IPLAP-11-10512	Gross alpha	Unfiltered	Detect	23	3.5	3.0	NQ	9/1/2011
WT_IPLAP-11-10512	Radium-226 and Radium-228	Unfiltered	Detect	2.05	0.58	1.42	NQ	9/1/2011

Note: Results, minimum detectable activity, and uncertainty are in pCi/L.

* Qualifier: NQ = Result is not qualified.

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF COMPLETION OF CORRECTIVE ACTION**

PF: L030A

LA-SMA-10.12

Site: 53-008

**Table 4
Metals and Organic Analytical Results from the
Sample Collected after Installation of Baseline Controls at LA-SMA-10.12**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	Method Detection Limit	Quantitation Limit	Qualifier	Data Receipt Date
WT_IPLAP-11-10510	Silver	Filtered	Nondetect	0.2	0.2	1	U ^a	9/1/2011
WT_IPLAP-11-10510	Aluminum	Filtered	Detect	211	15	50	NQ ^b	9/1/2011
WT_IPLAP-11-10510	Arsenic	Filtered	Nondetect	1.7	1.7	5	U	9/1/2011
WT_IPLAP-11-10510	Boron	Filtered	Detect	32	15	50	J ^c	9/1/2011
WT_IPLAP-11-10510	Cadmium	Filtered	Nondetect	0.11	0.11	1	U	9/1/2011
WT_IPLAP-11-10510	Cobalt	Filtered	Detect	4.7	1	5	J	9/1/2011
WT_IPLAP-11-10510	Chromium	Filtered	Nondetect	2	2	10	U	9/1/2011
WT_IPLAP-11-10510	Copper	Filtered	Detect	2.2	0.35	1	NQ	9/1/2011
WT_IPLAP-11-10510	Hardness	Filtered	Detect	22.9	0.15	0.5	NQ	9/1/2011
WT_IPLAP-11-10510	Nickel	Filtered	Detect	1.3	0.5	2	J	9/1/2011
WT_IPLAP-11-10510	Lead	Filtered	Detect	1.6	0.5	2	J	9/1/2011
WT_IPLAP-11-10510	Antimony	Filtered	Nondetect	1	1	3	UJ ^d	9/1/2011
WT_IPLAP-11-10510	Thallium	Filtered	Nondetect	0.45	0.45	2	U	9/1/2011
WT_IPLAP-11-10510	Vanadium	Filtered	Detect	2.3	1	5	J	9/1/2011
WT_IPLAP-11-10510	Zinc	Filtered	Detect	3.5	3.3	10	J	9/1/2011
WT_IPLAP-11-10512	Cyanide, weak acid dissociable	Unfiltered	Nondetect	1.5	1.5	5	UJ	9/1/2011
WT_IPLAP-11-10512	Mercury	Unfiltered	Nondetect	0.066	0.066	0.2	U	9/1/2011
WT_IPLAP-11-10512	Selenium	Unfiltered	Nondetect	1.5	1.5	5	U	9/1/2011

Note: Results, method detection limit, and quantitation limit are in µg/L.

^a Qualifier: U = Result is not detected.

^b Qualifier: NQ = Result is not qualified.

^c Qualifier: J = The associated numerical value is an estimated quantity.

^d Qualifier: UJ = Material was analyzed for, but not detected. Value is an estimate.

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF COMPLETION OF CORRECTIVE ACTION**

PF: L030A

LA-SMA-10.12

Site: 53-008

**Table 5
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Aluminum, dissolved	µg/L	7429-90-5	2.5	n/a*	750
Antimony, dissolved	µg/L	7440-36-0	60	640	n/a
Arsenic, dissolved	µg/L	7440-38-2	0.5	9	340
Boron, dissolved	µg/L	7440-42-8	100	5000	n/a
Cadmium, dissolved	µg/L	7440-43-9	1	n/a	0.6
Chromium, dissolved	µg/L	7440-47-3	10	n/a	210
Cobalt, dissolved	µg/L	7440-48-4	50	1000	n/a
Copper, dissolved	µg/L	7440-40-8	0.5	n/a	4.3
Cyanide, weak acid dissociable	µg/L	57-12-5	10	5.2	22
Lead, dissolved	µg/L	7439-92-1	0.5	n/a	17
Mercury	µg/L	7439-97-6	0.005	0.77	1.4
Nickel, dissolved	µg/L	7440-02-0	0.5	n/a	170
Selenium	µg/L	7782-49-2	5	5	20
Silver, dissolved	µg/L	7440-22-4	0.5	n/a	0.4
Thallium, dissolved	µg/L	7440-28-0	0.5	6.3	n/a
Vanadium, dissolved	µg/L	7440-62-2	50	100	n/a
Zinc, dissolved	µg/L	7440-66-6	20	n/a	42
Gross alpha	pCi/L	n/a	n/a	15	n/a
Radium-226 and Radium-228	pCi/L	n/a	n/a	30	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level;
MTAL = maximum TAL; ATAL = average TAL.

*n/a = Value is not applicable.