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Date: MAR 06 2017

Refer To: ADESH-17-022

LAUR: 17-21129

Locates Action No.: n/a

Paulette Johnsey, Chief
Water Enforcement Branch (6EN-WS)
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 - Analytical Results from the First Measurable Storm Event Following Certification of Enhanced Control Measures at PJ-SMA-10

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), the

Permittees shall certify completion of installation of control measures under this subsection to EPA [the U.S. Environmental Agency] within 30 days of completion of all such measures at the Site and, where applicable shall provide sampling results within 30 days of receipt of analytical results from the first measurable storm event after completion of such measures....

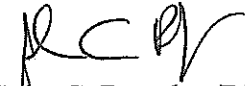
Accordingly, the analytical results from a sample collected during the first measurable storm event received for one site monitoring area (PJ-SMA-10) in the last 30 days are enclosed (Attachment 1). The results had previously been submitted electronically to the U.S. Environmental Protection Agency on January 12, 2017. This certified document can be accessed at the following website <http://www.lanl.gov/> and searching under the key words "Individual Permit."

**Confirmation Samples Collected at Site from the First Measurable Storm Event after
Certification of Installation of Enhanced Controls**

Watershed	Priority	Site Number	SMA Number	Permitted Feature	Sample Collection Date	Final Validation Date
Pajarito	Moderate	40-006(a)	PJ-SMA-10	J012	7/31/2016	12/14/2016

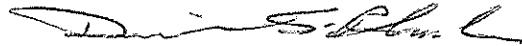
If you have any questions, please contact Terrill Lemke at (505) 665-2397 (tlemke@lanl.gov) or David Rhodes at (505) 665-5325 (david.rhodes@em.doe.gov).

Sincerely,



John C. Bretzke, Division Leader
Environmental Protection & Compliance
Los Alamos National Laboratory

Sincerely,



David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office

JB/DR/BR/SV:sm

Attachments: One hard copy with electronic files – Analytical Results from the First Measurable Storm Event Following Certification of Enhanced Control Measures at PJ-SMA-10 (see individual document for LA-UR number)

Cy: (w/att.)

Sarah Holcomb, NMED-SWQB, P. O. Box 5469, Santa Fe, NM 87502

Cy: (w/electronic att.)

Laurie King, EPA Region 6, Dallas, TX
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emla.docs@em.doe.gov
Tadz Kostrubala, ADEM ER Program
Terrill Lemke, ADESH-EPC-CP
Public Reading Room (EPRR)
ADESH Records
PRS Database

Cy: (w/o att./date-stamped letter emailed)

Robert Houston, EPA Region 6
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Kimberly Davis Lebak, DOE-NA-LA
Peter Maggiore, DOE-NA-LA
David Rhodes, DOE-EM-LA
Steve Veenis, ADEM ER Program
Bruce Robinson, ADEM ER Program
Mike Saladen, ADESH-EPC-CP
John Bretzke, ADESH-EPC-DO
Michael Brandt, ADESH
William Mairson, PADOPS
Craig Leasure, PADOPS

**Analytical Results from the First Measurable
Storm Event Following Certification of
Enhanced Control Measures
at PJ-SMA-10**

March 6, 2017

NPDES PERMIT NO. NM0030759

LA-UR-17-21129

LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ANALYTICAL RESULTS

PF: J012


PJ-SMA-10

Site: 40-006(a)

The following certification of analytical results received from the confirmation monitoring samples collected after the completion of the installation of enhanced controls was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1.


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
Los Alamos National Laboratory

2/16/2017
Date



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

3-3-2017
Date

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ANALYTICAL RESULTS**

PF: J012

PJ-SMA-10

Site: 40-006(a)

Tables 1 and 2 present the analytical results received from the confirmation monitoring samples collected from the first measurable storm event on July 31, 2016, at site monitoring area (SMA) PJ-SMA-10 following the installation and certification of enhanced controls. Samples were collected for analysis of gross alpha and dissolved copper. The initial dissolved copper analysis was mistakenly performed using an unfiltered sample. The analytical measurement for the reanalysis of dissolved copper was requested and received and validated on November 4, 2016. Because of a configuration error that has since been corrected, Los Alamos National Laboratory data stewards were notified on December 14, 2016, that analytical results for PJ-SMA-10 had been received. The descriptions and photographs of each enhanced control installed at PJ-SMA-10 were provided to the U.S. Environmental Protection Agency on October 30, 2015 (ADESH-15-158/LA-UR-15-27793). Table 3 presents each applicable target action levels (TALs) for the analytes monitored.

**Table 1
Radiochemical Analytical Results from the First Measurable Storm Event
Collected on July 31, 2016, Following Installation of Enhanced Controls at PJ-SMA-10**

Sample ID	Analyte	Field Preparation	Detect Status	Result (pCi/L)	TAL Exceedance Ratio ^a	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier ^b	Data Validation Date
WT_IPC-16-115663	Gross alpha	Unfiltered	Detect	68.1	4.5	6.7	3.98	NQ	08/31/2016

^a TAL exceedance ratio is the result divided by the applicable TAL.

^b Qualifier: NQ = Result is not qualified.

**LOS ALAMOS NATIONAL LABORATORY
CERTIFICATION OF ANALYTICAL RESULTS**

PF: J012

PJ-SMA-10

Site: 40-006(a)

Table 2

**Metals and Inorganic Analytical Results from the First Measurable Storm Event
Collected on July 31, 2016, Following the Installation of Enhanced Controls at PJ-SMA-10**

Sample ID	Analyte	Field Preparation	Detect Status	Result (µg/L)	TAL Exceedance Ratio ^a	Report Method Detection Limit (µg/L)	Report Quantitation Limit (µg/L)	Validation Qualifier ^b	Notification of Data Validation Date
WT_IPC-16-115663F	Copper	Filtered	Detect	3.33	0.77	0.35	1	NQ	12/14/2016

^a TAL exceedance ratio is the result divided by the applicable TAL.

^b Qualifier: NQ = Result is not qualified.

Table 3

Applicable TALs

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Gross alpha	pCi/L	n/a*	n/a	15	n/a
Copper	µg/L	7440-50-8	0.5	n/a	4.3

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

* n/a – Value is not applicable.