

**Analytical Results from the First Measurable
Storm Event Following Installation of Control
Measures at LA-SMA-10.12**

November 19, 2013

NPDES PERMIT NO. NM0030759

LA-UR-13-28736

**LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM THE FIRST MEASURABLE STORM EVENT**

PF: L030A

LA-SMA-10.12

Site: 53-008

Tables 1 and 2 present the analytical results received from the confirmation monitoring samples collected from the first measurable storm event following the installation of enhanced controls at site monitoring area (SMA) LA-SMA-10.12. The descriptions and photographs of each enhanced control installed at LA-SMA-10.12 were provided to the U.S. Environmental Protection Agency on December 13, 2012 (EP2012-0296/LA-UR-12-26589). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

Table 1

Radiochemical Analytical Results from the First Measurable Storm Event

Collected on September 12, 2013, Following Installation of Enhanced Controls, SMA LA-SMA-10.12

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	TAL Exceedance Ratio ^a	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier ^b	Data Receipt Date
WT_IPC-13-32140	Gross alpha	Unfiltered	Detect	4.07	0.271	2.74	0.951	NQ	10/21/13

^a Preliminary average TAL (ATAL) exceedance ratio from first of two possible samples.

^b Qualifier: NQ = Result is not qualified.

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Table 2

**Metals and Organic Analytical Results from the First Measurable Storm Event
Collected on September 12, 2013, Following Installation of Enhanced Controls, SMA LA-SMA-10.12**

Sample ID	Analyte	Field Prep	Detect Status	Result (mg/L)	TAL Exceedance Ratio ^a	Method Detection Limit (mg/L)	Quantitation Limit (mg/L)	Qualifier ^b	Data Receipt Date
WT_IPC-13-32140	Cyanide, weak acid dissociable	Unfiltered	Nondetect	0.005	n/a ^c	0.00167	0.005	U	10/21/13

^a Preliminary ATAL exceedance ratio from first of two possible samples.

^b Qualifier: U = Result is not detected.

^c n/a = Value is not applicable.

**Table 3
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Cyanide, weak acid dissociable	µg/L	57-12-5	10	5.2	22
Gross alpha	pCi/L	n/a*	n/a	15	n/a

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

* n/a = Value is not applicable.