

**Analytical Results from the First Measurable  
Storm Event Following Installation of Control  
Measures at 2M-SMA-1.44**

**November 19, 2013**

**NPDES PERMIT NO. NM0030759**

**LA-UR-13-28728**



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

PF: E004

2M-SMA-1.44

Site: 06-001(b)

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) 2M-SMA-1.44. The descriptions and photographs of each enhanced control installed at 2M-SMA-1.44 were provided to the U.S. Environmental Protection Agency on July 25, 2012 (EP2012-0178/LA-UR-12-22519). 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 2M-SMA-1.44**

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	TAL Exceedance Ratio <sup>a</sup>	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier <sup>b</sup>	Data Receipt Date
WT_IPC-13-32474	Gross alpha	Unfiltered	Detect	4	0.267	3.39	1.12	NQ	10/28/13

<sup>a</sup> Preliminary average TAL (ATAL) exceedance ratio from first of two possible samples.

<sup>b</sup> Qualifier: NQ = Result is not qualified.

Table 2

**Metals and Organic Analytical Results from the First Measurable Storm Event**

**Collected on September 12, 2013, Following Installation of Enhanced Controls, SMA 2M-SMA-1.44**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio <sup>a</sup>	Method Detection Limit (µg/L)	Quantitation Limit (µg/L)	Qualifier <sup>b</sup>	Data Receipt Date
WT_IPC-13-32120	Copper	Filtered	Detect	39.5	9.186	0.35	1	NQ	10/28/13

<sup>a</sup> Preliminary ATAL exceedance ratio from first of two possible samples.

<sup>b</sup> Qualifier: NQ = Result is not qualified.

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**Table 3  
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Copper, Dissolved	µg/L	7440-40-8	0.5	n/a*	4.3
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