

**Analytical Results from the First Measurable
Storm Event Following Installation of Control
Measures at CDB-SMA-1**

November 19, 2013

NPDES PERMIT NO. NM0030759

LA-UR-13-28732

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

PF: C004

CDB-SMA-1

Sites: 46-003(c)
46-004(d2)
46-004(f)
46-004(t)
46-004(w)
46-008(g)
46-009(a)
C-46-001

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) CDB-SMA-1. The descriptions and photographs of each enhanced control installed at CDB-SMA-1 were provided to the U.S. Environmental Protection Agency on August 27, 2012 (EP2012-0199/LA-UR-12-23233). 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 13, 2013, Following Installation of Enhanced Controls, SMA CDB-SMA-1**

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-13-32481	Gross alpha	Unfiltered	Detect	71.5	4.767	4.68	3.29	NQ	10/28/13

^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 13, 2013, Following Installation of Enhanced Controls, SMA CDB-SMA-1**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio ^a	Method Detection Limit (µg/L)	Quantitation Limit (µg/L)	Qualifier ^b	Data Receipt Date
WT_IPC-13-32108	Aluminum	Filtered	Detect	367	0.489	15	50	NQ	10/28/13
WT_IPC-13-32108	Copper	Filtered	Detect	2.81	0.653	0.35	1	NQ	11/5/13
WT_IPC-13-32481	Total polychlorinated biphenyl (PCB)	Unfiltered	Detect	0.0721	112.656	n/a ^c	n/a	NQ	11/1/13

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

^b Qualifier: NQ = Result is not qualified.

^c n/a = Value is not applicable.

**Table 3
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Aluminum, Dissolved	µg/L	7429-90-5	2.5	n/a*	750
Copper, Dissolved	µg/L	7440-40-8	0.5	n/a	4.3
Total PCB	µg/L	1336-36-3	n/a	0.00064	n/a
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.