Los Alamos Environmental Restoration Records Processing Facility

ER Record I.D.# 62923

LOS ALAMOS NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION
Records Processing Facility
ER Records Index Form

ER ID NO. 62923 ***Date Received:*** 4/7/99 ***Processor:*** YCA ***Page Count:*** 7

Privileged: (Y/N) N ***Record Category:*** P ***Record Package No:*** 0

FileFolder: N/A

Correction: (Y/N) N ***Corrected No.*** 0 ***Corrected By Number:*** 0

Administrative Record: (Y/N) Y

Refilmed: (Y/N) N ***Old ER ID Number:*** 0 ***New ER ID Number:*** 0

Miscellaneous Comments:

REFERENCE CITED

7247

THIS FORM IS SUBJECT TO CHANGE. CONTACT THE RPF FOR LATEST VERSION. (JUNE 1997)

Results of XRF-Screening on soil from the Bridge Area. January 28, 1999

ID.	Pb in ppm		
99-0005	28	XRF-9N	29
99-0006	74	XRF-10N	ND*
99-0007	ND*	XRF-11N	125
99-0008	200	XRF-12N	28
XRF-1N	398	XRF-13N	ND*
XRF-2N	484	XRF-14N	57
XRF-3N	182	XRF-15N	26
XRF-4N	3616	XRF-16N	17
XRF-5N	61	XRF-17N	29
XRF-6N	ND*	XRF-18N	20
XRF-7N	50	XRF-19N	253
XRF-8N	13	XRF-20N	73

ND*= non detect.

VG 1/28/99

Screened by Vincent E. Garcia, ESH-19.

The instrument used to screen the soils collected from around the bridge is a Spectrace 9000 portable XRF analyzer, manufactured by TN Technologies Inc.

The Spectrace 9000 uses a High Resolution HgI_2 (mercuric iodide) x-ray detector. There are three excitation sources used; Am^{241} Cd^{109} Fe^{55}.

There was a 200sec. count time with each source for a total count time of 600sec. The samples were run under the "Soils U, Th and Ag" application.

The samples were prepared at TA-59 room 172. Each sample was placed in a open petri dish and allowed to air dry. Once the samples were dry, a clean tongue depressor was used to place ~5grams of soil into an XRF sampling cup. The XRF sampling cup was then covered with mylar to complete the process. The Pb results were recorded in Lab Note book 026955.

XRF - Screening Samples From Bridge For Steve Calhoun

1S - 112 ppm Pb
2S - 117
3S - 144
4S - 148
5S - 180
6S - 177
7S - 80
8S - 35
9S - 49
10S - 23
11S = 58
12S - 72
13S - Below detection limit

Samples were collected on 01/20/99.

PREFIX
(XRF) - 1S

0001 - 97
0002 - 285
0003 - NON-DETECT.
0004 NON-DETECT

Prefix
(RE00-99) - 0001

ppm for Pb

Teflon blank - 4.4
Teflon blank 2 -

PACS 1 -

01/26/99 XRF Screening For Steve Calhoun
At North Slope.

I.D.
99-0005-28 ppm Pb
99-0006-74
99-0007-11 N/D
99-0008-200

ID.	ppm Pb	ID.	PPM Pb
1N-398		11N	125
2N-484		12N	28
3N-182		13N	N/D
4N-3616		14N	57
5N-61		15N	26
6N-11 N/D		16N	17
7N-50		17N	29
8N-13		18N	20
9N-29		19N	253
10N-ND		20N	

Took sample 4N and submitted it to Esth-5's Larry Ortiz. Mr. Ortiz was able to find a small paint Chip in the soil.

Samples were and paint chips were returned to Steve Calhoun 2/99.

Paint Chips from Bridge

Ran paint chips that were collected from Omega Canyon Bridge on 01/26/99.

Ran without Quartz block - 63,462 ppm Pb.
Ran with Quartz block - 92,363 ppm Pb.

Took a Non-detect Pb Sample from earlier set of soil Samples. Sample # 99-0003 was Non detect for Pb. Next took Pestel & Morter and ground up paint chips as small as possible and mixed with soil.

Soil and Paint chips mix gives a Pb reading of 5,780 ppm.

7

ER ID

Memos and notes from ESH-18 regarding XRF analyses.

APR 0 7 1999