



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

FROM: 49 CES/CEE
550 Tabosa Avenue
Holloman AFB, New Mexico 88330-8458

03 NOV 1993

SUBJ: Repair Wherry Windows/Improve Military Family Housing Phase I

TO: New Mexico Environment Department
Hazardous Waste and Radioactive Materials Bureau
Attn: Mr Ed Horst
525 Camino de Los Marquez
Santa Fe, New Mexico 87502



1. We have completed the Toxicity Characteristics Leaching Procedure (TCLP) Lead testing for subject projects. A total of 10 samples were analyzed. All came back far below the 5 ppm threshold. TCLP/Pb testing conformed to EPA method 7420. TCLP Single-Phase Extract conformed to EPA method 1311. Quality Control Data is listed on page 5 of the test report. The complete test report, from Monteverde Environmental Consultants, Inc., is attached (Atch 1). A copy of the Holloman AFB Statement of Work is also attached (Atch 2).

2. One sample was obtained from an aluminum framed window in housing unit 2277. A section of the frame with glass was cut into small pieces and placed into a sample container. Representative portions of caulking, glazing, mortar, masonry, and paint were scraped off and also placed into the container. The other nine samples were obtained from construction demolition debris, which consisted of paint, gypsum board, soffit, wood, nails, paneling, tile, carpet, and several other types of building material commonly found in construction. The debris resulted from the interior demolition of buildings 2021, 2022, and 2023, which are large, multiple-family living units.

3. Based on the test results, we will not treat the demolition debris from the above projects as a hazardous waste. However, all debris will be removed and disposed of as asbestos-containing material. If you have any questions concerning this issue, please contact John Hamann at 505-475-5491.


HOWARD E. MOFFITT
Deputy Base Civil Engineer

2 Atchs
1. Test Report
2. Statement of Work



Monteverde

Environmental Consultants, Inc.

John Hamann
 Holloman Air Force Base
 49th Contracting Division
 Holloman Air Force Base, New Mexico

Post-It™ brand fax transmittal memo 7671		# of pages ▶ 2
To <i>Donna</i>	From <i>Steve Mung</i>	
Co. <i>Engineering</i>	Co. <i>Monteverde</i>	
Dept.	Phone # <i>296-9261</i>	
Fax # <i>475-7015</i>	Fax # <i>296-9304</i>	

Dear John:

19 October, 1993

Enclosed, you will find the TCLP-Pb analytical results of the construction debris samples taken from four units at Holloman AFB on October 14, 1993.

As indicated in the results (summarized in Table 1), all of the samples have levels of lead that are either below the analytical detection limit, or are below the Maximum Allowable Concentration of 5 parts per million (ppm) for classification as hazardous waste under 40 CFR 261.24 (b).

Please contact me at (505) 296-9261 if you have any questions or require additional information.

Sincerely,

FOR

Steve Gunther
 Vice President of Chemical Services

Attachments

Sample #	Date Taken	Time Taken	Location	Analytical Result (ppm)
9310140930	10/14/93	0930	Unit 2277	< 0.5
9310141300 - 2	10/14/93	1300	Unit 2021	< 0.5
9310141300 - 3	10/14/93	1300	Unit 2021	0.8
9310141300 - 4	10/14/93	1300	Unit 2021	0.6
9310141300 - 5	10/14/93	1300	Unit 2021	< 0.5
93101041300	10/14/93	1300	Unit 2022	< 0.5
9310141320 - 7	10/14/93	1320	Unit 2021	< 0.5
9310141320 - 8	10/14/93	1320	Unit 2021	< 0.5
9310141330	10/14/93	1330	Unit 2023	< 0.5
9310141315	10/14/93	1315	Unit 2023	< 0.5

Table 1: Summary of analytical results, HAFB debris TCLP-Pb sampling



ANACHEM INC.

8 Prestige Circle, Suite 104 • Allen, Texas 75002
214/727-9003 • FAX # 214/727-9686 • 1-800-968-1166

Customer Name: Monteverde Env. Consultants
Date Received: October 18, 1993 at 10:41:27
Date Reported: October 19, 1993
Submission #: 9310000154
Project: HAFB/TCLP

SAMPLES: The submission consisted of 10 samples with sample I.D.'s shown in the attached data tables.

TESTS: The samples were analyzed for:
* MICROWAVE DIGESTION
* TCLP LEAD/Pb (EPA 7420)
* TCLP SINGLE-PHASE EXTRACT. (EPA 1311)

RESULTS: See attached data table for results.

Distribution Of Reports:
2-Monteverde Env. Consultants
Attn: Steve Guntor
Ph. 505-296-9261 Fax 505-296-9304
LAB NUMBER: 9310000154 lms

Respectfully Submitted,
Anachem, Inc.

C.E. Newton, Ph.D.
Chemist

NOTE: Submitted material will be retained for 90 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualities of apparently identical or similar materials.

Report to: Monteverde Environmental
Lab Number: 9310154
Page 5 of 5

Project: HAFB/TCLP

QUALITY CONTROL DATA

<u>ANALYTE</u>	<u>DATE ANALYZED</u>	<u>STANDARD DEV.</u>	<u>COEFF. OF VARIABILITY %</u>	<u>REC1/%</u>	<u>REC2/%</u>
TCLP Lead	10/19/93	0.007	0.8	89	90

Standard Deviation = $(x1-x2)/1.414$
 Coefficient of Variability % = $(S.D./Avg.) \times 100$
 Recovery % = $[(spiked-unsiked)/expected] \times 100$

Attach 1
1 of 7

Report to: Monteverde Env. Consultants
Submission #: 9310000154
Project: HAFB/TCLP
Date Reported: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted: 10/19/93

Client Sample #: 9-UNIT 2023
Laboratory Sample ID: 20669 Matrix: Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted: 10/19/93

Client Sample #: 10-UNIT 2023
Laboratory Sample ID: 20670 Matrix: Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted: 10/19/93

MDL/PQL Reporting Legend

- M.D.L. (Method Detection Limit)
The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a clean matrix containing the analyte.
- P.Q.L. (Practical Quantitation Limit)
By definition in SW-846, the P.Q.L. is a multiple (10X) of the M.D.L.
- M.A.C. (Maximum Allowable Concentration)
The maximum concentration permitted for the analyte by the method specified.

Report to:Monteverde Env. Consultants
Submission #:9310000154
Project:HAFB/TCLP
Date Reported:10/19/93

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted:10/19/93

Client Sample #:5-UNIT 2021
Laboratory Sample ID:20565 Matrix:Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion:10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l
C.A.S.# Analyte
7439-92-1 TCLP Lead

Result	M.D.L.	P.Q.L.	M.A.C.
<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted:10/19/93

Client Sample #:6-UNIT 2022
Laboratory Sample ID:20566 Matrix:Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion:10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l
C.A.S.# Analyte
7439-92-1 TCLP Lead

Result	M.D.L.	P.Q.L.	M.A.C.
<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted:10/19/93

Client Sample #:7-UNIT 2021
Laboratory Sample ID:20567 Matrix:Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion:10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l
C.A.S.# Analyte
7439-92-1 TCLP Lead

Result	M.D.L.	P.Q.L.	M.A.C.
<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted:10/19/93

Client Sample #:8-UNIT 2021
Laboratory Sample ID:20568 Matrix:Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion:10/19/93

Report to: Monteverde Env. Consultants
Submission #: 9310000154
Project: HAFB/TCLP
Date Reported: 10/19/93

Client Sample #1-UNIT 2277
Laboratory Sample ID: 20561 Matrix: Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted: 10/19/93

Client Sample #2-UNIT 2021
Laboratory Sample ID: 20562 Matrix: Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	<0.5	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted: 10/19/93

Client Sample #3-UNIT 2021
Laboratory Sample ID: 20563 Matrix: Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	0.8	0.05	0.5	5

TCLP SINGLE-PHASE EXTRACT. (EPA 1311)
Date Extracted: 10/19/93

Client Sample #4-UNIT 2021
Laboratory Sample ID: 20564 Matrix: Solid
The sample location was HOLLOMAN AFB, ALBUQUERQUE, NM.
Sample collection date was October 14, 1993.

MICROWAVE DIGESTION
Date of Microwave Digestion: 10/19/93

TCLP LEAD/Pb (EPA 7420) Units mg/l		Result	M.D.L.	P.Q.L.	M.A.C.
C.A.S.#	Analyte				
7439-92-1	TCLP Lead	0.6	0.05	0.5	5

STATEMENT OF WORK

Contractor shall perform laboratory analysis on ten (10) construction debris samples using the Toxicity Characteristic Leaching Procedure, Lead only. Samples shall be extracted using EPA Method 1311. Analysis shall conform to EPA Methods 6010A, or 7421. Contractor shall thoroughly mix/homogenize sample material before preparing it for analysis. Upon completion of analysis, Contractor shall be responsible for disposal of samples.

HAFB personnel will collect ten samples of construction debris from various units in the Military Family Housing area. Samples will vary in size, and grinding/crushing of samples prior to testing will be necessary. Nine (9) of the samples will be collected from debris piles consisting of gypsum board, paint, wood fragments, metal, and other construction rubble. One (1) sample will be extracted from a metal framed window, which will consist of metal, glass, caulking, paint, and possibly other materials. Asbestos will be present in all samples. Contractor will provide the appropriate bottles/coolers/ice as required. After all samples have been collected in the bottles/containers, they will be sent back to the Contractor. The Contractor will be responsible for all freight charges, via Federal Express, both to and from HAFB. Performance time will be 10 days from the Contractor's receipt of the samples. Results shall be submitted to John Hamann, 49 CES/CEEE, 550 Tabosa Avenue, Holloman AFB, NM 88330-8458. Telephone: (505)-475-5491.