

N00213.AR.000061  
NAS KEY WEST  
5090.3a

LETTER REGARDING RESULTS OF SAND BLASTING/AIRCRAFT MATERIAL TESTING FOR  
METALS FOR RESOURCE CONSERVATION AND RECOVERY ACT FACILITY  
ASSESSMENT WITH ATTACHMENT NAS KEY WEST FL  
7/29/1988  
GERAGHTY AND MILLER INC

File 11 NAS Key West

Code 1143f  
1143f  
1143f



July 29, 1988

Mr. Robert Moser  
Environmental Branch  
Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
Charleston, SC 29411-0068

Dear Mr. Moser:

In April 1988, the Navy requested that Geraghty & Miller, Inc., (G&M) coordinate the analysis of two samples of material commonly referred to as "Black Beauty." This material is currently used to sand-blast "yellow gear" and aircraft in the vicinity of Building A990 at the Naval Air Station, Boca Chica, Florida. According to Reed Minerals Division of Tampa, Florida, the manufacturers of "Black Beauty," this material is composed of coal slag obtained from an electrical power company.

Samples of this material were collected by the Florida Department of Environmental Regulation (FDER) during a RCRA Facility Assessment the week of April 11, 1988, and split with the Navy. One of the samples is of unused "Black Beauty," and the second sample is of "Black Beauty" after it was used as blasting material for equipment.

The two samples given to G&M by the Navy were sent to Pioneer Laboratory, Inc., for analyses for EP Toxicity metals (arsenic, silver, barium, cadmium, chromium, mercury, lead, and selenium). The results of these analyses have been received by G&M and indicate that no metals were detected above the laboratory detection limit (see Attachment A) in either sample. Therefore, these samples do not have metals present above the maximum concentration of contaminants characteristic of EP Toxicity (40 CFR Chapter 261.24).

GERAGHTY & MILLER, INC.

Mr. Robert Moser  
July 29, 1988  
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If you have any questions or comments concerning these data, please call us.

Sincerely,

GERAGHTY & MILLER, INC.

*Jean A. Hebert*

Jean A. Hebert  
Staff Scientist

*William P. Bocskocsky*

William P. Bocskocsky  
Associate

JAH:WPB:lt  
enc.  
TFO290KWO7  
653/21

ATTACHMENT A

Laboratory Analyses



11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514  
PHONE (904) 474-1001

CLIENT NAME: GERAGHTY & MILLER  
3820 NORTHDALD BLVD  
SUITE 200  
TAMPA, FL 33624

PROJECT NO: TFO290KW07/NAS KEY WEST

QC LEVEL I (INORGANIC)

LAB ID: 88-1947

LAB ID            CLIENT ID

88-1947-1        140488-2HW  
88-1947-2        140488-1HW

WATER

PARAMETER	PREPARATION DATE	ANALYSIS DATE	BATCH #	METHOD	DETECTION LIMIT	BLANK RESULT	MATRIX SPIKE RESULT	EXPECTED MAT. SPK. RESULT	% REC. MATRIX SPIKE	% REC. CONTROL LIMITS
SILVER :EPTOX	6-06-88	6-07-88	88-AgG-6	272.2	0.0001	0.0002	0.0024	0.0022	109	75-129
ARSENIC :EPTOX	6-06-88	6-07-88	2	200.7	0.50	BDL	1.90	2.00	95	77-113
BARIUM :EPTOX	6-06-88	6-07-88	2	200.7	1.00	BDL	1.23	1.12	109	84-112
CADMIUM :EPTOX	6-06-88	6-07-88	2	200.7	0.10	BDL	0.96	1.00	96	84-116
CHROMIUM :EPTOX	6-06-88	6-07-88	2	200.7	0.50	BDL	0.96	1.00	96	95-107
MERCURY :EPTOX	6-06-88	6-07-88	88-Hg-21	345.1	0.0001	0.0008	0.0047	0.0058	81	76-128
LEAD :EPTOX	6-06-88	6-07-88	2	200.7	0.50	BDL	1.94	2.00	97	93-111
SELENIUM :EPTOX	6-06-88	6-07-88	2	200.7	0.10	BDL	1.86	2.00	93	71-123

ALL QUALITY CONTROL DATA FOR THIS BATCH IS WITHIN ACCEPTABLE LIMITS.

Notes: Results reported in ppm, parts per million, mg/l.  
BDL = Below Detection Limit.  
Results reported are blank corrected.

Source for control limits is internal laboratory quality assurance program and references below.

Reference: EPA-600/4-79-020, Revised March, 1983.

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11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514  
PHONE (904) 474-1001

Client: GERAGHTY & MILLER  
07001 3820 NORTHDAL BLVD.  
SUITE 200  
TAMPA FL 33624-0000

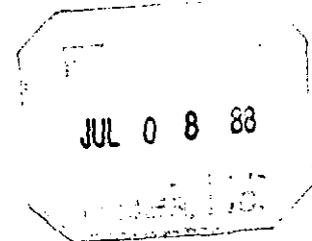
Lab I.D.#: 88-1947  
Order Number: P13047  
Order Date: 06/01/88  
Sampled By: EPA  
Sample Date: 04/14/88  
Sample Time: N/S

Project Number: TFO29OKW07  
Project Name: GERAGHTY & MILLER  
Sample Site: NAS KEY WEST  
Sample Type: SANDBLASTING GRIT

N/S = Not Submitted

### R E S U L T S

reported on the following page(s)



Comments: PPM = Parts Per Million, mg/l; Method Reference: SW-846, 3rd Edition, November 1986; BDL = Below Detection Limits.

A-2

Approved By :

W. F. Bowen

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11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514  
PHONE (904) 474-1001

Client: GERAGHTY & MILLER  
07001

Lab I.D.#: 88-1947-1  
Order Date: 06/01/88  
Sampled By: EPA

Sample Site: NAS KEY WEST  
Sample Type: SANDBLASTING GRIT

Sample ID.: 140488-2HW *NEW* Sample Date: 04/14/88 Time: N/S

EPTOX/METALS

EP TOXICITY-METALS ANALYSIS

Parameter	Units	Result	Detection Limit
SILVER, EPTOX	PPM	BDL	0.50
ARSENIC, EPTOX	PPM	BDL	0.50
BARIUM, EPTOX	PPM	BDL	1.0
CADIUM, EPTOX	PPM	BDL	0.10
CHROMIUM, EPTOX	PPM	BDL	0.50
MERCURY, EPTOX	PPM	BDL	0.01
LEAD, EPTOX	PPM	BDL	0.50
SELENIUM, EPTOX	PPM	BDL	0.20

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11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514  
PHONE (904) 474-1001

Client: GERAGHTY & MILLER  
07001

Lab I.D.#: 88-1947-2  
Order Date: 06/01/88  
Sampled By: EPA

Sample Site: NAS KEY WEST  
Sample Type: SANDBLASTING GRIT

Sample ID.: 140488-1HW USED Sample Date: 04/14/88 Time: N/S

EPTOX/METALS

EP TOXICITY-METALS ANALYSIS

Parameter	Units	Result	Detection Limit
SILVER, EPTOX	PPM	BDL	0.50
ARSENIC, EPTOX	PPM	BDL	0.50
BARIUM, EPTOX	PPM	BDL	1.0
CADIUM, EPTOX	PPM	BDL	0.10
CHROMIUM, EPTOX	PPM	BDL	0.50
MERCURY, EPTOX	PPM	BDL	0.01
LEAD, EPTOX	PPM	BDL	0.50
SELENIUM, EPTOX	PPM	BDL	0.20

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PACKAGE ID NO. 9611-921  
05/27/88

EXHIBIT I

Sample Inspection and Identification Form

Client: Scrumpy Mills

Lab I.D.#: 88-1947

Bill of Lading/Air Bill #: 9611-921

Date Received: 06-01-88

Method of Shipment: UPS

SAMPLE CONDITION UPON RECEIPT

	<u>YES</u>	<u>NA</u>	<u>NO</u>
1. Are seals intact?	( <input checked="" type="checkbox"/> )	( )	( )
2. Is there a chain of custody?	( <input checked="" type="checkbox"/> )	( )	( )
3. Are sample tags present?	( <input checked="" type="checkbox"/> )	( )	( )
4. Are the sample tags, sample containers and chain of custody all in agreement? If no, explain _____	( <input checked="" type="checkbox"/> )	( )	( )
5. Do the number of samples received agree with chain of custody? If no, explain _____	( <input checked="" type="checkbox"/> )	( )	( )
6. Does the sample matrix agree with chain of custody? If no, explain _____	( <input checked="" type="checkbox"/> )	( )	( )
7. Were the samples received cold?	( <input checked="" type="checkbox"/> )	( <input checked="" type="checkbox"/> )	( )
8. Are the sample containers intact? (i.e. broken, leaking, etc.) If no, explain _____	( <input checked="" type="checkbox"/> )	( )	( )
9. Is there any headspace in the VOA vials? If so, which ones _____	( )	( <input checked="" type="checkbox"/> )	( )

PLI SAMPLE I.D. (CROSS-REFERENCE WITH CLIENT I.D.)

1. <u>140488-2HW</u>	16. _____
2. <u>" " 1-1HW</u>	17. _____
3. _____	18. _____
4. _____	19. _____
5. _____	20. _____
6. _____	21. _____
7. _____	22. _____
8. _____	23. _____
9. _____	24. _____
10. _____	25. _____
11. _____	26. _____
12. _____	27. _____
13. _____	28. _____
14. _____	29. _____
15. _____	30. _____

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