N61165.AR.004944
CNC CHARLESTON
5090.3a

LEAD BASED PAINT CLEARANCE SAMPLING REPORT FOR QUARTERS A AND F CNC CHARLESTON SC

2/26/2001

GENERAL ENGINEERING LABORATORIES

Lead-Based Paint
Clearance Sampling

Quarters A and Quarters F

Charleston Naval Complex
Charleston, South Carolina

Submitted to:

CH2M-Jones, LLC
1849 Avenue F
Charleston Naval Complex
Charleston, South Carolina

Submitted by:

General Engineering
A Division of General Engineering Laboratories, Inc.
Post Office Box 30712
Charleston, South Carolina 29407

Submittal Date: February 26, 2001

GENERAL ENGINEERING
A Division of General Engineering Laboratories, Inc.

February 26, 2001

Mr. Jed Heames, Site Superintendent
CH2M-Jones, LLC
1849 Avenue F
Charleston Naval Complex
Charleston, South Carolina 29405-6188

Re: Lead-Based Paint Clearance Samples
Quarters 760, 761, 762 and 763, Charleston Naval Complex (CNC)
Charleston, South Carolina

Dear Mr. Heames:

During the period from December 1, 2000 – January 26, 2001, certified lead inspectors and risk assessors from General Engineering performed lead-based paint (LBP) initial clearance testing on Quarters 760, 761, 762, 763 located in the Charleston Naval Complex, North Charleston, South Carolina. Results from the initial clearance testing required additional cleaning and subsequent re-testing until LBP dust hazards were reduced below dust clearance levels from each unit.

Mr. Craig Langford and James R. Tucker, Ph.D. collected dust wipe samples from floors, window sills (stools) and window troughs. These samples were collected in accordance with the Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint in Housing, October 1997 and subsequent regulatory revisions published in the Code of Federal Regulations (CFR), 29CFR Part 35 et al., effective September 15, 2000. The lead dust content of the wipes from each tested surface was analyzed by Environmental Hazard Services, LLC, an Environmental Lead Proficiency Analytical Testing (ELPAT) certified laboratory.

HUD and the United States Environmental Protection Agency (EPA) regulations specify clearance test levels for lead dust when the lead content is equal to or greater than 40 micrograms per square foot (ug/ft^2) for floors, 250 ug/ft^2 for window sills (stools) and 800 ug/ft^2 for window troughs (wells). A representative number of dust wipe test locations were collected based upon recommendations from Chapter 15 of the HUD Guidelines and professional judgement. Quality control samples and field blanks were prepared and submitted as part of sample submissions. Results from these QC samples compared favorably with predicted results. The locations of the dust wipe testing locations are shown on the attached drawings for each building. Compliant clearance dust wipe samples for each building are listed in Table One and locations shown on drawings in Attachment One. The complete dust wipe and soil analytical results are summarized in Table Two, on attached laboratory analytical forms and shown on drawings on Attachment Two. The inspectors and firm certifications are also included.

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 769-7378 • Fax (843) 769-7397

Printed on recycled paper.

On behalf of General Engineering, I want to thank for the opportunity to assist you in meeting your environmental needs. If you have any questions or need additional information, please call me at (843) 769-7378, extension 4483.

Yours very truly,

James R. Tucker
Certified LBP Risk Assessor
#SC-02-0320031667

fc: chmj00100c:022601b
enclosure

GENERAL ENGINEERING
PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 769-7378 • Fax (843) 769-7397

Printed on recycled paper.

TABLE ONE

COMPLIANT
LEAD DUST WIPE AND SOIL RESULTS
CHARLESTON NAVAL COMPLEX
NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building	Sample Identification	Sample Type*	Lead Concentration **
50	Quarters A	JRT-1222-5	T	450
52	Quarters A	JRT-1222-7	S	250
54	Quarters A	JRT-1222-9	T	66
84	Quarters A	JRT-0110-2	S	<16
85	Quarters A	JRT-0110-3	F	<20
86	Quarters A	JRT-0110-4	S	110
87	Quarters A	JRT-0110-5	F	<20
88	Quarters A	JRT-0110-6	S	<20
89	Quarters A	JRT-0110-7	S	44
99	Quarters A	JRT-0126-1	F	<20
100	Quarters A	JRT-0126-2	F	<20
101	Quarters A	JRT-0126-3	F	<20

***F-Floor Clearance Level = 40 ug/ft^2, S-Sill Clearance Level = 250 ug/ft^2**
T-Trough = 800 ug/ft^2, C-Composite Soil Level, B-Blank or Q-Quality Assurance
**** Dust Wipes - ug/ft^2, Composite Soil – parts per million (ppm)**

TABLE ONE (Continued)

COMPLIANT
LEAD DUST WIPE AND SOIL RESULTS
CHARLESTON NAVAL COMPLEX
NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building	Sample Identification	Sample Type*	Lead Concentration **
13	Quarters F	F-1F	F	<20
14	Quarters F	WT-1F	T	310
15	Quarters F	F-2F	F	<20
16	Quarters F	WC-2F	S	<31
17	Quarters F	F-3F	F	41
18	Quarters F	WT-3F	T	75
19	Quarters F	F-4F	T	<20
20	Quarters F	WC-4F	F	<36
21	Quarters F	OS-1F	C	1,300

***F-Floor Clearance Level = 40 ug/ft^2, S-Sill Clearance Level = 250 ug/ft^2**
T-Trough = 800 ug/ft^2, C-Composite Soil Level, B-Blank or Q-Quality Assurance
**** Dust Wipes - ug/ft^2, Composite Soil – parts per million (ppm)**

TABLE TWO

QUARTERS A AND QUARTERS F
LEAD DUST WIPE AND SOIL RESULTS
CHARLESTON NAVAL COMPLEX
NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building	Sample Identification	Sample Type*	Lead Concentration **
13	Quarters F	F-1F	F	<20
14	Quarters F	WT-1F	T	310
15	Quarters F	F-2F	F	<20
16	Quarters F	WC-2F	S	<31
17	Quarters F	F-3F	F	41
18	Quarters F	WT-3F	T	75
19	Quarters F	F-4F	T	<20
20	Quarters F	WC-4F	F	<36
21	Quarters F	OS-1F	C	1,300
22	Quarters F	QS-1	Q	150
23	Quarters F	QS-2	Q	140
46	Quarters A	JRT-1222-1	S	630
47	Quarters A	JRT-1222-2	F	930
48	Quarters A	JRT-1222-3	F	370
49	Quarters A	JRT-1222-4	F	500
50	Quarters A	JRT-1222-5	T	450
51	Quarters A	JRT-1222-6	F	1,400
52	Quarters A	JRT-1222-7	S	250
53	Quarters A	JRT-1222-8	F	250
54	Quarters A	JRT-1222-9	T	66
55	Quarters A	JRT-1222-10	B	<20

***F-Floor Clearance Level = 40 ug/ft^2, S-Sill Clearance Level = 250 ug/ft^2**
T-Trough = 800 ug/ft^2, C-Composite Soil Level, B-Blank or Q-Quality Assurance
**** Dust Wipes - ug/ft^2, Composite Soil – parts per million (ppm)**

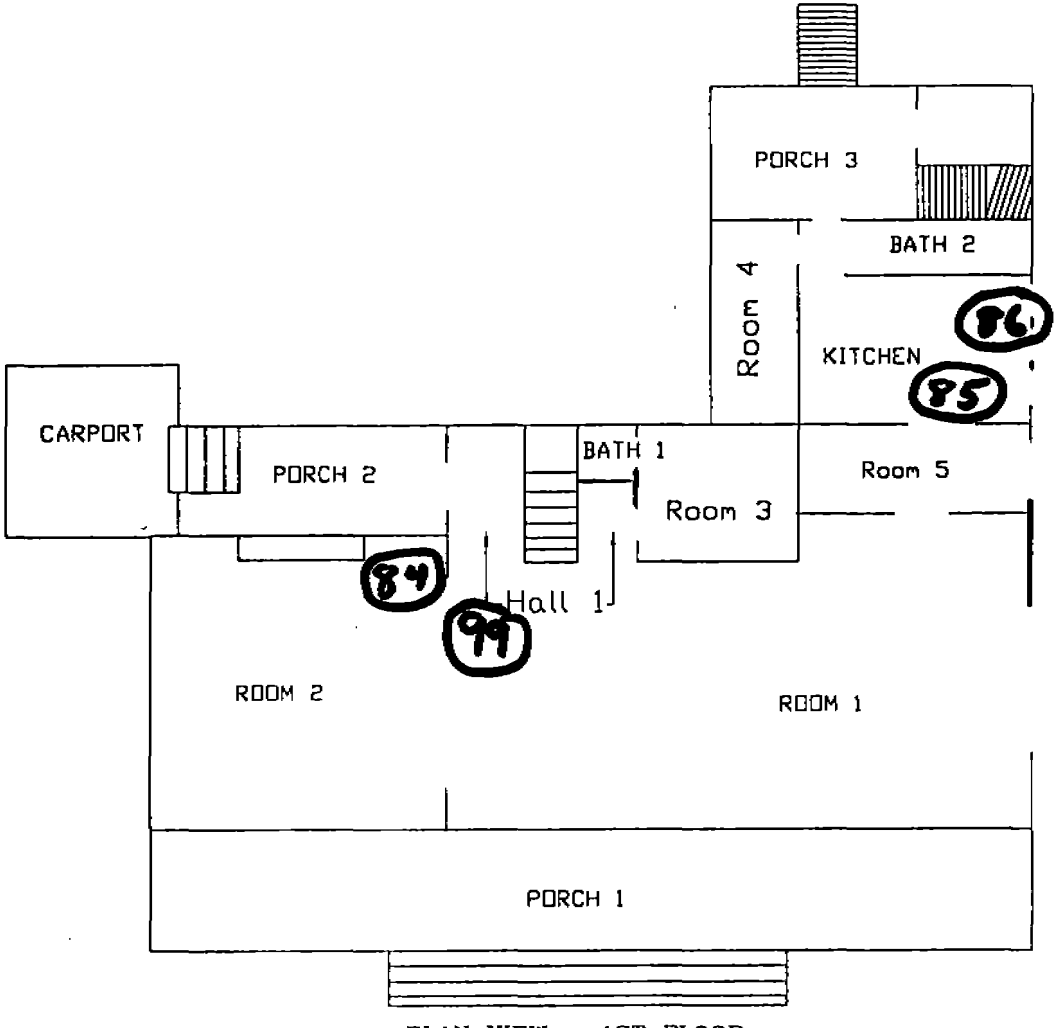
TABLE TWO (Continued)
QUARTERS A AND QUARTERS F
LEAD DUST WIPE AND SOIL RESULTS
CHARLESTON NAVAL COMPLEX
NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building	Sample Identification	Sample Type*	Lead Concentration **
56	Quarters A	JRT-1222-11	Q	31
57	Quarters A	JRT-1222-12	Q	30
58	Quarters A	JRT-1222-13	B	<20
59	Quarters A	JRT-1222-14	C	75
60	Quarters A	JRT-1222-15	C	320
83	Quarters A	JRT-0110-1	F	200
84	Quarters A	JRT-0110-2	S	<16
85	Quarters A	JRT-0110-3	F	<20
86	Quarters A	JRT-0110-4	S	110
87	Quarters A	JRT-0110-5	F	<20
88	Quarters A	JRT-0110-6	S	<20
89	Quarters A	JRT-0110-7	S	44
90	Quarters A	JRT-0110-8	F	67
91	Quarters A	JRT-0110-9	F	53
94	Quarters A	JRT-0110-12	B	<20
95	Quarters A	JRT-0110-13	B	<20
96	Quarters A	JRT-0110-14	Q	42
97	Quarters A	JRT-0110-15	Q	28
98	Quarters A	JRT-0110-16	Q	39
99	Quarters A	JRT-0126-1	F	<20
100	Quarters A	JRT-0126-2	F	<20
101	Quarters A	JRT-0126-3	F	<20
104	Quarters A	JRT-0126-6	B	<20

***F-Floor Clearance Level = 40 ug/ft^2, S-Sill Clearance Level = 250 ug/ft^2**
T-Trough = 800 ug/ft^2, C-Composite Soil Level, B-Blank or Q-Quality Assurance
**** Dust Wipes - ug/ft^2, Composite Soil – parts per million (ppm)**

Attachment One

COMPLIANT LEAD DUST WIPE AND SOIL RESULTS
QUARTERS A AND QUARTERS F
FLOORPLANS
CHARLESTON NAVAL COMPLEX
NORTH CHARLESTON, SOUTH CAROLINA



PLAN VIEW – 1ST FLOOR

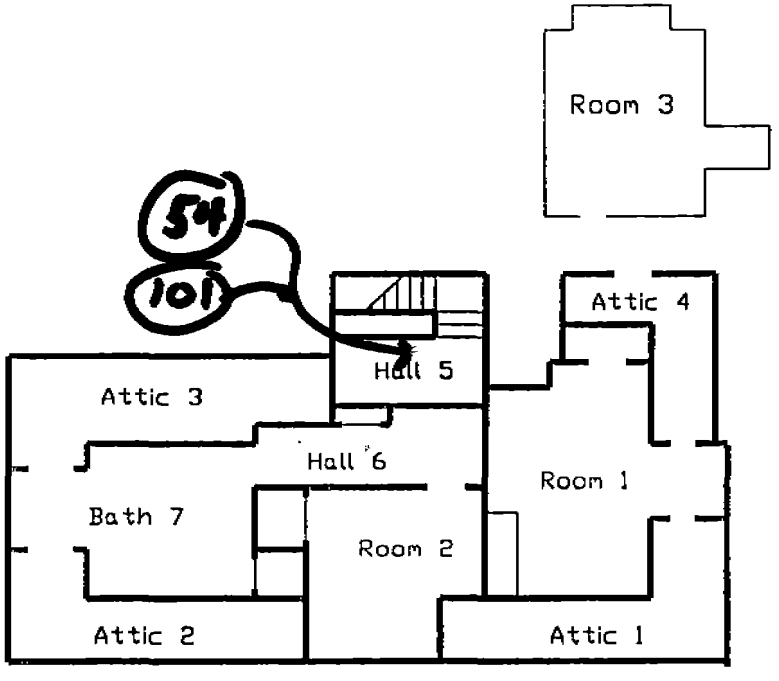
PLAN VIEW – BASEMENT AREAS

SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC 29405-2106
Ph. (803) 743-6777

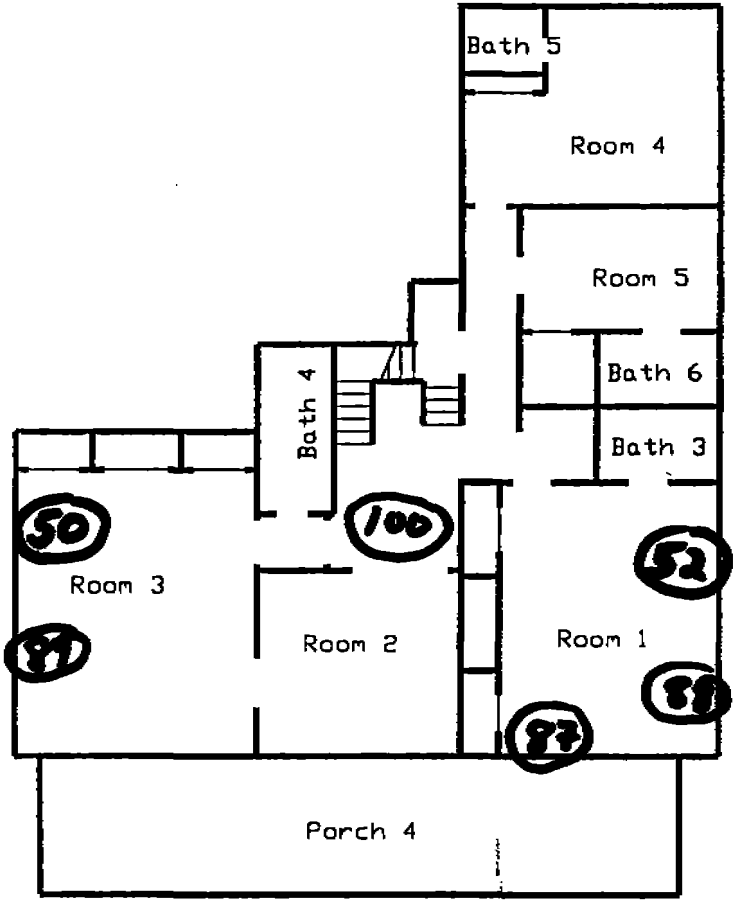
Floor Plan
100 NAVY WAY – QUARTERS "A"
Charleston Naval Base
Charleston, SC

DWG DATE: 24 Mar 98 | DWG NAME: Qtrs A-1

Figure 1-a, Quarters A, 1st Floor



PLAN VIEW – 3rd FLOOR



PLAN VIEW – 2nd FLOOR

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777	Floor Plan 100 NAVY WAY – QUARTERS "A" Charleston Naval Base Charleston, SC
	DWG DATE: 24 Mar 98 / DWG NAME: Qtrs A2

Figure 1-b, Quarters A, 2nd & 3rd Floor

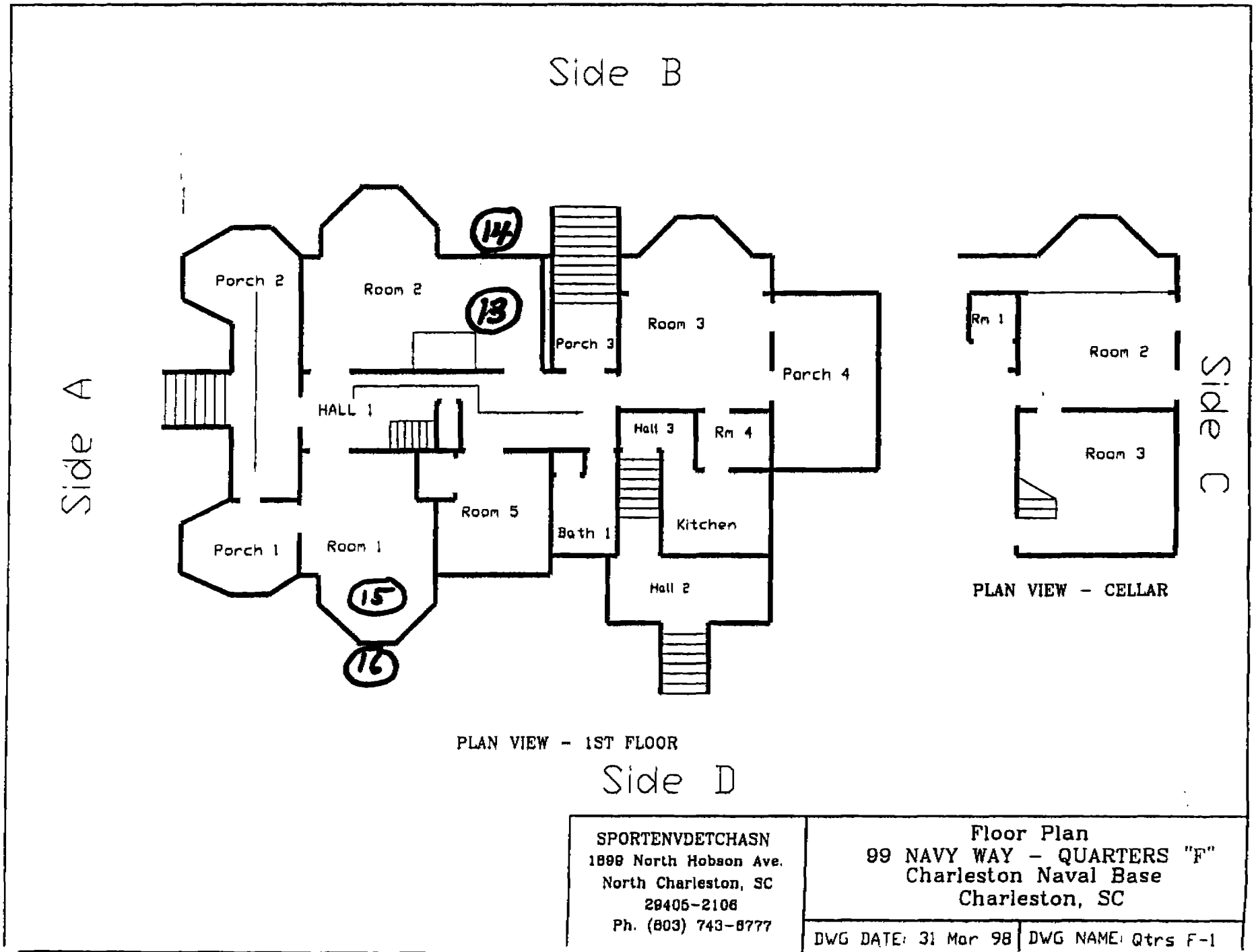
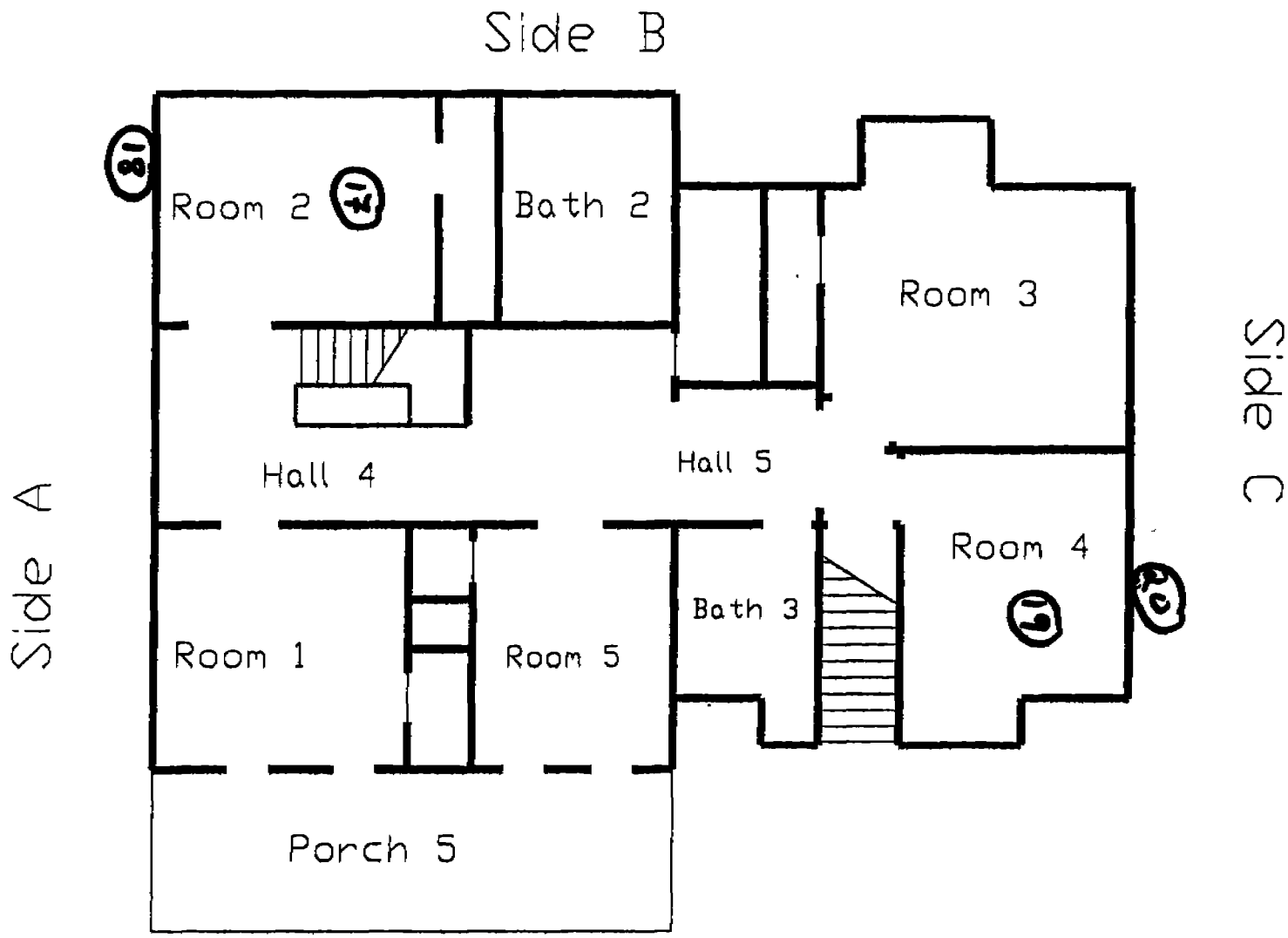


Figure 5-a Quarters F, 1st Floor



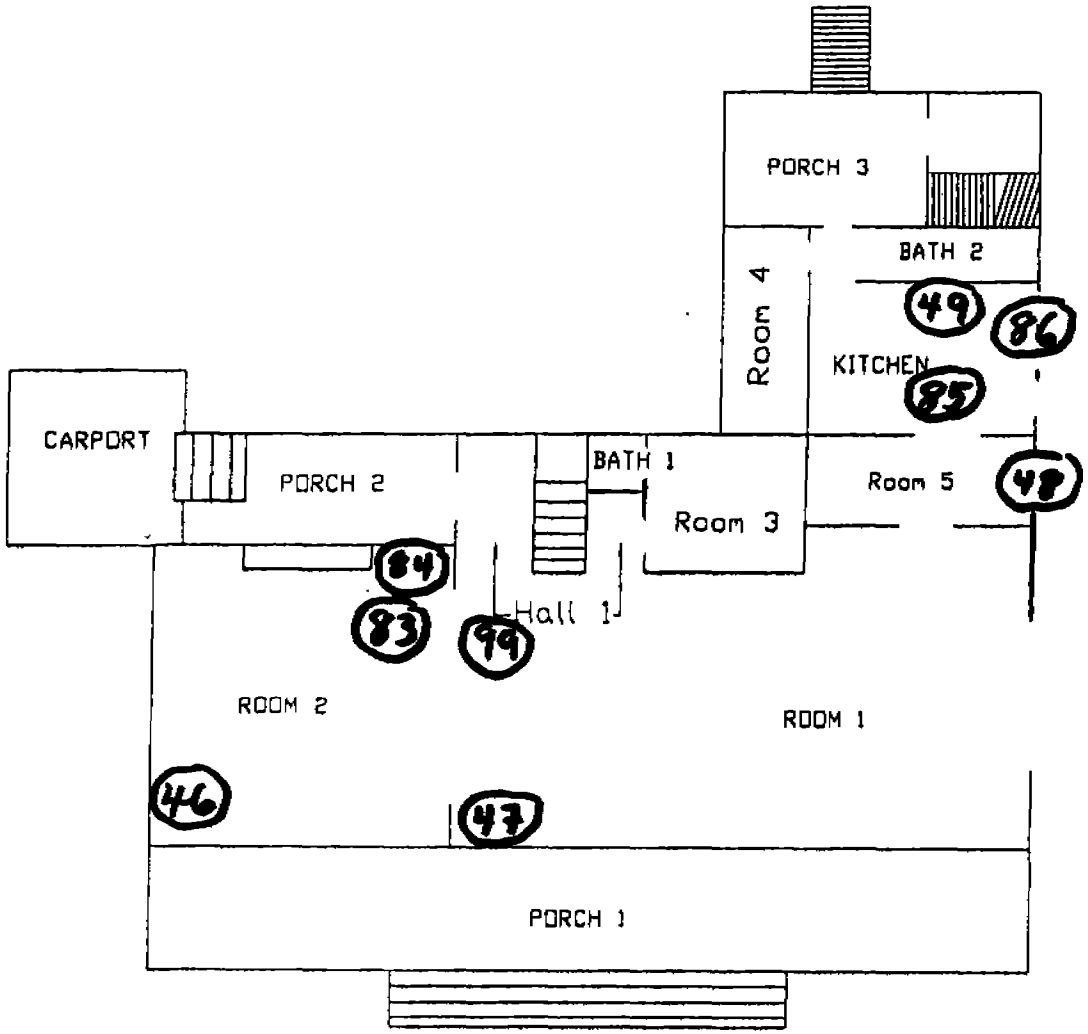
PLAN VIEW - 2ND FLOOR

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777	Floor Plan 99 NAVY WAY - QUARTERS "F" Charleston Naval Base Charleston, SC	
	DWG DATE: 31 Mar 98	DWG NAME: Qtrs F-2

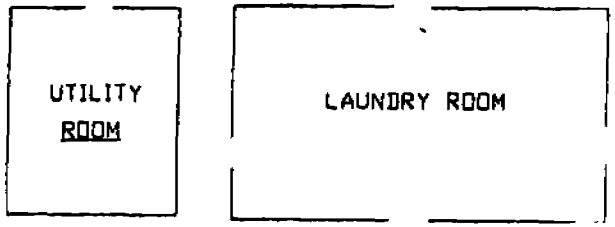
Figure 5-b Quarters F, 2nd Floor

Attachment Two

COMPLETE LEAD DUST WIPE AND SOIL RESULTS
FLOOR PLANS
QUARTERS A AND QUARTERS F
CHARLESTON NAVAL COMPLEX
NORTH CHARLESTON, SOUTH CAROLINA



PLAN VIEW - 1ST FLOOR



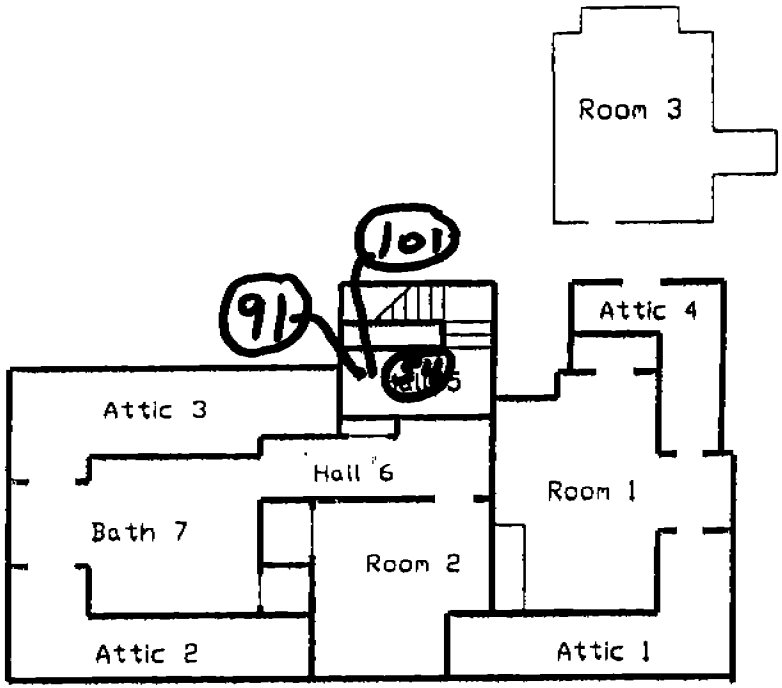
PLAN VIEW - BASEMENT AREAS

SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC 29405-2106
Ph. (803) 743-6777

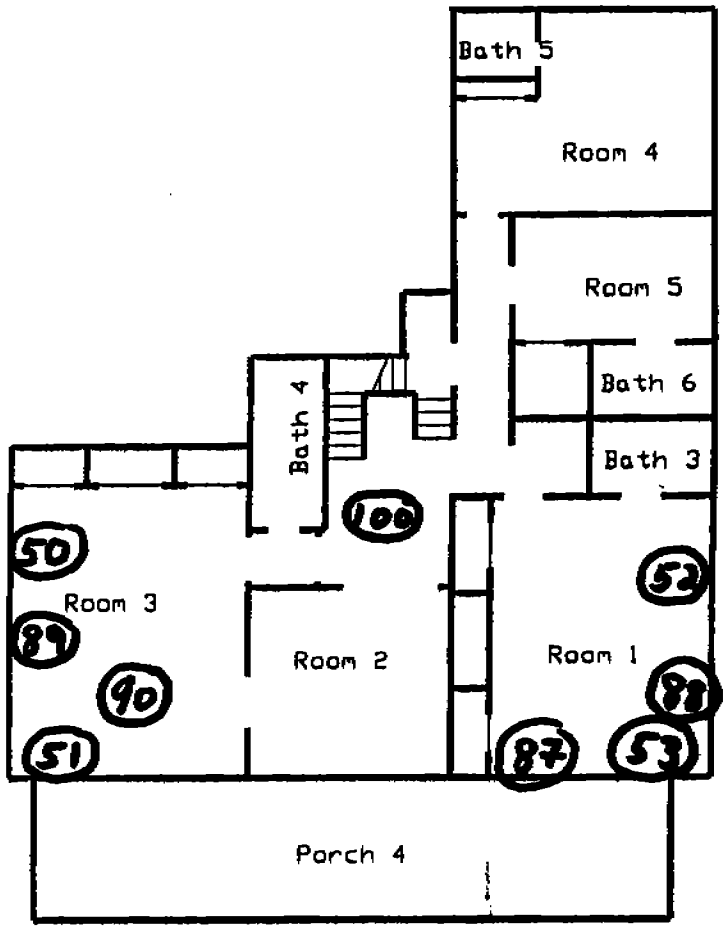
Floor Plan
100 NAVY WAY - QUARTERS "A"
Charleston Naval Base
Charleston, SC

DWG DATE: 24 Mar 98 | DWG NAME: Qtrs A-1

Figure 1-a, Quarters A, 1st Floor



PLAN VIEW - 3rd FLOOR



PLAN VIEW - 2nd FLOOR

SPORTENVDETCHASN 1699 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777	Floor Plan 100 NAVY WAY - QUARTERS "A" Charleston Naval Base Charleston, SC
	DWG DATE: 24 Mar 98 / DWG NAME: Qtrs A2

Figure 1-b, Quarters A, 2nd & 3rd Floor

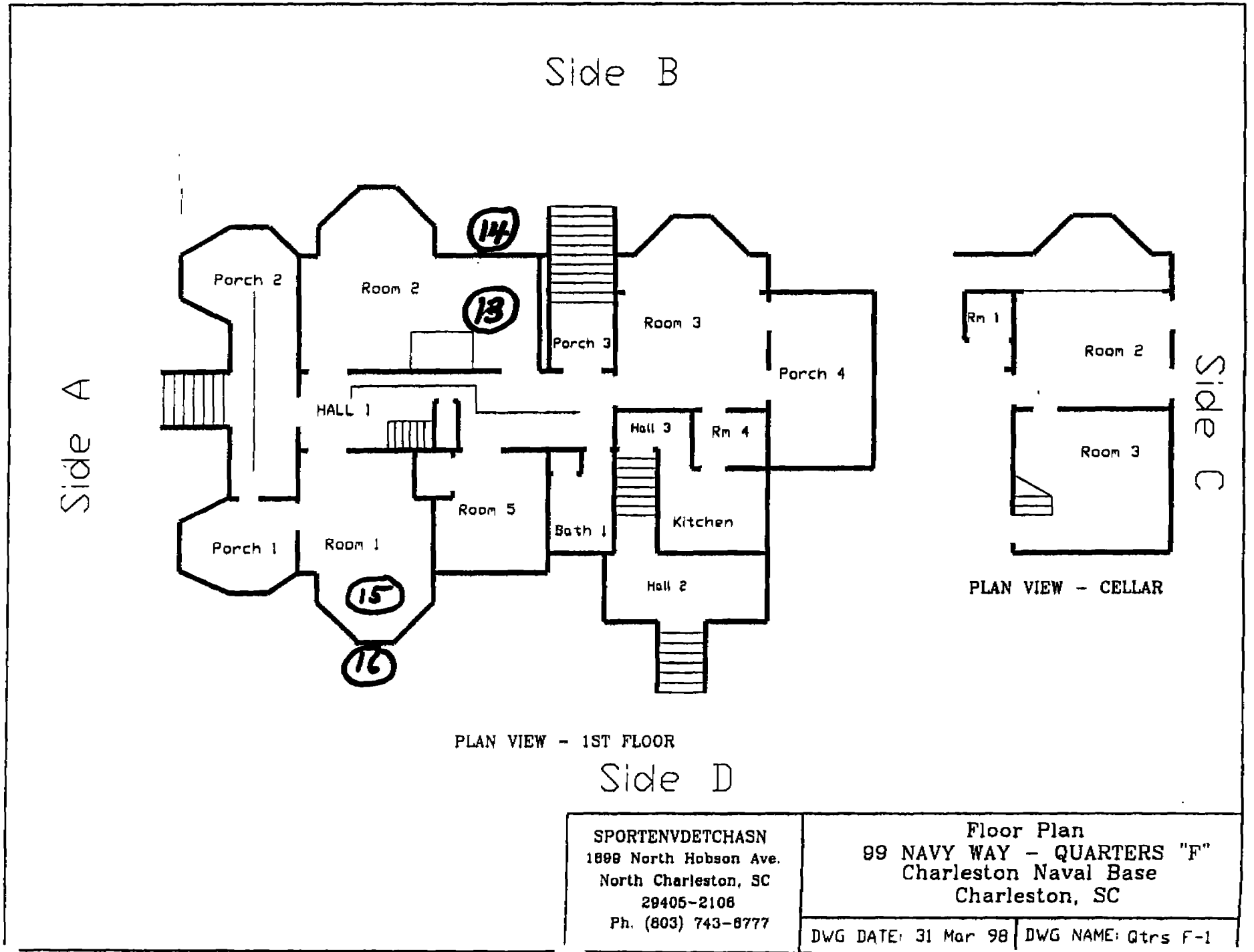
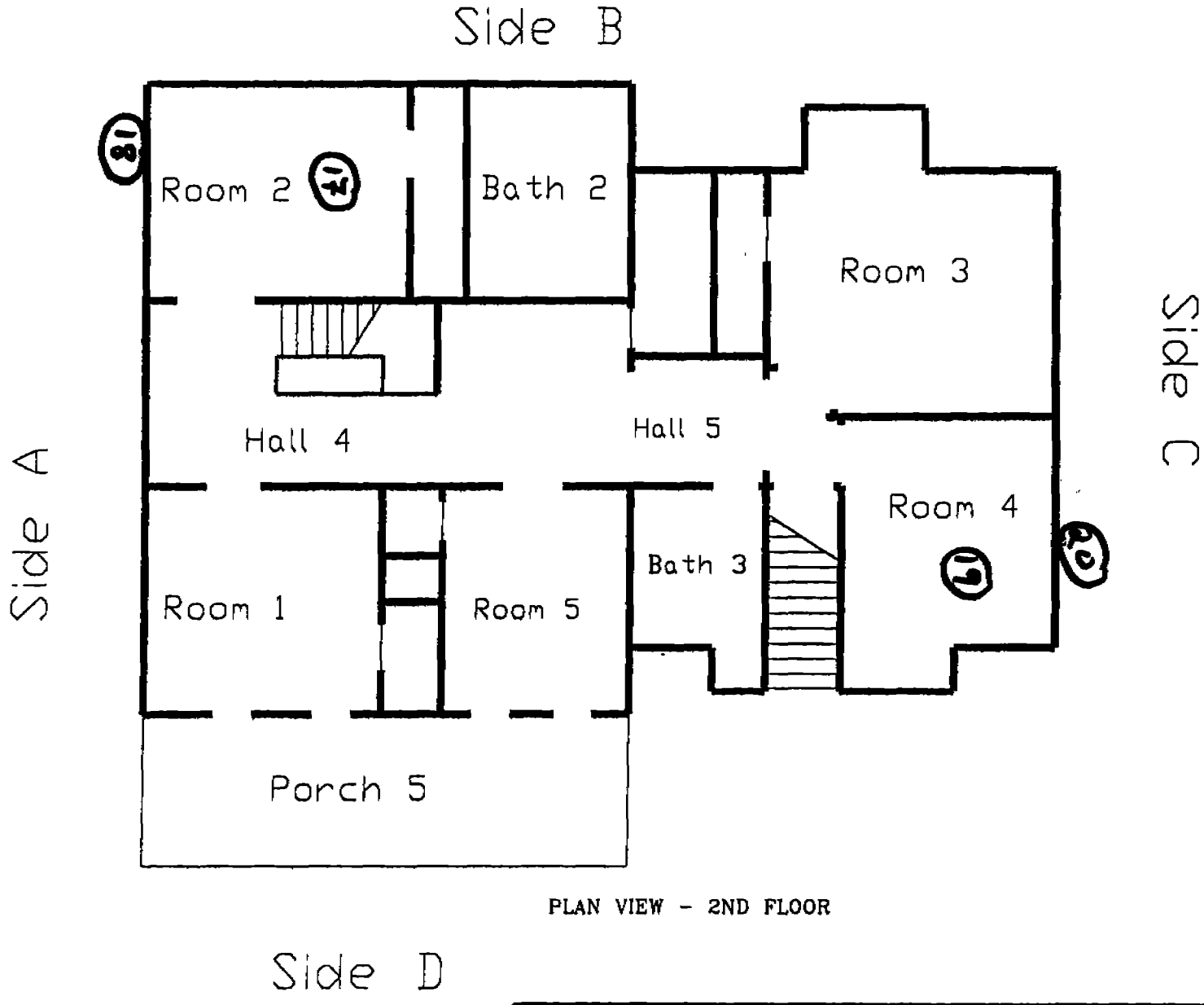


Figure 5-a Quarters F, 1st Floor



PLAN VIEW - 2ND FLOOR

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777	Floor Plan 99 NAVY WAY - QUARTERS "F" Charleston Naval Base Charleston, SC	
	DWG DATE: 31 Mar 98	DWG NAME: Qtrs F-2

Figure 5-b Quarters F, 2nd Floor

Attachment Three

CHAIN OF CUSTODY FORMS
AND
LABORATORY ANALYSIS

12 Pb Wipe

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

EHS 12-00-0232

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone# : 843-769-7378 X-4483 **Fax#:** 843-769-7397

SAMPLE CONDITION
Acceptable ✓
Unacceptable

Date: 12-01-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ00100C
P.O. #:

	Sample Number	Sample Date & Time 12-01-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					~~Air Volume (L)~~ OR Wipe Area (ft²) OR ~~Scrape Area (cm²)~~	Comments
1	JRT-1201-1	1:00									✓								1	
2	JRT-1201-2	1:10									✓								0.968	
3	JRT-1201-3	1:20									✓								1	
4	JRT-1201-4	1:30									✓								~~0.968~~ 1	
5	JRT-1201-5	1:40									✓								0.968	
6	JRT-1201-6	1:50									✓								1	
7	JRT-1201-7	2:00									✓								0.807	
8	JRT-1201-8	2:15									✓								1	
9	JRT-1201-9	2:30									✓								0.807	
10	JRT-1201-10	3:30									✓								1	

Released by:	J. R. Tucker	Signature: J. R. Tucker	Date/Time: 12-01-00 - 4:30
Received by:	A. P. Simard	Signature: [illegible]	Date/Time: 12/1/00 8:50
Released by:		Signature:	Date/Time:
Received by:		Signature:	Date/Time:

Sent by: ENVIRONMENTAL HAZARD SERVICES 8042754907; 12/06/00 9:38; JetFax #324;Page 3/4

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone#: 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 12-01-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ001000
P.O. #:

Sample Number	Sample Date & Time 12-01-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					~~Air Volume (L)~~ OR Wipe Area (ft²) OR ~~Scrape Area (cm²)~~	Comments
11 JRT-1201-11	9:40									✓								1 ft²	
12 JRT-1201-12	3:50									✓								1 ft²	

Released by: James R. Tucker	Signature: JR Tucker	Date/Time: 12-01-00 - 4:30 pm
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

EK 12/06/00

FAXED DEC 0 5 2000

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 01 DEC 2000
DATE OF RECEIPT: 04 DEC 200
DATE OF ANALYSIS: 04 DEC 2000
DATE OF REPORT: 05 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-0232
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-1201-1	1	106	110
02	JRT-1201-2	0.968	2950	3000
03	JRT-1201-3	1	310	310
04	JRT-1201-4	1	9320	9300
05	JRT-1201-5	0.968	27200	28000
06	JRT-1201-6	1	624	620
07	JRT-1201-7	0.807	545	680
08	JRT-1201-8	1	143	140
09	JRT-1201-9	0.807	225	280
10	JRT-1201-10	1	<20.0	<20
11	JRT-1201-11	1	550	550
12	JRT-1201-12	1	607	610

QUALITY CONTROL DATA

BATCH#:	120400W-3
INCLUSIVE EHS SAMPLE NUMBERS:	01-12
Continuing Calibration Verification 10 (10.0ppm Pb)	100% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	102% Recovery
Laboratory Control Standard	96.9% Recovery
Matrix Spike	106% Recovery
Duplicate Relative Percent Difference	8.97 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-0232
PROJECT: CHMJ00100C

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C.
California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

wipepb1.dot/24OCT2000/LLH

EHS 12-00-1506

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

? Pb (Wipe)

mpany Name: General Engineering
dress: 2040 Savage Rd
y, State, Zip: Charleston SC 29407
S Client Account #:
one#: 843-769-7378 Fax#: 843-769-7397

Date: 12-13-00
Contact Name: Craig Langford
Sampler Name: C. Langford
Project #: CHMJ00100C
P.O. #:

mple Number	Sample Date & Time 12-13-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
-1F	10:15									✓								1	* standard
T-1F	10:20									✓								1.076	turn-around
-2F	10:30									✓								1	
C-2F	10:35									✓								0.646	
-3F	10:45									✓								1	[illegible]
T-3F	10:50									✓								1.181	[illegible]
-4F	11:00									✓								1	
C-4F	11:05									✓								0.563	
S-1F	11:10								✓										Soil Composite
S-1									✓									1	~~Quantity Sample~~

eased by: Jennifer E. O'Neal	Signature: Jennifer E. O'Neal	Date/Time: 12-13-00 2:00
eived by:	Signature:	Date/Time:
eased by:	Signature:	Date/Time:
eived by:	Signature: [illegible]	Date/Time: 12/14/00 10:20am

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

mpeny Name: General Engineering
tress: 2040 Savage Road
, State, Zip: Charleston South Carolina 29407
S Client Account #:
nel: 843-769-7378 **Fax#:** 843-769-7397

Date: 12-13-00
Contact Name: Craig Langford
Sampler Name: C. Langford
Project #: CHMJ00100C
P.O. #:

		Asbestos					Lead						Other Metals (Specify metals below)						
mple Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
DS-2									✓									1	geo ~~Identify Sample~~

ased by:	Signature:	Date/Time:
eived by:	Signature:	Date/Time:
ased by:	Signature:	Date/Time:
eived by:	Signature: J. Pallett	Date/Time: 12/14/00 10:00am

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000
DATE OF RECEIPT: 14 DEC 2000
DATE OF ANALYSIS: 14 DEC 2000
DATE OF REPORT: 14 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1506
PROJECT: CHMJ 00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	F-1F	1	<20.0	<20
02	WT-1F	1.076	335	310
03	F-2F	1	<20.0	<20
04	WC-2F	0.646	<20.0	<31
05	F-3F	1	41.0	41
06	WT-3F	1.181	89.0	75
07	F-4F	1	<20.0	<20
08	WC-4F	0.563	<20.0	<36

QUALITY CONTROL DATA

BATCH#:	1214
INCLUSIVE EHS SAMPLE NUMBERS:	01-0
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	109% Recovery
Laboratory Control Standard	101% Recovery
Matrix Spike	106% Recovery
Duplicate Relative Percent Difference	4.83 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug
BATCH#:	121400W-7
INCLUSIVE EHS SAMPLE NUMBERS:	05-08
Continuing Calibration Verification 10 (10.0ppm Pb)	102% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	105% Recovery
Laboratory Control Standard	106% Recovery
Matrix Spike	104% Recovery
Duplicate Relative Percent Difference	1.90 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1506
PROJECT: CHMJ 00100C

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C.
California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000
DATE OF RECEIPT: 14 DEC 2000
DATE OF ANALYSIS: 15 DEC 2000
DATE OF REPORT: 15 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1507
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mg/kg)
01	QS-1F	1300
02	QS-1	150
03	QS-2	140

QUALITY CONTROL DATA

BATCH#:	121500S1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-03
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	94.8% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	78.5% Recovery
Duplicate Relative Percent Difference	0.112 RPD
Reporting Limit	25.0ug
Method Detection Limit	2.50ug

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Bayard Vandegrift

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	mg/kg = milligrams per kilogram
	ml = milliliter	Pb = lead	

EHS 12-00-1505

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

8 Pb(wipe)

pany Name: General Engineering
ress: 2040 Savage Road
State, Zip: Charleston South Carolina 29407
Client Account #:
ne#: 843-769-7378 **Fax#:** 843-769-7397

Date: 12-13-00
Contact Name: Craig Langford
Sampler Name: C. Langford
Project #: CHMJ00100C
P.O. #:

mple Number	Sample Date & Time 12-13-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
-1-761	11:15									✓								1	* 24-hr
T-1-761	11:20									✓								1.181	turn around
2-761	11:25									✓								1	
-2-761	11:30									✓								0.944	
3-761	11:35									✓								1	~~SAMPLE CONDITION~~ Acceptable ✓
-3-761	11:40									✓								0.833	Unacceptable ____
4-761	11:45									✓								1	
-4-761	11:50									✓								0.889	
5-1-761	11:55								✓										Soil Composite
5-3									✓									1	

ased by: Jennifer E. O'Neal	Signature: Jennifer O'Neal	Date/Time: 12-13-00 2:00
ived by:	Signature:	Date/Time:
ased by:	Signature:	Date/Time:
ived by:	Signature: J Singleton	Date/Time: 12/14/00 10:20

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000
DATE OF RECEIPT: 14 DEC 2000
DATE OF ANALYSIS: 14 DEC 2000
DATE OF REPORT: 14 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1505
PROJECT: CHMJ 00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	F-1-761	1	<20.0	<20
02	WT-1-761	1.181	125	110
03	F-2-761	1	<20.0	<20
04	WC-2-761	0.944	<20.0	<22
05	F-3-761	1	<20.0	<20
06	WC-3-761	0.833	<20.0	<25
07	F-4-761	1	<20.0	<20
08	WT-4-761	0.889	386	430

QUALITY CONTROL DATA

BATCH#:	121400W-6
INCLUSIVE EHS SAMPLE NUMBERS:	01-08
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	109% Recovery
Laboratory Control Standard	101% Recovery
Matrix Spike	106% Recovery
Duplicate Relative Percent Difference	4.83 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1505
PROJECT: CHMJ 00100C

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C.
California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000
DATE OF RECEIPT: 14 DEC 2000
DATE OF ANALYSIS: 15 DEC 2000
DATE OF REPORT: 15 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1504
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mg/kg)
01	OS-1-761	1500
02	QS-3	150
03	QS-4	150

QUALITY CONTROL DATA

BATCH#:	121500S1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-03
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	94.8% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	78.5% Recovery
Duplicate Relative Percent Difference	0.112 RPD
Reporting Limit	25.0ug
Method Detection Limit	2.50ug

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Bayard Vandegrift

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume

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LEGEND ug = microgram ppm = parts per million mg/kg = milligrams per kilogram

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

EHS 12-00-1508

CHAIN OF CUSTODY FORM

8Pb (Wipe)

mpany Name: General Engineering
dress: 2040 Savage Road
y, State, Zip: Charleston, South Carolina 29407
S Client Account #:
one#: 843-769-7378 Fax#: 843-769-7397

Date: 12-13-00
Contact Name: Craig Langford
Sampler Name: C. Langford
Project #: CHMJ00100C
P.O. #:

mple Number	Sample Date & Time 12-13-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area (cm²)	Comments
-1-760	12:00									✓								1	X 24-hour
T-1-760	12:05									✓								0.889	turnaround
-2-760	12:10									✓								1	
IC-2-760	12:15									✓								0.944	SAMPLE CONDITION ✓
-3-760	12:20									✓								1	Acceptable ___
IT-3-760	12:25									✓								1.181	Unacceptable ___
-4-760	12:30									✓								1	
-4-760	12:35									✓								0.944	
-1-760									✓										Soil Composite
S-5									✓									1	

eased by: Jennifer E. O'Neal	Signature: Jennifer O'Neal	Date/Time: 12-13-00 2:00	
eived by:	Signature:	Date/Time:	
eased by:	Signature: J. Singleton	Date/Time:	
eived by:	Signature:	Date/Time: 12/14/00 10:20	

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000
DATE OF RECEIPT: 14 DEC 2000
DATE OF ANALYSIS: 14 DEC 2000
DATE OF REPORT: 14 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1508
PROJECT: CHMJ 00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	F-1-760	1	<20.0	<20
02	WT-1-760	0.889	78.0	88
03	F-2-760	1	<20.0	<20
04	WC-2-760	0.944	<20.0	<22
05	F-3-760	1	<20.0	<20
06	WT-3-760	1.181	41.0	35
07	F-4-760	1	<20.0	<20
08	WC-4-760	0.944	32.0	34

QUALITY CONTROL DATA

BATCH#:	121400W-7
INCLUSIVE EHS SAMPLE NUMBERS:	01-08
Continuing Calibration Verification 10 (10.0ppm Pb)	102% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	105% Recovery
Laboratory Control Standard	106% Recovery
Matrix Spike	104% Recovery
Duplicate Relative Percent Difference	1.90 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1508
PROJECT: CHMJ 00100C

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

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California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

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-- PAGE 02 of 02 – END OF REPORT --

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000
DATE OF RECEIPT: 14 DEC 2000
DATE OF ANALYSIS: 15 DEC 2000
DATE OF REPORT: 15 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-1509
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mg/kg)
01	QS-1-760	1100
02	QS-5	150
03	QS-6	130

QUALITY CONTROL DATA

BATCH#:	121500S1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-03
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	94.8% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	78.5% Recovery
Duplicate Relative Percent Difference	0.112 RPD
Reporting Limit	25.0ug
Method Detection Limit	2.50ug

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Bayard Vandegrift

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume.

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LEGEND ug = microgram ppm = parts per million mg/kg = milligrams per kilogram

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone# : 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 12-22-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ00100C
P.O. #:

Sample Number	Sample Date & Time 12/22/00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-1222-1	8:00									✓								1.23 ft²	
JRT-1222-2	8:10									✓								1.00 ft²	
JRT-1222-3	8:20									✓								0.802 ft²	
JRT-1222-4	8:30									✓								1.00 ft²	
JRT-1222-5	8:40									✓								0.781 ft²	
JRT-1222-6	8:50									✓								1.00 ft²	
JRT-1222-7	9:00									✓								1.09 ft²	
JRT-1222-8	9:10									✓								1.00 ft²	
JRT-1222-9	9:20									✓								1.00 ft²	
JRT-1222-10	9:30									✓								1.00 ft²	

Released by: James R. Tucker	Signature: James R. Tucker	Date/Time: 1:30 pm 12/22/00
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone# : 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 12-22-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ001000
P.O. #:

Sample Number	Sample Date & Time	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-1222-11										✓								1.00 ft²	
JRT-1222-12										✓								1.00 ft²	
JRT-1222-13										✓								1.00 ft²	
JRT-1222-14									✓										
JRT-1222-15									✓										

Released by: James R. Tucker	Signature: James R. Tucker	Date/Time: 1:30 p.m. - 12/22/00
Received by:	Signature:	Date/Time: /
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 22 DEC 2000
DATE OF RECEIPT: 26 DEC 2000
DATE OF ANALYSIS: 27 DEC 2000
DATE OF REPORT: 27 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-2683
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-1222-1	1.23	777	630
02	JRT-1222-2	1.00	930	930
03	JRT-1222-3	0.802	300	370
04	JRT-1222-4	1.00	495	500
05	JRT-1222-5	0.781	350	450
06	JRT-1222-6	1.00	1390	1400
07	JRT-1222-7	1.09	269	250
08	JRT-1222-8	1.00	246	250
09	JRT-1222-9	1.00	66.0	66
10	JRT-1222-10	1.00	<20.0	<20
11	JRT-1222-11	1.00	31.0	31
12	JRT-1222-12	1.00	30.0	30
13	JRT-1222-13	1.00	<20.0	<20

QUALITY CONTROL DATA

BATCH#:	122700W1-4
INCLUSIVE EHS SAMPLE NUMBERS:	01-13
Continuing Calibration Verification 10 (10.0ppm Pb)	105% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	102% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	106% Recovery
Duplicate Relative Percent Difference	2.87 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-2683
PROJECT: CHMJ00100C

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C.
California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF RECEIPT: 26 DEC 2000
DATE OF ANALYSIS: 27 DEC 2000
DATE OF REPORT: 27 DEC 2000

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 12-00-2685
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mg/kg)
01	JRT-1222-14	75
02	JRT-1222-15	320

QUALITY CONTROL DATA

BATCH#:	122700S1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-02
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	101% Recovery
Laboratory Control Standard	100% Recovery
Matrix Spike	108% Recovery
Duplicate Relative Percent Difference	11.2 RPD
Reporting Limit	25.0ug
Method Detection Limit	2.50ug

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND ug = microgram ppm = parts per million mg/kg = milligrams per kilogram
ml = milliliter Pb = lead

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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone#: 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 12-29-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHA: J00100C
P.O. #:

Sample Number	Sample Date & Time 12-29-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments 24 hour Turnaround Please
JRT-1229-01	8:00									✓									
JRT-122902	8:05									✓									
JRT-1229-03	8:10									✓									
JRT-1229-04	8:15									✓									
JRT-1229-05	8:20									✓									
JRT-1229-06	8:25									✓									
JRT-1229-07	8:30									✓									
JRT-1229-08	8:30									✓									

Released by: J. R. Tucker	Signature: J. R. Tucker	Date/Time: 12-29-00 - 12:00
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone# : 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 12-29-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ001000
P.O. #:

Sample Number	Sample Date & Time 12-29-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-1229-09	8:40									✓									24 Turnaround Please
JRT-1229-10	8:45									✓									
JRT-1229-11	8:50									✓									
JRT-1229-12	8:55									✓									
JRT-1229-13	9:00									✓									
JRT-1229-14	9:05									✓									
JRT-1229-15	9:10									✓									
JRT-1229-16	9:15									✓									
JRT-1229-17	9:25								X										
JRT-1229-18	9:35								X										

Released by: James R Tucker	Signature: James R Tucker	Date/Time: 12-29-00 - 12:00
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone# : 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 12 - 29-00
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ001020
P.O. #:

Sample Number	Sample Date & Time 12-29-00	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments 24 hr. Turnaround
JRT-1229-19	9:45									✓									Please
JRT-1229-20	9:50									✓									
JRT-1229-21	9:55									✓									
JRT-1229-22	10:10									✓									

Released by: James R. Tucker	Signature: James R. Tucker	Date/Time: 12-29-00 - 12:00
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 29 DEC 2000
DATE OF RECEIPT: 02 JAN 2001
DATE OF ANALYSIS: 02 JAN 2001
DATE OF REPORT: 03 JAN 2001

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 01-01-0076
PROJECT: CHAJ00100C

Quarters 763 + 762

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-1229-01	★ 0.593	142	★ 239
02	JRT-1229-02	★ 1.0	<20.0	★ <20.0
03	JRT-1229-03	★ 1.0	34.0	★ 34
04	JRT-1229-04	★ 0.968	227	★ 234
05	JRT-1229-05	★ 0.804	118	★ 146
06	JRT-1229-06	★ 1	<20.0	★ <20.0
07	JRT-1229-07	★ 0.631	<20.0	★ <20.0
08	JRT-1229-08	★ 1	143	★ 143
09	JRT-1229-09	★ 0.937	120	★ 128
10	JRT-1229-10	★ 1.0	<20.0	★ <20.0
11	JRT-1229-11	★ 1.0	36.0	★ 36.0
12	JRT-1229-12	★ 0.875	552	★ 630.
13	JRT-1229-13	★ 1.0	66.0	★ 66
14	JRT-1229-14	★ 0.875	203	★ 232
15	JRT-1229-15	★ 1.0	<20.0	★ <20.0
16	JRT-1229-16	★ 0.859	130	★ 151
17	JRT-1229-19	★ 1.0	37.0	★ 37
18	JRT-1229-20	★ 1.0	37.0	★ 37
19	JRT-1229-21	★ 1.0	<20.0	★ <20.0
20	JRT-1229-22	★ [illegible]	[illegible]	

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 29 DEC 2000
DATE OF RECEIPT: 02 JAN 2001
DATE OF ANALYSIS: 02 JAN 2001
DATE OF REPORT: 02 JAN 2001

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 01-01-0075
PROJECT: CHMI 001000

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mg/kg)
01	JRT-1229-17	1700
02	JRT-1229-18	190

QUALITY CONTROL DATA

BATCH#:	010201S-4
INCLUSIVE EHS SAMPLE NUMBERS:	01-02
Continuing Calibration Verification 10 (10.0ppm Pb)	99.9% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	103% Recovery
Laboratory Control Standard	116% Recovery
Matrix Spike	98.0% Recovery
Duplicate Relative Percent Difference	0.00 RPD
Reporting Limit	25.0ug
Method Detection Limit	2.50ug

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory: Irma Faszewski

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	mg/kg = milligrams per kilogram
	ml = milliliter	Pb = lead	

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EHS 01-01-1551

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Hcpb(Wipe)

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone#: 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 1-10-01
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMJ001000
P.O. #:

Sample Number	Sample Date & Time 1-10-01	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-0110-1	1:10									✓								1.0	
2	1:15									✓								1.32	SAMPLE CONDITION
3	1:20									✓								1.0	Acceptable ✓
4	1:25									✓								0.74	Unacceptable
5	1:30									✓								1.0	
6	1:40									✓								1.05	
7	1:45									✓								1.08	
8	1:50									✓								1.0	
9	1:55									✓								1.0	
										✓									

Released by: James R. Tucker	Signature: J R Tucker	Date/Time: 1-10-01 5:30pm
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time: 1/11/01 1:00

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone#: 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 1-10-01
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMI00100C
P.O. #:

Sample Number	Sample Date & Time 1-10-01	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-0110-10	2:10									✓								1.0	
-11	2:20									✓								1.0	
-12	3:00									✓								1.0	
-13	3:10									✓								1.0	
-14	3:20									✓								1.0	
-15	3:25									✓								1.0	
-16	4:00									✓								1.0	

Released by: James R. Tucker	Signature: J. R. Tucker	Date/Time: 1-10-01 - 5:30 pm
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time: 1/16/01 1:00

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 10 JAN 2001
DATE OF RECEIPT: 16 JAN 2001
DATE OF ANALYSIS: 16 JAN 2001
DATE OF REPORT: 16 JAN 2001

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 01-01-1551
PROJECT: CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-0110-1	1.0	198	200
02	JRT-0110-2	1.32	<20.0	<16
03	JRT-0110-3	1.0	<20.0	<20
04	JRT-0110-4	0.74	81.0	110
05	JRT-0110-5	1.0	<20.0	<20
06	JRT-0110-6	1.05	<20.0	<20
07	JRT-0110-7	1.08	48.0	44
08	JRT-0110-8	1.0	67.0	67
09	JRT-0110-9	1.0	53.0	53
10	JRT-0110-10	1.0	61.0	61
11	JRT-0110-11	1.0	<20.0	<20
12	JRT-0110-12	1.0	<20.0	<20
13	JRT-0110-13	1.0	<20.0	<20
14	JRT-0110-14	1.0	42.0	42
15	JRT-0110-15	1.0	28.0	28
16	JRT-0110-16	1.0	39.0	39

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 01-01-1551
PROJECT: CHMJ00100C

QUALITY CONTROL DATA

BATCH#:	011601W1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-16
Initial Calibration Verification (5.00ppm Pb)	104% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	103% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	105% Recovery
Laboratory Control Standard	104% Recovery
Matrix Spike	105% Recovery
Duplicate Relative Percent Difference	0.962 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc , was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C.
California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Company Name: General Engineering
Address: PO Box 30712
City, State, Zip: Charleston, SC 29417
EHS Client Account #:
Phone# : 843-769-7378 X-4483 **Fax#:** 843-769-7397

Date: 1-26-01
Contact Name: James R. Tucker
Sampler Name: James R. Tucker
Project #: CHMI 00100c
P.O. #:

Sample Number	Sample Date & Time	Asbestos: Bulk ID by PLM	Asbestos: Asbestos Wipe	Asbestos: Fiber Count (PCM)	Asbestos: TEM Air	Asbestos: TEM Chatfield (Bulk)	Lead: Air	Lead: Paint	Lead: Soil	Lead: Wipe	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-0126-1	1/26 8:00									✓								1.0	24 hr Turnaround
JRT-0126-2	1/26 8:10									✓								1.0	Please -
JRT-0126-3	1/26 8:20									✓								1.0	
JRT-0126-4	1/26 8:40									✓								1.0	
JRT-0126-5	1/26 - 9:30									✓								1.0	
JRT-0126-6	1/26 . 9:45									✓								1.0	

Released by: J R Tucker	Signature: J R Tucker	Date/Time: 1/26/00 10:30 am -
Received by:	Signature:	Date/Time:
Released by:	Signature:	Date/Time:
Received by:	Signature:	Date/Time:

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT: General Engineering
2040 Savage Road
Charleston, SC 29417

DATE OF SAMPLING: 26 JAN 2001
DATE OF RECEIPT: 29 JAN 2001
DATE OF ANALYSIS: 29 JAN 2001
DATE OF REPORT: 29 JAN 2001

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 01-01-3144
PROJECT: CHMI00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-0126-1	1.0	<20.0	<20
02	JRT-0126-2	1.0	<20.0	<20
03	JRT-0126-3	1.0	<20.0	<20
04	JRT-0126-4	1.0	<20.0	<20
05	JRT-0126-5	1.0	<20.0	<20
06	JRT-0126-6	1.0	<20.0	<20

QUALITY CONTROL DATA

BATCH#:	012901W-8
INCLUSIVE EHS SAMPLE NUMBERS:	01-06
Continuing Calibration Verification 10 (10.0ppm Pb)	100% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	105% Recovery
Laboratory Control Standard	102% Recovery
Matrix Spike	99.4% Recovery
Duplicate Relative Percent Difference	2.58 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

METHOD: NIOSH 7082M

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 42-4586 A
EHS PROJECT #: 01-01-3144
PROJECT: CHMI00100C

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C.
California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot

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Attachment Four

CERTIFICATIONS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAR 1 3 2000

4APT-TS

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. James R. Tucker
3045 Linksland Road
Mt. Pleasant, SC 29466-6911

SUBJ: Individual Certification for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities

Dear Mr. Tucker:

The United States Environmental Protection Agency (U.S. EPA), Region 4 has completed its review of your individual application dated January 5, 2000, for certification to engage in lead-based paint activities pursuant to 40 CFR Part 745, Subpart L (61 FR 45778, August 29, 1996). I am pleased to inform you that as of the date of this letter, you are U.S. EPA certified for the lead-based paint activities discipline of risk assessor. You will be mailed a U.S. EPA certificate for this discipline under separate cover at a future date.

This individual certification, which expires three years after the date of issuance, is valid only for U.S. EPA Region 4 and only in the State of South Carolina, excluding Indian tribes. If this U.S. EPA-administered state obtains program authorization at any time during the term of your current certification, the scope of your individual certification will be correspondingly diminished to exclude this affected area. Please be aware that your U.S. EPA certification does not relieve you of any obligations that you may otherwise have to any authorized or unauthorized state or Indian tribe to obtain licensure or certification from that state or Indian tribe under its statutory or regulatory requirements relating to lead-based paint activities. Your U.S. EPA individual certification is subject to the following restrictions.

1) Certification pertains only to the specific discipline, jurisdiction, and individual listed above that performs or offers to perform the associated lead-based paint activities within the scope of the discipline described in 40 CFR §745.223 and 40 CFR §745.227 pursuant to Section 402 of the Toxic Substances Control Act (TSCA) (15 U.S.C. 2682).

2) U.S. EPA certification does not mean that a state or Indian tribe with its own certification program must accept or recognize a U.S. EPA certification. Individual states and Indian tribes, whether authorized or not, have the right to accept or reject any certification under their own authority.

3) U.S. EPA certification is specific and limited to the location and discipline described above. If you wish to obtain certification in other U.S. EPA administered states or Indian tribes or in other lead-based paint activity disciplines, you will need to apply separately for this certification.

4) In advertising the U.S. EPA's certification, individuals must indicate clearly that the individual is only certified under Section 402 of TSCA for the respective discipline. Failure to accurately state U.S. EPA certification conditions could result in the U.S. EPA suspending or withdrawing certification.

5) The U.S. EPA may revoke or suspend its certification of any individual if subsequent alterations or deviations result with the individual no longer meeting the standards found at 40 CFR Part 745, Subpart L.

6) The U.S. EPA may conduct audits and/or inspections to ensure continued compliance with its regulatory standards.

Please submit any future notifications or correspondence with this office to the address given below.

Regional Lead Coordinator
U.S. EPA, Region 4
Pesticides and Toxic Substances Branch
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

If you have questions, or need assistance, please contact the Regional Lead Coordinator, Ms. Rose Anne Rudd of the U.S. EPA Region 4 staff at 404-562-8998. Thank you for your interest in providing certified lead-based paint activities services in the U.S. EPA Region 4.

Sincerely,

Carol L. Kemker

Carol L. Kemker
Chief
Pesticides and Toxic
Substances Branch

cc: Traci Brown, EPA HQ
Cathy Strasnick, Optimus Corporation

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAR 16 2000

4APT-TS

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. James R. Tucker
ASAP Environmental
3045 Linksland Road
Mt. Pleasant, SC 29466

SUBJ: Certification of Lead-Based Paint Activities Firm

Dear Mr. Tucker:

The United States Environmental Protection Agency (U.S. EPA), Region 4 has completed its review of your firm application dated January 5, 2000, for certification to become a lead-based paint activities firm pursuant to 40 CFR Part 745, Subpart L (61 FR 45778, August 29, 1996). I am pleased to inform you that as of the date of this letter, your lead-based paint activities firm is U.S. EPA certified. You will be mailed a U.S. EPA certificate under separate cover at a future date.

This firm certification, which expires three years after the date of issuance, is valid only for U.S. EPA Region 4, and only in the State of South Carolina, excluding Indian tribes. If the State of South Carolina obtains program authorization at any time during the term of your current certification, the scope of your firm certification will be correspondingly diminished to exclude this affected area. Please be aware that your U.S. EPA certification does not relieve you of any obligations that you may otherwise have to any authorized or unauthorized state or Indian tribe to obtain licensure or certification from that state or Indian tribe under its statutory or regulatory requirements relating to lead-based paint activities. Your U.S. EPA firm certification is subject to the following restrictions.

1) Certification pertains only to firms which perform or offer to perform any of the lead-based paint activities described in 40 CFR §745.227 pursuant to Section 402 of the Toxic Substances Control Act (TSCA) (15 U.S.C. 2682).

2) U.S. EPA certification does not mean that a state or Indian tribe with its own certification program must accept or recognize a U.S. EPA certification. Individual states and Indian tribes, whether authorized or not, have the right to accept or reject any certification under their own authority.

3) U.S. EPA certification is specific and limited to the location described above. If you wish to obtain certification in other U.S. EPA administered states or Indian tribes, you will need to apply separately for this certification.

4) In advertising the U.S. EPA's certification, firms must indicate clearly that the firm is only certified under Section 402 of TSCA. Failure to accurately state U.S. EPA certification conditions in advertisements could result in the U.S. EPA suspending or withdrawing certification.

5) The U.S. EPA may revoke or suspend its certification of any firm if subsequent alterations or deviations result in the firm no longer meeting the standards found at 40 CFR Part 745, Subpart L.

6) The U.S. EPA may conduct audits and/or inspections to ensure continued compliance with its regulatory standards.

Please submit any future notifications or correspondence with this office to the address given below.

Regional Lead Coordinator
U.S. EPA, Region 4
Pesticides and Toxic Substances Branch
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

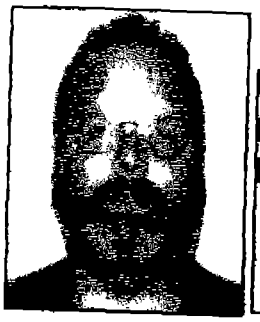
If you have questions or need assistance, please contact the Regional Lead Coordinator, Ms. Rose Anne Rudd of the EPA Region 4 staff at 404-562-8998. Thank you for your interest in providing certified lead-based paint activities services in U.S. EPA Region 4.

Sincerely,

Alfreda Freeman /for

Carol L. Kemker
Chief
Pesticides and Toxic
Substances Branch

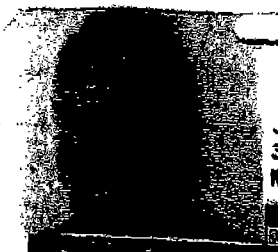
cc: Traci Brown, EPA HQ
Cathy Strasnick, Optimus Corporation



GEORGIA
[redacted]D CERTIFICATION

SSN			
228-62-5390			
DOB	SEX	HT	WT
1/4/1954	M	5'11"	250
CLASS			EXP
LEAD DESIGNER		140017	[redacted]
LEAD INSPECTOR		110250	[redacted]
RISK ASSESSOR		120244	[redacted]

James Tucker
3045 Linksland Road
Mt Pleasant, SC 29466



NORTH CAROLINA
LEAD CERTIFICATION

James R Tucker
3045 Linksland Rd
Mt Pleasant, SC 29466

RISK ASSESSOR	120835	INS 01-20-1999 RIS 01-22-1999	01-31-2001

This certification identification card has been issued pursuant to O.C.G.A. Section 31-41-1 et. seq. Georgia Lead Poiso[redacted]n Act and Chapter 391-3-24, Georgia Rules for Lead-Based Paint Abatement and Certification, and is subject to revocation if the holder fails to comply with the provisions of Chapter 13 of Title 50, the "Georgia Administrative Procedures Act".

This card is non-transferable and will become invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced.

This card is the property of the Georgia Environmental Protection Division. It must be returned to the Division if the holder's certification is revoked or if this card is invalidated. Any person performing regulated lead-based paint activities without current certification shall be subject to legal sanction.

For information or corrections, direct all inquiries to the following:
Georgia Department of Natural Resources
Environmental Protection Division
Lead-Based Paint and Asbestos Program
4244 International Parkway, Suite 104
Atlanta, Georgia 30354
(404) 363-7026

This certification identification card has been issued pursuant to Chapter 130A, Article 19A of the NC General Statutes and is subject to revocation if the holder fails to comply with the requirements of 15A NCAC 18C Section .0800 or if the certification was issued based upon incorrect or inadequate information.

This card is non-transferable and will become invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced.

This card is the property of the North Carolina Department of Health and Human Services. It must be returned to the Department if the holder's certification is revoked or if this card is invalidated. Any person performing regulated lead-based paint abatement activities without current certification shall be subject to legal sanction.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information or corrections, direct all inquiries to the following:

Health Hazards Control Unit
NC Department of Health and Human Services
Division of Public Health
1912 Mail Service Center Raleigh, NC 27699-1912
(919) 733-0629

Medical University of South Carolina
College of Health Professions
Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

JAMES R. TUCKER

Attended and Satisfactorily Completed

Inspection for Lead-Based Paint

conducted January 24, 2000 through January 26, 2000
and satisfactorily passed an exam on January 26, 2000.

Pb27120-99121	24	226-62-5390	T.A. Rowland, III
Certificate Number	Contact Hours	ID Number	Program Director
January 26, 2000	January 25, 2003		David M. Hunt, CIH
Exam Date	Certificate Expires		Instructor

AUGET LARGIENDO
UNIV. MED. CAR. AUS. 1824

Medical University of South Carolina
College of Health Professions
Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

JAMES R. TUCKER

Attended and Satisfactorily Completed

Risk Assessment of Lead-Based Paint

conducted January 27, 2000 through January 28, 2000
and satisfactorily passed an exam on January 28, 2000.

PbRA27120-00046	16	226-62-5390	T.A. Rowland, III
Certificate Number	Contact Hours	ID Number	Program Director
January 28, 2000	January 27, 2003		David M. Hunt, CIH
Exam Date	Certificate Expires		Instructor

AUCET LARGIENDO
UNIV. MED. CAR. AUG. 1824

Georgia Department of Natural Resources
Environmental Protection Division
Land Protection Branch
4244 International Parkway, Suite 104, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404) 363-7026

May 8, 2000

James Tucker
3045 Linksland Road
Mt Pleasant, SC 29466

Dear Mr. Tucker:

Your application for certification as Lead-Based Paint LEAD DESIGNER has been approved by the Environmental Protection Division in accordance with the Georgia Rules for Lead-Based Paint Abatement and Certification, Chapter 391-3-24. Your Georgia certification number is 140017. It is reflected on your enclosed Georgia Certification card.

Your Georgia certification is valid through February 23, 2001. In order to maintain certification as a Lead-Based Paint LEAD DESIGNER, you must pay the required renewal fee and recertify your license on or before the expiration date stated on your card. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Georgia Lead-Based Paint Abatement and Certification Rule and may be cited for noncompliance. It is your responsibility to ensure you have met all the requirements for renewal of your lead certification.

If you have any questions, please contact Tamara Carter at (404) 362-2704.

Sincerely,

Donald H. McCarty, Jr.
Program Manager I
Lead-Based Paint and Asbestos Program

Enclosure

Medical University of South Carolina

College of Health Professions
Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

CRAIG C. LANGFORD

2040 SAVAGE RD. CHARLESTON, SC 29402

Attended and Satisfactorily Completed

Inspection for Lead-Based Paint

conducted October 23, 2000 through October 25, 2000

and passed an exam on October 25, 2000.

127120-10002	24	248-43-3432	T.A. Rowland, III
Certificate Number	Contact Hours	ID Number	Program Director
October 25, 2000	October 25, 2003		David M. Hunt, CIH
Exam Date	EPA Interim Certification Expiration		Instructor

This certifies that the above recipient has completed the requisite training for Lead Certification under TSCA Section 402.

Medical University of South Carolina

College of Health Professions
Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

CRAIG C. LANGFORD

2040 SAVAGE RD. CHARLESTON, SC 29402

Attended and Satisfactorily Completed

Risk Assessment of Lead-Based Paint

conducted October 26, 2000 through October 27, 2000

and passed an exam on October 27, 2000.

PbRA27120-10005	16	248-43-3432	T.A. Rowland, III
Certificate Number	Contact Hours	ID Number	Program Director
October 27, 2000	October 27, 2003		David M. Hunt, CIH
Exam Date	EPA Interim Certification Expiration		Instructor

This certifies that the above recipient has completed the requisite training for Lead Certification under TSCA Section 402.