



# GLE ASSOCIATES, INC.

Architects • Engineers • Environmental Consultants

May 15, 2001

Mr. Robert Mannix  
Facility Architect Projects Manager  
State of Florida Department of Transportation  
Milepost 65, Florida's Turnpike  
(At Pompano Services Plaza)  
Pompano Beach, Florida 33069

**RE: Lead-Based Paint Testing  
Pompano Beach Microwave Tower – Milepost #67  
Steel Support Structures  
Florida's Turnpike**

GLE Project No: 01000-02257

Dear Mr. Mannix:

GLE Associates, Inc. (GLE) has completed the lead-based paint (LBP) testing of the steel support structures, for the future renovation project at the Pompano Beach Microwave Tower at milepost #67 of Florida's Turnpike.

Testing of the painted surfaces was performed by collecting bulk samples of each color of paint from random areas of the structure. The fieldwork was performed on May 7, 2001, by Mr. John Simmons and Mr. Jeffrey Stuart-Moore of GLE. Following collection of the samples, they were delivered to the laboratory for analysis by Flame Atomic Absorption Spectrometry in general accordance with modified NIOSH method 7082. The attached table details the results of our testing.

Based on the results obtained, detectable levels of lead were determined to be present in the paint chip samples collected. Depending on the degree and type of disturbance of these surfaces (i.e. sanding, cutting, demolishing), employers may be required to implement varying degrees of OSHA prescribed protective measures.

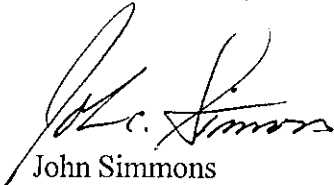
Mr. Robert Mannix  
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Under the present OSHA lead construction standard, all identified lead-containing paint affected by construction activities falls under the requirements of 29 CFR 1926. There are no current government guidelines defining a lead-based paint (LBP) concentration that creates a hazardous atmosphere when disturbed. Based on current OSHA guidelines, for those employees who will be disturbing lead-based paint, their employer must make an initial determination by monitoring employee exposure if any employee is exposed to airborne lead levels at or above 30 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) as established over an 8-hour TWA (time weighted average). The employer must implement OSHA prescribed protective measures until they can demonstrate that the employee exposure is not in excess of the action level.


These protective measures should be maintained until the employer can demonstrate that the employee exposure does not exceed the action level. The employer should also implement and maintain a written compliance program detailing the protective measures they will utilize to control lead exposure during modification activities.

GLE appreciates the opportunity to work with you on this project. If you should have any questions or need additional information, please contact us.

Sincerely,  
**GLE Associates, Inc.**



John Simmons  
Project Manager



Robert B. Greene PE, PG, CIH  
President

JCS/RBG/slk

**SUMMARY OF LEAD-BASED PAINT RESULTS**  
**POMPANO BEACH MICROWAVE TOWER - MILEPOST #67**  
**STEEL SUPPORT STRUCTURE**  
**GLE PROJECT NO.: 01000-02257**

Sample No.	Support Structure	Location	Substrate	Color	Condition	Results (by Weight)
1	Structure	Base	Steel	Red	Fair	0.090%
2	Structure	Base	Steel	Orange	Fair	0.079%

**APPENDIX A**  
**Chain of Custody and Laboratory Analysis**

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

## LEAD IN PAINT ANALYSIS SUMMARY

CLIENT: GLE Associates, Inc. DATE OF SAMPLING: 07 MAY 2001  
2700 West Cypress Creek Rd., Suite D-100 DATE OF RECEIPT: 14 MAY 2001  
Ft. Lauderdale, FL 33309 DATE OF ANALYSIS: 14 MAY 2001  
DATE OF REPORT: 15 MAY 2001

CLIENT NUMBER: 10-2086 D  
EHS PROJECT #: 05-01-1539  
PROJECT: 01000-02257; Pompano Beach Tower; Milepost #67

EHS SAMPLE#	CLIENT SAMPLE#	SAMPLE WEIGHT (g)	CONCENTRATION (% BY WEIGHT)
01	01-Red	0.209	0.090
02	02-Orange	0.247	0.079

### QUALITY CONTROL DATA

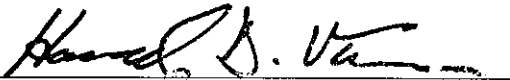
BATCH#:	051401P-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-02
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	97.0% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	97.6% Recovery
Laboratory Control Standard	99.5% Recovery
Matrix Spike	101% Recovery
Duplicate Relative Percent Difference	0.132 RPD
Reporting Limit	20.0ug
Method Detection Limit	2.2ug

PREPARATION METHOD: EPA 600/R-93/200

ANALYSIS METHOD: EPA SW846 7420

ANALYST: Bayard Vandegrift

Reviewed By Authorized Signatory:

  
Howard Varner, Laboratory Director  
Irma Faszewski, Quality Assurance Coordinator  
David Xu, MS, Senior Chemist  
Feng Jiang, MS, Senior Geologist  
Michael A. Mueller, Quality Assurance Manager

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 40ml 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 g = gram ug = microgram ppm = parts per million  
ml = milliliter Pb = lead

painpb08.dot/07MAY2001/mb

EHS 05-01-1539

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

2 Pb (Paint)

CHAIN OF CUSTODY FORM

Company Name: GLE ASSOCIATES, INC. Date: MAY 10, 2001  
 Address: 2700 WEST CYPRESS CREEK RD. - SUITE D-100 Contact Name: John Simmons  
 City, State, Zip: FL. LAUDERDALE, FL. 33309 Sampler Name: John Simmons  
 EHS Client Account #: \_\_\_\_\_ Project #: 9/000-02257  
 Phone #: 954-968-6414 Fax #: 954-968-6090 Hampden Beach Towler  
 P.O. #: \_\_\_\_\_ Milepost # 67

Sample Number	Sample Date & Time	Asbestos						Lead				Other Metals (Specify metals below)				Particulate: Total Nuisance (NIOSH 0500) <input type="checkbox"/> Respirable (NIOSH 0600) <input type="checkbox"/>		Comments			
		Bulk ID by PLM	(PCM) Fiber Count	PLM Point Count	PLM Gravimetric	TEM AHERA (Air)	TEM Chatfield (Bulk)	Air	Paint (%)	Paint (PPM)	Paint (mg/cm <sup>2</sup> )	Soil	Wipe * (See Note)	TCLP (Pb)	Waste Water	TCLP RCRA 8	Welding Fumes		Toxic Metal Profile	Air Volume (L) OR Wipe Area (ft <sup>2</sup> ) OR Scrape Area (cm <sup>2</sup> )	
1 01- Red	5/17/01																				
2 02- Orange	5/17/01																				

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No  NEED RESULTS 5-16-01

Released by: John C. Simmons Signature: J.C. Simmons Date/Time: 5/11/01 10:00AM  
 Received by: E. Hbleom Signature: E. Hbleom Date/Time: 5-11-01 9:06  
 Released by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**APPENDIX B**  
**Personnel/Laboratory Qualifications**

# United States Environmental Protection Agency

This is to certify that

*John C. Simmons*

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as a Inspector

In the State of:

FLORIDA

This certification is valid for three (3) years from the date of issuance and expires 4/2/04

FL-03-0420044380

Certification #

April 2, 2001

Issued on

Carol L. Kemker

Approving Official

Chief, Pesticides and Toxic Substances Branch

Title







# American Association for Laboratory Accreditation

## SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 White Pine Road

Richmond, VA 23237

Irma Faszewski Phone: 804 275 4788

### ENVIRONMENTAL

Valid To: August 31, 2002

Certificate Number: 0716-01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies: Atomic Absorption/ICP-AES Spectrometry, Atomic Absorption-Flame, Hazardous Waste Characteristics Tests

#### Nonpotable Water

Metals: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, Ti, V, Zn

per EPA test methods SW 3010A, 6010B, 7420, 7470A

#### Solid/Hazardous Waste

Metals: Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, Ti, V, Zn

per EPA test methods SW 3010A, 3050B, 6010B, 7420, 7470A, 7471A

Hazardous Waste Characteristics Test: TCLP

per EPA test method SW 1311

Environmental Lead: soil, paint chips (residue), dust, air, building debris

#### sample preparation

per EPA test methods SW3050B (soils, building debris); 3050B modified (paints, wipes)

per NIOSH test method 7082 (air)

per EPA test method 600/R-93/200 (sonification - air, paint, soil)

#### sample analysis

per EPA test methods SW 6010B, 7420

per NIOSH methods 7082, 7300





THE AMERICAN  
ASSOCIATION  
FOR LABORATORY  
ACCREDITATION

## ACCREDITED LABORATORY

A2LA has accredited

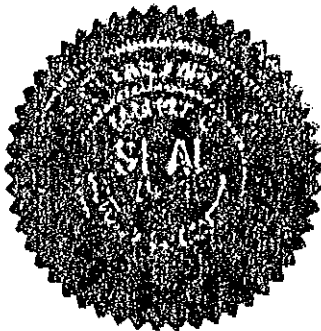
**ENVIRONMENTAL HAZARDS SERVICES,  
L.L.C.**  
Richmond, VA

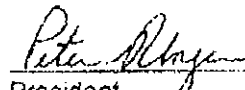
for technical competence in the field of

### Environmental Testing

The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration Laboratories". Testing and calibration laboratories that comply with this International Standard also operate in accordance with ISO 9001 or ISO 9002.

Presented this 4th day of December, 2000.



  
\_\_\_\_\_  
President  
For the Accreditation Council  
Certificate Number 716.01  
Valid to 08/31/2002

For tests or types of tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation



THE AMERICAN ASSOCIATION  
FOR LABORATORY ACCREDITATION

A2LA has accredited

**Environmental Hazards Services, L.L.C.**

**Richmond, VA**

under the

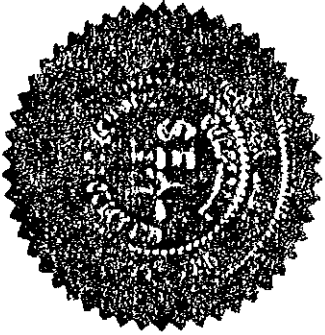
**ENVIRONMENTAL LEAD (Pb) TESTING  
LABORATORY ACCREDITATION PROGRAM**

By virtue of the on-site assessment of this laboratory's environmental lead (Pb) testing capabilities and successful participation in the Environmental Lead Proficiency Analytical Testing Program (ELPAT), this laboratory has been found to meet the A2LA Environmental Lead (Pb) Program Requirements. As such, this laboratory is recognized under the EPA Office of Pollution Prevention and Toxics' (OPPT) National Lead Laboratory Accreditation Program (NLLAP) for the matrices of dust, soil and paint chips (residue). The laboratory's accreditation covers the following matrices: dust, paint chips (residue), soil, air, and building debris.

Presented this 4<sup>th</sup> day of December, 2000.

President

For the Accreditation Council  
Certificate Number 716.01  
Valid to 08/31/2002



# The American Industrial Hygiene Association

*is proud to acknowledge that*

## Environmental Hazards Services

Richmond, VA

has fulfilled the requirements for and has been formally recognized by AIHA and is technically competent to perform the analyses listed in the following:

### SCOPE OF ACCREDITATION

**INDUSTRIAL HYGIENE**  
 Certifying Accredited: 03/01/90

- Metals
- Silica
- Asbestos PCM
- Asbestos PLM
- Organic Solvents
- Diffusive Samples

**ENVIRONMENTAL LEAD**  
 Certifying Accredited: 03/01/99

- Paint Chips
- Air
- Dust Wipes
- Soil

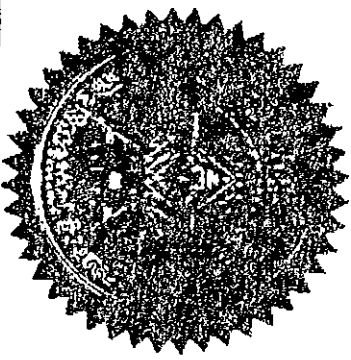
**ENVIRONMENTAL MICROBIOLOGY**

- Bacteria
- Fungi

The above named laboratory agrees to perform all analyses listed above in the scope of accreditation according to applicable policy requirements and acknowledges that continued accreditation is dependent on successful participation in the appropriate proficiency testing programs. This laboratory may be contacted to verify the current scope of accreditation, proficiency testing performance and accreditation status. Accreditation by AIHA is not a guarantee of the validity of the data generated by the laboratory.

Laboratory # 100420  
 Certificate # 412

Accreditation Expires: 03/01/02



*Christie A. Kearney*  
 Christie A. Kearney  
 Chair, Analytical Accreditation Board

*James R. Thornton*  
 James R. Thornton, CHL, CSP  
 President, AIHA