

**NESHAP ASBESTOS SURVEY AND LEAD BASED PAINT
REPORT**

**The Florida's Turnpike Overpass Bridge
FDOT Structure No. 940050**

**Project Development and Environment (PD&E) Study
Midway Road (CR 712) from
Glades Cut Off Road (CR 709) to Selvitz Road (CR 615)
St. Lucie County, Florida**

**Financial Project ID: 231440-3-22-01
Federal Aid Number:
ETDM Number: 14177**



**Florida Department of Transportation District 4
3400 West Commercial Boulevard
Fort Lauderdale, Florida 33309**

May 2016

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**Financial Project ID: 231440-3-22-01
Federal Aid Number:
ETDM Number: 14177**

Prepared for:
**Inwood Consulting Engineers
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765**

Prepared by:
**TIERRA SOUTH FLORIDA, INC.
2765 Vista Parkway, Suite 10
West Palm Beach, Florida 33411**

TSF Project No.: 7111-15-154

May 2016

NESHAP ASBESTOS SURVEY AND LEAD BASED PAINT REPORT

Midway Road (CR 712) Florida Turnpike (SR 91) Overpass Bridge

(FDOT Structure No. 940050)

St. Lucie County, Florida

FPID: 231440-3-22-01

Tierra South Florida Project No.: 7111-15-154

May 2016



Prepared for:

**Inwood Consulting Engineers
3000 Dovera Drive, Suite 200
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2765 Vista Parkway, Suite 10
West Palm Beach, Florida**

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EXECUTIVE SUMMARY

Tierra South Florida, Inc. (TSF) conducted a National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos survey and screening for Lead based coatings of the Midway Road (CR712) over The Florida's Turnpike bridge structure, located in St. Lucie County, Florida. The bridge structure is identified as Florida Department of Transportation (FDOT) Structure Number 940050. It is our understanding that the FDOT is planning to renovate and/or demolish the bridge structure.

The purpose of the *survey* was to identify and sample suspect Asbestos Containing Materials (ACMs) and screen metal surfaces for suspected lead based paint and/or protective coatings.

The purpose of this *report* is to provide information regarding the identity, location and approximate quantities of these materials so that proper remediation and disposal methods can be evaluated.

The survey was conducted on April 12, 2016 by an Asbestos Hazard Emergency Response Act (AHERA) accredited inspector in general accordance with the sampling protocols established in 40 Code of Federal Regulations (CFR), part 763. A total of seven (7) bulk samples were collected from three (3) homogeneous areas of suspect ACM. Five (5) paint chip samples were collected from various painted surfaces for testing of LBP.

- **No Asbestos Containing Materials were identified as a result of laboratory Polarized Light Microscopy (PLM) tests.**
- **LBP was identified in all five paint chip samples obtained from painted surfaces. LBP concentrations ranged from 26.4 mg/kg on white paint over caulking located under the bridge to 14,700 mg/kg on the guard rail located along south-east side of bridge overpass.**

A photographic log of homogenous areas is presented in **Appendix A**. Certifications and Licenses are included in **Appendix B**. The reports of laboratory analysis are provided in **Appendix C**.

This *Executive Summary* provides a brief overview of work activities completed in association with the proposed roadway improvement project. The reader should utilize the detailed information presented within this report for specific information regarding any area of particular interest.

1.0 INTRODUCTION

TSF conducted an asbestos survey and screening for lead-based coatings of the following bridge structure located in St. Lucie County:

- Midway Road (CR 712) over The Florida's Turnpike – Structure No. 940050

The survey was conducted in April 12, 2016 by an Asbestos Hazard and Emergency Response Act (AHERA) accredited asbestos inspector. The certification for Mr. Don Polanis is presented in **Appendix B**. Suspect Asbestos Containing Material (ACM) samples were collected in general accordance with the sampling protocols outlined in Environmental Protection Agency (EPA) regulation 40 CFR 763. Samples were shipped under chain of custody to an accredited laboratory for analysis by Polarized Light Microscopy (PLM). The work described herein was performed under the direction of Mr. Scott Crandall, P.E., a Florida Licensed Asbestos Consultant (License No. EA0000060). A certification page for this report is presented in **Appendix B**. The results of laboratory analysis are provided in **Appendix C**.

1.1 Project Objective

We understand this asbestos survey was requested due to the planned renovation and/or demolition of the existing bridge structure. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers and other hazardous air pollutants to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities. Based on the planned demolition and/or renovation of this bridge structure a lead based paint survey was also conducted to identify painted surfaces that may contain lead.

2.0 BRIDGE DESCRIPTION

According to the Ugly Bridges.com National Bridge Inventory Data, the existing bridge was constructed in 1957. The Midway Road (CR 712) over The Florida's Turnpike (SR 91) bridge structure (940050) is approximately 174 feet in length and the largest span is approximately 50 feet. The deck width is 33 feet and the maximum vertical clearance is 16.1 feet. Bridge embankment control is achieved with concrete backwalls on both ends of the bridge structure. There are 3 Main steel spans with a cast-in-place concrete deck. Guardrails at the approaches are galvanized "W" channel steel and painted steel on steel and wooden posts.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Don Polanis, an AHERA-accredited asbestos inspector. This report has been reviewed by a Licensed Asbestos Consultant (LAC) in accordance with the FDEP requirements for asbestos survey reports. A copy of the asbestos inspector's certificate and the signed review statement from the LAC are presented in **Appendix B**. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763. A summary of the survey activities performed is provided below.

3.1 Visual Assessment

Field survey activities began with a visual observation of the structure to identify homogeneous areas of suspect ACM. A homogeneous material consists of building materials that appear similar throughout in terms of color, texture and date of application. Building materials identified as steel, glass, wood, masonry, metal or rubber were not considered suspect ACM. If surfaces are covered with protective coatings those materials are noted and sampled.

A visual inspection of the bridge structure was performed to identify painted surfaces with possible lead based coatings. Painted surfaces were observed on various materials during this screening. Painted surfaces included guardrails, caulking, and painted metal structural bearing pad surfaces. No fiber or asphalt paper was noted on the bearing pad area only painted metal surfaces.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM and LPB was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Representative samples of suspect materials were collected in each homogeneous area. Generally, three (3) suspect ACMs were collected from the bridge structure. TSF personnel collected bulk samples using wet methods to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Painted surface samples were collected by collecting representative paint chip samples from the painted surface material. The paint chip samples were placed into sealable containers, labeled and submitted for laboratory analysis.

3.4 Sample Analysis

Bulk samples of ACM were submitted under chain of custody to Dove Environmental Corp. (Dove) of Miramar, Florida for analysis by PLM with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart F). The percentage of asbestos, where applicable, was determined by microscopic visual estimation. LBP samples were submitted to Pace Analytical Laboratory, a NELAC accredited laboratory, for Total Lead analysis by EPA Test Method 6010.

The U.S. EPA and the Occupational Safety and Health Administration (OSHA) define asbestos containing material (ACM) as any material which contains greater than one percent asbestos. When samples analyzed by PLM contain asbestos in amounts less than ten percent (<10%), a more exact method of analysis called point counting may be performed at the client's request. The EPA point count method allows a sample in which asbestos was visually detected, but which is visually estimated to have 10% or less asbestos, to be quantified using a point count procedure. If not point counted, a sample in which asbestos was visually detected and estimated (including trace to $\leq 1\%$) must be

assumed to be greater than 1% and treated as an ACM. The EPA point counting procedure is as follows: an ocular reticule (cross hair or point array) is used to visually superimpose a point or points on the microscope field of view. A total of 400 points superimposed on either asbestos fibers or non-asbestos matrix material must be counted over at least eight different preparations of representative sub-samples. If an asbestos fiber and matrix particle overlap so that a point is superimposed on their visual intersection, a point is scored for both categories. Point counting provides a quantification of the area percent asbestos. Per EPA's regulations, materials which have been point-counted and, therefore, quantitatively determined to have less than or equal to one percent ($\leq 1\%$) asbestos, can be treated as non-ACM. No samples were point counted during this survey.

A discussion of suspect ACM and LBP samples collected during the survey is included in **Section 6.0**.

4.0 PLAN REVIEW

Tierra requested the "as built" construction plans for the existing bridge structure to review for suspect Asbestos Containing Materials (ACMs) and metals-based coatings. However, the client indicated via email there was no record of "as built" bridge construction plans from the Florida Department of Transportation (FDOT), county or city for this bridge structure.

5.0 REGULATORY OVERVIEW

5.1 Asbestos Regulations

NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which are in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered Regulated ACM (RACM).

In the state of Florida, asbestos activities are regulated by the Florida Department of Environmental Protection (FDEP). RACM must be removed prior to demolition activities which will disturb the ACM materials. The owner or operator must provide the FDEP with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by a State of Florida licensed asbestos abatement contractor.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

5.2 Metals-Based Protective Coatings and Lead-Based Paint Regulations

Historically, metals such as arsenic, cadmium, chromium, lead, mercury and zinc were added to paints and other coatings as pigmentation and/or to improve performance, color and longevity. Specific regulations regarding lead-based paints have been developed by the EPA.

Lead-based paint is defined as a surface coating or paint containing lead in excess of 1.0 milligram per square centimeter (mg/cm²) or 0.5% by weight (EPA Toxic Substance Control Act, Section 401). 0.5% is equivalent to 5000 parts per million (ppm). Based on regulations contained in the Lead-Based Paint Poisoning Prevention Act (LBPPPA) and promulgated by the Consumer Product Safety Commission (CPSC), lead-based paint is defined as paint containing more than 0.06% lead as of June 1977. In 1978, the CPSC banned the sale of lead-based paint to consumers.

Under EPA regulations lead impacted wastes generated during abatement activities are handled as either a solid waste or a hazardous waste, depending on the amount and form of the metal.

If the maximum level of the contaminant in an extract of a representative sample of the waste stream proposed for disposal, as determined by a Toxicity Characteristic Leaching Procedure (TCLP) laboratory analysis (see *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, Test Method 1311, EPA Publication SW-846), is less than the regulatory level set in 40 CFR 261.24, then EPA regulations allow the material to be disposed of as solid waste at a solid waste landfill. If the TCLP analysis equals or exceeds the regulatory level, the material must be managed as a hazardous waste.

Impacted materials that are recycled, such as painted steel beams sent to a scrap metal yard, are not considered waste; therefore, they are exempt from waste disposal regulations, however other occupational exposure and recycling regulations may apply.

OSHA established the Lead Standard for the Construction Industry, 29 CFR 1926.62, which applies to all construction work where an employee may be exposed to lead. These exposures include demolition and salvage of structures where lead or material containing lead are present and removal or encapsulation of materials containing lead, as well as alterations and repairs including painting and decorating. The standard defines the occupationally permissible exposure limit and specific requirements for construction work with lead materials. OSHA does not have a percentage lead in paint action level in their current construction lead standard. OSHA regulations are driven by airborne lead exposure to workers. OSHA considers the lead regulation enforceable if the presence of *any* lead in paint at detectable concentrations is present when demolition or renovation activities are performed.

Any abatement of the lead-based paint or cutting, sanding, and/or grinding of the structures painted with LBP should be performed in accordance with OSHA regulations.

Demolition activities are regulated under the NESHAP statute for general dust control. Specifications for the proper work practices, controls and disposal should be developed to document compliance with all applicable regulations.

6.0 FINDINGS AND RECOMMENDATIONS

6.1 Asbestos

On April 12, 2016, a seven (7) bulk samples were collected from three (3) homogeneous areas of suspect ACM at the existing bridge structure. No ACMs were identified as a result of laboratory Polarized Light Microscopy (PLM) tests. See photographs in **Appendix A**. No bearing pads were noted during the visual assessment. Therefore no bearing pad samples were collected.

A summary of the suspect ACMs identified is provided in the following table, along with the results from the laboratory analysis. The analytical results are included in **Appendix C**.

Table 1: Summary of ACM S-5A

Sample No.	Material Description	Sample Location	Lab Results % Asbestos	NESHAP Category
1	White Caulking A	Retaining wall under bridge	Not Detected	N/A
2	White Caulking B	Retaining wall under bridge	Not Detected	N/A
3	White Caulking C	Retaining wall under bridge	Not Detected	N/A
4	Black joint compound A	Top bridge deck	Not Detected	N/A
5	Black joint compound B	Top bridge deck	Not Detected	N/A
6	Black joint compound C	Top bridge deck	Not Detected	N/A
7	Concrete	Bridge abutment	Not Detected	N/A

It should be noted that suspect materials, other than those identified during the survey could exist within the structure in areas not accessible to the inspector at the time of the survey. Should suspect materials other than those which were identified during this survey be uncovered during the renovation/demolition process, those materials should be assumed to be ACM until sampling and analysis can confirm or refute their asbestos content.

A photographic log of homogenous areas is presented in **Appendix A**. Certifications and Licenses are included in **Appendix B**. The reports of laboratory analysis are provided in **Appendix C**.

6.2 Heavy Metals-Based Protective Coatings

Five (5) LBP samples were from collected from the bridge structure and bridge approach structures. A summary of LBP analytical results is provided in the table below, along with the results from the laboratory. The analytical results are included in **Appendix C**.

Table 2: Summary of LBP Sample Results

Sample No.	Sample Description	Sample Location	Lab Results (mg/kg)
LB-1	Green Bridge Paint	Under bridge deck	41.1
LB-2	Guard rail south-east	South-east guard rail	14,700
LB-3	Bridge Paint SW	Southwest corner of bridge	50.1
LB-4	Guard Rail (old)	Near bridge span	13,400
LB-5	White paint on caulking	Under bridge	26.4

Five samples were collected from the bridge structure. Sample results ranged from 26.4 mg/kg on the painted caulking on retaining wall under the bridge to 14,700 mg/kg on the old guard rail located along the south east portion of the east bound overpass. Based on the results of the testing two of the samples exceed the USEPA definition for LBP of 5,000 ppm.

DPS recommends that the Contractor review the results and formulate a site specific health and safety plan (HASP) in accordance with federal, state and Contractor health and safety policies and abatement procedures. An overview of Lead regulations is discussed in section 5.2 of this report. Should the Contractor dispose of structures with painted surfaces testing and disposal of those materials should be conducted in accordance with the EPA requirements related to Lead Paint disposal. Should the Contractor recycle the structural steel, verify sample requirements if any with the recycling facility. All scrap metals (as defined in Title 40 Code of Federal Regulations (CFR), Part 261.1(c)(6) and (9)) that are generated during the demolition of the structure may be recycled by a permitted recycling company and are exempt from hazardous waste management standards.

7.0 GENERAL COMMENTS

This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the subject bridge structure. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. Tierra does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied, is made.

APPENDIX A

Photograph Log

Midway Road over The Florida's Turnpike (Bridge No. 940050)



View of FDOT bridge number



Homogeneous Area 1 – White Painted Caulking retaining wall under deck (samples 1, 2, and 3)



Homogeneous Area #1 White Painted Caulking (samples 1, 2, and 3)



Homogeneous Area 2 – Black joint compound Top Deck (Samples 4, 5, and 6)



Homogeneous Area 2 – Black joint compound Top Deck (samples 4, 5, and 6)



Sample # 7 Concrete – bridge abutment



Green Paint under Bridge (LBP Sample #1)



Guardrail South-East (LBP sample #2)



Bridge Paint Southwest (LBP Sample #3)



Guardrail near bridge (southeast guardrail) (LPB Sample #4)



White paint on Caulking under bridge (LBP Sample #5)



View of bearing pads (all metal)

APPENDIX B

Certifications and Licenses

May 2, 2016

**RE: NESHAP Asbestos Survey and Lead Based Paint Screening Report
Review and Report Certification
Project Development and Environment (PD&E) Study
Midway Road (CR 712) from Glades Cut Off Road (CR 709)
to Selvitz Road (CR 615) St. Lucie County, Florida
Financial Project ID: 231440-3-22-01
Federal Aid Number:
ETDM Number: 14177
TSF Project No.: 7111-15-154**

The purpose of this report is to present the results of the Lead Based Paint (LBP) screening and asbestos survey performed on April 13, 2016 at the above referenced project. This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the subject structure. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. Review of this report does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied, is made.



Donald R. Polanis, PSSC CGC
Certified Asbestos Inspector



FL PE No. 44650

cn=Scott S.
Crandall
2016.05.03

09:16:32 -04'00'

Scott S. Crandall, P.E.
Florida Licensed Asbestos Consultant
License No. EA0000060

Vern Roberts Environmental Training, Inc.
13987 94th Avenue N Seminole, FL 33776
727-593-3067
Asbestos Survey & Mechanical (Inspector) Refresher
Training

This is to Certify that
Donald R Polanis

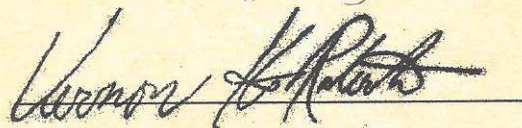
Has completed the requisite training for asbestos accreditation
under TSCA TITLE II

Date of Examination 8/13/15

Date of Course: 8/13/15 Expiration Date 8/13/16

Certificate # 3813152

Course # FL49-0006326 Provider # FL49-0003810



Instructor

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

LICENSE NUMBER

EA0000060

The ASBESTOS CONSULTANT - ENGINEER
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2016



CRANDALL, SCOTT S
DIVERSIFIED PROFESSIONAL SERVICES CORP
3600 10TH ST NE
ST PETERSBURG FL 33704



ISSUED: 09/30/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1409300007877

APPENDIX C

Laboratory Results

April 21, 2016

Don Polanis
Tierra, Inc.
7351 Temple Terrace Highway
Tampa, FL 33637

RE: Project: Midway Road Bridge
Pace Project No.: 35239090

Dear Don Polanis:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lori Palmer
lori.palmer@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Midway Road Bridge
Pace Project No.: 35239090

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Midway Road Bridge
Pace Project No.: 35239090

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35239090001	Green Bridge Paint Under Bridg	Solid	04/12/16 15:30	04/14/16 11:00
35239090002	Guard Rail South East	Solid	04/12/16 15:30	04/14/16 11:00
35239090003	Bridge Paint SW	Solid	04/12/16 15:30	04/14/16 11:00
35239090004	Guard Rail Near Bridge	Solid	04/12/16 15:30	04/14/16 11:00
35239090005	White Paint on Caulking Under	Solid	04/12/16 15:30	04/14/16 11:00

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SAMPLE ANALYTE COUNT

Project: Midway Road Bridge
Pace Project No.: 35239090

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35239090001	Green Bridge Paint Under Bridg	EPA 6010	MEW	1	PASI-O
35239090002	Guard Rail South East	EPA 6010	CKJ	1	PASI-O
35239090003	Bridge Paint SW	EPA 6010	MEW	1	PASI-O
35239090004	Guard Rail Near Bridge	EPA 6010	CKJ	1	PASI-O
35239090005	White Paint on Caulking Under	EPA 6010	MEW	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Midway Road Bridge
Pace Project No.: 35239090

Sample: Green Bridge Paint Under **Lab ID:** 35239090001 Collected: 04/12/16 15:30 Received: 04/14/16 11:00 Matrix: Solid
Bridg

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	41.1	mg/kg	4.0	2.0	1	04/20/16 19:40	04/21/16 08:43	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Midway Road Bridge
Pace Project No.: 35239090

Sample: Guard Rail South East Lab ID: 35239090002 Collected: 04/12/16 15:30 Received: 04/14/16 11:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	14700	mg/kg	19.2	9.6	5	04/20/16 19:40	04/21/16 14:59	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Midway Road Bridge

Pace Project No.: 35239090

Sample: Bridge Paint SW **Lab ID: 35239090003** Collected: 04/12/16 15:30 Received: 04/14/16 11:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	50.0	mg/kg	4.9	2.5	1	04/20/16 19:40	04/21/16 07:12	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Midway Road Bridge
Pace Project No.: 35239090

Sample: Guard Rail Near Bridge Lab ID: 35239090004 Collected: 04/12/16 15:30 Received: 04/14/16 11:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	13400	mg/kg	22.9	11.4	5	04/20/16 19:40	04/21/16 15:03	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Midway Road Bridge

Pace Project No.: 35239090

Sample: White Paint on Caulking **Lab ID:** 35239090005 Collected: 04/12/16 15:30 Received: 04/14/16 11:00 Matrix: Solid
Under

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	26.4	mg/kg	3.3	1.6	1	04/20/16 19:40	04/21/16 07:27	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Midway Road Bridge
Pace Project No.: 35239090

QC Batch: MPRP/29954 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35239090001

METHOD BLANK: 1547557 Matrix: Solid
Associated Lab Samples: 35239090001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	0.25 U	0.49	0.25	04/21/16 08:35	

LABORATORY CONTROL SAMPLE: 1547558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	12.2	12.8	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1547559 1547560

Parameter	Units	35239651011		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Lead	mg/kg	172	15.5	16.1	114	163	-377	-59	75-125	35	20	J(M1), J(R1)	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Midway Road Bridge

Pace Project No.: 35239090

QC Batch: MPRP/29955

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET Solid

Associated Lab Samples: 35239090002, 35239090003, 35239090004, 35239090005

METHOD BLANK: 1547576

Matrix: Solid

Associated Lab Samples: 35239090002, 35239090003, 35239090004, 35239090005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	0.26 U	0.52	0.26	04/21/16 06:41	

LABORATORY CONTROL SAMPLE: 1547577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	12.1	12.4	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1547578 1547579

Parameter	Units	35238794001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Lead	mg/kg	7.4	72.8	71.1	78.5	79.7	98	101	75-125	1	20			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Midway Road Bridge

Pace Project No.: 35239090

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

J(R1) Estimated Value. RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Midway Road Bridge
Pace Project No.: 35239090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35239090001	Green Bridge Paint Under Bridg	EPA 3050	MPRP/29954	EPA 6010	ICP/17885
35239090002	Guard Rail South East	EPA 3050	MPRP/29955	EPA 6010	ICP/17890
35239090003	Bridge Paint SW	EPA 3050	MPRP/29955	EPA 6010	ICP/17890
35239090004	Guard Rail Near Bridge	EPA 3050	MPRP/29955	EPA 6010	ICP/17890
35239090005	White Paint on Caulking Under	EPA 3050	MPRP/29955	EPA 6010	ICP/17890

REPORT OF LABORATORY ANALYSIS

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MO#: 35239090



35239090

Face Analytical
www.facelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <i>Face</i>	Report To: <i>Don Polans</i>	Attention: <i>Roan Kort</i>	Company Name: <i>Texas South Granite</i>	Address: <i>2765 West Barkley, Sd 10</i>	REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> RORA <input type="checkbox"/> OTHER
Address: <i>541-687-8336</i>	Copy To: <i>Don Polans</i>	Address: <i>2765 West Barkley, Sd 10</i>	Address: <i>2765 West Barkley, Sd 10</i>	City/State: <i>San Antonio, TX</i>	State: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> RORA <input type="checkbox"/> OTHER
Email To: <i>Don Polans</i>	Purchase Order No.:	Phone: <i>541-687-8336</i>	Phone: <i>214-334-1111</i>	City/State: <i>San Antonio, TX</i>	State: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> RORA <input type="checkbox"/> OTHER
Requested Due Date/TM: <i>5-2-10</i>	Project Name: <i>Mickey Kood Bldg</i>	Project Profile #:	Project Profile #:	Site Location: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> RORA <input type="checkbox"/> OTHER	State: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> RORA <input type="checkbox"/> OTHER

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				DATE	TIME			DATE	TIME				
1	Green Bird Bldg (Under Bldg)	DW	G	4/12	3:30		Unpreserved			Total Lead 6010			
2	Good Rail South 850ft	DW	G	4/12	3:30		H ₂ SO ₄						
3	Bridge Pond SW	WT	G	4/12	3:30		HNO ₃						
4	Good Rail (Near Bldg)	WT	G	4/12	3:30		HCl						
5	White Pond on Conley Lake Bldg	WT	G	4/12	3:30		NaOH						
6		Product					Na ₂ S ₂ O ₃						
7		Soil/Solid					Methanol						
8		Oil					Other						
9		Wipe											
10		Air											
11		Tissue											
12		Other											

REINQUISHED BY / AFFILIATION: <i>Don Polans</i>	DATE: <i>4/13/10</i>	TIME: <i>1:30</i>	ACCEPTED BY / AFFILIATION: <i>WPS</i>	DATE: <i>4/14/10</i>	TIME: <i>11:00</i>	SAMPLE CONDITIONS
SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER: <i>Don Polans</i>			DATE Signed (MM/DD/YY): <i>4-2-10</i>			
SIGNATURE of SAMPLER: <i>Don Polans</i>			Temp in °C			
			Received on Ice (Y/N)			
			Custody Sealed Cooler (Y/N)			
			Samples Intact (Y/N)			

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 06

Document Revised:
August 11, 2014
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: Tierra SF Project # 35239090

Courier: Fed Ex UPS USPS Client Commercial Pace
 Tracking # 1Z 754 E80 030059 5067
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used JPA-14 Type of Ice: Wet Blue (None)
 Cooler Temperature °C 22.3 (Visual) 0 (Correction Factor) 22.3 (Actual)

Other _____

Date and Initials of person examining contents: 4/14/16 alg

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?
 Yes No

Receipt of samples satisfactory: Yes No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):
Samples are paint chips

Project Manager Review: _____ Date: _____

Finished Product Information Only	
F.P. Sample ID: _____	Size & Qty of Bottles Received
Production Code: _____	_____ x 5 Gal
Date/Time Opened: _____	_____ x 2.5 Gal
Number of Unopened Bottles Remaining: _____	_____ x 1 Gal
	_____ x 1 Liter
	_____ x 500 mL
	_____ x 250 mL
	_____ x Other: _____
Extra Sample in Shed: Yes No	



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : DPS-CORP
ADDRESS: 27915 JOHNSTON RD
DADE CITY FL 33523
PROJECT: MIDWAY BRIDGE

PAGE : 1
DATE : 04/15/16
SAMPLE ID : D604423

CONSULT: DON POLONIS

NVLAP Lab Code: 102053-0

LAB NO. : 01
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : WHITE CAULKING
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 20% MINERALS
68% BITUMEN

SAMPLE NO.: 01
DATE OF ANALYSIS: 04/15/16

10% PAINT

LAB NO. : 02
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : WHITE CAULKING
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 20% MINERALS
68% BITUMEN

SAMPLE NO.: 02
DATE OF ANALYSIS: 04/15/16

10% PAINT

LAB NO. : 03
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : WHITE CAULKING
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 20% MINERALS
68% BITUMEN


SAMPLE NO.: 03
DATE OF ANALYSIS: 04/15/16


10% PAINT

=====

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=====


Analyst 1


R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : DPS-CORP
ADDRESS: 27915 JOHNSTON RD
DADE CITY FL 33523
PROJECT: MIDWAY BRIDGE

PAGE : 2
DATE : 04/15/16
SAMPLE ID : D604423

CONSULT: DON POLONIS

NVLAP Lab Code: 102053-0

LAB NO. : 04
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK JOINT COMPOUND
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 30% MINERALS
65% POLYMERS

SAMPLE NO.: 04
DATE OF ANALYSIS: 04/15/16

LAB NO. : 05
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK JOINT COMPOUND
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 30% MINERALS
65% POLYMERS

SAMPLE NO.: 05
DATE OF ANALYSIS: 04/15/16

LAB NO. : 06
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK JOINT COMPOUND
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 30% MINERALS
65% POLYMERS

SAMPLE NO.: 06
DATE OF ANALYSIS: 04/15/16

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=====

Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : DPS-CORP
ADDRESS: 27915 JOHNSTON RD
 DADE CITY FL 33523
PROJECT: MIDWAY BRIDGE

PAGE : 3
DATE : 04/15/16
SAMPLE ID : D604423

CONSULT: DON POLONIS

NVLAP Lab Code: 102053-0

LAB NO. : 07
FRI/HOM : NO/NO
DESCRIPTION : CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 60% MINERALS
 30% POLYMERS

LAYERS: 02

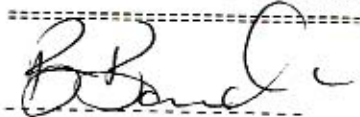
SAMPLE NO.: 07
DATE OF ANALYSIS: 04/15/16

8% PAINT

=====

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=====



Analyst 1



R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL LABORATORIES.

8910 Miramar Parkway, suite 200 Miramar Fl 33025

Tel(954-374-9274) Fax(954-639-7429)

E-mail: Dovelabs@dove.comcastbiz.net

Web Address: dovelabs.org

CHAIN OF CUSTODY - BULK ASBESTOS

Dove Client Name : DPS / T&E
Address : _____
Tel. #/Fax # : _____

Date : 4-13-16
Lab ID: D004423
Total Samples Collected: 7

Sample #	Description	Location	Results
1	White Caulking A	Retaining wall under bridge	
2	" " B	" "	
3	" " C	" "	
4	Black Joint Compound A	Top Deck	
5	" " B	" "	
6	" " C	" "	
7	Concrete	bridge abutment	

Project # : _____ Project Location: Pt. Pierce
Project Name: Midway Bridge

Sampler's Name : Don Polonis
Sampler's Signature : [Signature]
Date Collected By Sampler's : _____
Turn Around (Hrs): 3 8 24 48 other
(Std)
Condition of sample(s) received: _____
Comment : _____

Received At Lab By : [Signature]
Time Received At Lab : 10:30
Date Received At Lab : 04/14/16
Samples was login by : _____
Report Typed By: _____