



Shaw Environmental & Infrastructure, Inc.

**ASBESTOS SURVEY REPORT FOR RENOVATION**

***Bridge No. 150049***

***SR 679 – Pinellas Bayway Structure E Bridge  
over Boca Ciega Bay  
St. Petersburg, Pinellas County, Florida***

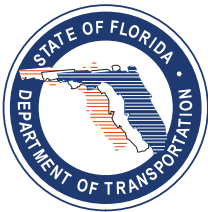
***Contract No. BDJ73***

***Financial Management No. 410775-1-C2-01***

***Shaw Project 134845***

***February 2009***

Submitted to:



Florida Department of Transportation  
District 7  
MS7-500, MP&D  
11201 North McKinley Drive  
Tampa, Florida 33612-6456

Submitted by:

Shaw Environmental & Infrastructure, Inc.  
725 US Highway 301 South  
Tampa, Florida 33619-4349

## ASBESTOS SURVEY TITLE SHEET

**Facility Name:** Bridge 150049

SR 679 – Pinellas Bayway Structure E Bridge

**Address/Location:** over Boca Ciega Bay

**City, County, State:** St. Petersburg, Pinellas County, Florida

**Owner Agency:** Florida Department of Transportation District 7

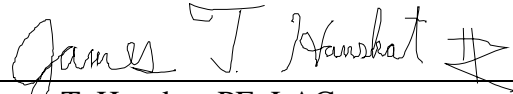
**Date of Survey:** January 21, 2009

**Consultant:** Shaw Environmental & Infrastructure, Inc.

**Consultant Address:** 725 US Highway 301 South

**City, State, Zip Code:** Tampa, Florida 33619-4349

**Telephone Number:** 813-626-2336



James T. Hanskat, PE, LAC

Licensed Asbestos Consultant, AX-0000031

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## ACRONYMS AND ABBREVIATIONS

### Surfacing Materials

SAS	–	acoustical/sprayed surfacing material
SAT	–	acoustical/troweled surfacing material
SFP	–	fireproofing/structural

### Thermal Materials

TPI	–	pipe insulation
TPC	–	pipe cover
TPE	–	pipe elbow/joint
TPM	–	pipe mastic

### Miscellaneous Materials

MAS	–	mastic/adhesive
MBB	–	vinyl baseboard
MBP	–	bearing pad
MCA	–	carpet adhesive
MCK	–	caulk/sealant
MCM	–	cementitious material/patch
MCT	–	ceiling tile
MDI	–	duct insulation
MDM	–	duct mastic
MEJ	–	expansion joint
MFD	–	fire door
MFT	–	floor tile
MGS	–	gasket
MJC	–	joint compound
MMB	–	moisture barrier (felt)
MPC	–	“popcorn” textured ceiling finish
MPL	–	plaster
MRP	–	railing pads
MSI	–	sink insulation
MST	–	stucco
MSV	–	sheet vinyl/flooring
MTC	–	cementitious/Transite-type conduit/pipe
MTP	–	cementitious/Transite-type panel
MVD	–	vibration damper
MVP	–	vibration pads
MWB	–	wallboard
MWG	–	window glazing
MWP	–	wallpaper/covering

### Roofing Materials

RBV	–	built-up roofing
RAS	–	asphalt shingle
RFT	–	tarpaper and felt
RRM	–	rolled membrane
RFM	–	flashing mastic
RTP	–	Transite-type panel/shingle

**SECTION 1**

**SURVEY SUMMARY FORMS**

## **ASBESTOS SURVEY OVERVIEW**

The Florida Department of Transportation (FDOT) District 7 will be renovating Bridge 150049, the SR 679 – Pinellas Bayway Structure E Bridge, located over Boca Ciega Bay, St. Petersburg, Pinellas County, Florida, and requested that an asbestos survey be performed to determine the presence, if any, of suspect asbestos-containing material (ACM). The survey follows the Asbestos Hazard Emergency Response Act (AHERA) protocol for compliance under the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Mr. William Zukauskas of Shaw Environmental & Infrastructure, Inc. (Shaw) performed the asbestos survey on January 21, 2009 to determine the location, extent, and condition of ACM, if any.

During the asbestos survey, samples of the following materials were collected to determine asbestos content: concrete, mastic, lightweight concrete patching, tarpaper, expansion joint material, bearing pads, vinyl floor tile, caulk, vinyl baseboard, wall plaster, wallboard and joint compound, paint, tar, vibration damper, and brake shoes.

Samples of suspect materials were submitted for analysis to an independent laboratory certified by the National Voluntary Laboratory Accreditation Program (NVLAP). Additionally, as per FDOT requirements, a quality control/quality assurance (QA/QC) sample was collected and submitted for analysis to a second NVLAP-certified laboratory.

The laboratory analysis of the samples collected during this survey did not detect any asbestos. No asbestos-containing building materials (ACBMs) were identified during the survey. Renovation or demolition can proceed without any engineering controls. The use of wet demolition methods is recommended.

Homogeneous area HA 30 (brake shoes on lift equipment) was assumed to be ACM because of its inaccessibility. Since this material is Category I nonfriable, it is not considered to be regulated asbestos-containing material (RACM). However, during demolition or renovation activities that will impact the brake unit, the brake shoes should be removed intact, using wet methods to minimize the potential for fiber release.

## ASBESTOS SURVEY REPORT – FORM 1

### BRIDGE IDENTIFICATION

County: Pinellas County, Florida  
Agency: Florida Department of Transportation District 7  
Facility/Bridge Name: SR 679 – Pinellas Bayway Structure E Bridge  
Bridge No.: 150049  
Address and/or Geographic Location: over Boca Ciega Bay, St. Petersburg, FL  
Bridge Asbestos Contact Person: Jose P. Garcia Telephone Number: 813-744-6050  
FDOT Contact: Jose P. Garcia Telephone Number: 813-744-6050

### SURVEY IDENTIFICATION

Date of Survey: January 21, 2009 Date of Report: February 25, 2009  
Contract No.: BDJ73  
FM No.: 410775-1-C2-01  
Consultant's Name: James T. Hanskat, PE, LAC License No.: AX-0000031  
Name of Firm: Shaw Environmental & Infrastructure, Inc.  
Address: 725 US Highway 301 South, Tampa, Florida 33619-4349  
Telephone Number: 813-626-2336

### BRIDGE INFORMATION

Year of Construction: Bridge 150049 - 1961  
Renovation Dates: Bridge 150049 - Unknown  
Bridge Documents/Drawings Available/Consulted:  
Types: Plans ☒ Yes ☐ No Location file  
Specifications ☐ Yes ☐ No Location \_\_\_\_\_  
Other ☐ Yes ☐ No Location \_\_\_\_\_  
Asbestos Documents ☐ Yes ☐ No Location \_\_\_\_\_  
☐ Yes ☐ No Location \_\_\_\_\_  
☐ Yes ☐ No Location \_\_\_\_\_

### STRUCTURAL DATA

Vertical Support: concrete Horizontal: concrete  
Decking: concrete and metal  
Span: 2 lanes Gaskets: NA  
Bearing Pads: rubber Railings: concrete and metal

If applicable:

Roof: concrete  
Floors: vinyl floor tile and mastic Ceilings: plaster on concrete  
Exterior Walls: poured concrete Partition Walls: plaster on concrete  
HVAC System: ☒ Yes ☐ No Type: window unit

## ASBESTOS SURVEY AND ASSESSMENT – FORM 2

Bridge Name: Bridge 150049, SR 679 – Pinellas Bayway Structure E Bridge, over Boca Ciega Bay Contract No.: BDJ73  
 Date of Survey: January 21, 2009 Agency: Florida Department of Transportation District 7  
 Consultant: Shaw Environmental & Infrastructure, Inc. FDOT Contact Person: Jose P. Garcia

Sample No.	Material Description	Homogeneous Area No.	Area Description	Quantity (Total for HA)	Friable Y/N	Asbestos Type & % or PACM	Condition G/F/P	Damage Potential H/M/L	Hazard Assessment 0-7	Response Priority 1-8	Response Cost	Air Mon Cost	Replace Cost
1.1	CONCRETE	1	BRIDGE DECK AND COLUMNS	58,012 SF	N	NAD	G	L	0	8	0	0	0
1.2	CONCRETE	1	BRIDGE DECK AND COLUMNS	58,012 SF	N	NAD	G	L	0	8	0	0	0
1.3	CONCRETE	1	BRIDGE DECK AND COLUMNS	58,012 SF	N	NAD	G	L	0	8	0	0	0
2.1	CONCRETE	2	RAILS AND BEAMS	11,472 SF	N	NAD	G	L	0	8	0	0	0
2.2	CONCRETE	2	RAILS AND BEAMS	11,472 SF	N	NAD	G	L	0	8	0	0	0
2.3	CONCRETE	2	RAILS AND BEAMS	11,472 SF	N	NAD	G	L	0	8	0	0	0
3.1	CONCRETE	3	CURB	8,604 SF	N	NAD	G	L	0	8	0	0	0
3.2	CONCRETE	3	CURB	8,604 SF	N	NAD	G	L	0	8	0	0	0
3.3	CONCRETE	3	CURB	8,604 SF	N	NAD	G	L	0	8	0	0	0
4.1	CONCRETE	4	SEAWALL	12,000 SF	N	NAD	G	L	0	8	0	0	0
4.2	CONCRETE	4	SEAWALL	12,000 SF	N	NAD	G	L	0	8	0	0	0
4.3	CONCRETE	4	SEAWALL	12,000 SF	N	NAD	G	L	0	8	0	0	0
5.1	CONCRETE	5	ABUTMENT WALLS	10,900 SF	N	NAD	G	L	0	8	0	0	0
<b>COMMENTS/NOTES:</b> Y - Yes N - No G - Good F - Fair P - Poor H - High M - Medium L - Low NA - Not Applicable  1. All quantities given in square feet unless otherwise indicated.  2. All costs provided assume one mobilization.  <b>3. Shaded and bold text indicates Asbestos-Containing Material (ACM) or Presumed Asbestos-Containing Material (PACM).</b>									Subtotals		0	0	0
									Consultant Fees		See Form 2 Page 6		
									O & M Costs		See Form 2 Page 6		
									TOTAL		See Form 2 Page 6		



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Sample No.	Material Description	Homo-geneous Area No.	Area Description	Quantity (Total for HA)	Friable Y/N	Asbestos Type & % or PACM	Condition G/F/P	Damage Potential H/M/L	Hazard Assessment 0-7	Response Priority 1-8	Response Cost	Air Mon Cost	Replace Cost
5.2	CONCRETE	5	ABUTMENT WALLS	10,900 SF	N	NAD	G	L	0	8	0	0	0
5.3	CONCRETE	5	ABUTMENT WALLS	10,900 SF	N	NAD	G	L	0	8	0	0	0
6.1	BLACK MASTIC	6	UNDER ROAD REFLECTORS	20 SF	N	NAD	G	L	0	8	0	0	0
6.2 QA/QC	BLACK MASTIC	6	UNDER ROAD REFLECTORS	20 SF	N	NAD	G	L	0	8	0	0	0
7.1	GRAY MASTIC	7	UNDER RAILING REFLECTORS	8 SF	N	NAD	G	L	0	8	0	0	0
7.2 QA/QC	GRAY MASTIC	7	UNDER RAILING REFLECTORS	8 SF	N	NAD	G	L	0	8	0	0	0
8.1	BLACK MASTIC	8	PATCHES ON WEST SIDEWALK	4 SF	N	NAD	G	L	0	8	0	0	0
9.1	GRAY MASTIC	9	PATCHES ON WEST SIDEWALK	4 SF	N	<1%	G	L	0	8	0	0	0
10.1	CONCRETE	10	REPLACEMENT RAIL POSTS	200 SF	N	NAD	G	L	0	8	0	0	0
10.2	CONCRETE	10	REPLACEMENT RAIL POSTS	200 SF	N	NAD	G	L	0	8	0	0	0
10.3	CONCRETE	10	REPLACEMENT RAIL POSTS	200 SF	N	NAD	G	L	0	8	0	0	0
11.1	LIGHTWEIGHT CONCRETE PATCHING	11	ON RAILS AND BRIDGE DECK	180 SF	N	NAD	G	L	0	8	0	0	0
11.2	LIGHTWEIGHT CONCRETE PATCHING	11	ON RAILS AND BRIDGE DECK	180 SF	N	NAD	G	L	0	8	0	0	0
<b>COMMENTS/NOTES:</b> Y - Yes N - No G - Good F - Fair P - Poor H - High M - Medium L - Low NA - Not Applicable  1. All quantities given in square feet unless otherwise indicated.  2. All costs provided assume one mobilization.  <b>3. Shaded and bold text indicates Asbestos-Containing Material (ACM) or Presumed Asbestos-Containing Material (PACM).</b>								Subtotals		0	0	0	
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11.3	LIGHTWEIGHT CONCRETE PATCHING	11	ON RAILS AND BRIDGE DECK	180 SF	N	NAD	G	L	0	8	0	0	0
12.1	BLACK TARPAPER	12	AT RAIL POSTS	768 SF	N	NAD	G	L	0	8	0	0	0
12.2	BLACK TARPAPER	12	AT RAIL POSTS	768 SF	N	NAD	G	L	0	8	0	0	0
12.3	BLACK TARPAPER	12	AT RAIL POSTS	768 SF	N	NAD	G	L	0	8	0	0	0
13.1	BLACK AND GRAY EXPANSION JOINT MATERIAL	13	BETWEEN DECK SECTIONS	76 SF	N	NAD	G	L	0	8	0	0	0
13.2	BLACK AND GRAY EXPANSION JOINT MATERIAL	13	BETWEEN DECK SECTIONS	76 SF	N	NAD	G	L	0	8	0	0	0
13.3	BLACK AND GRAY EXPANSION JOINT MATERIAL	13	BETWEEN DECK SECTIONS	76 SF	N	NAD	G	L	0	8	0	0	0
14.1	DARK GRAY CONCRETE PATCH	14	ON WEST SIDEWALK	40 SF	N	NAD	G	L	0	8	0	0	0
15.1	LIGHT GRAY CONCRETE	15	POURED ON ABUTMENT WALL NORTH END	450 SF	N	NAD	G	L	0	8	0	0	0
15.2	LIGHT GRAY CONCRETE	15	POURED ON ABUTMENT WALL NORTH END	450 SF	N	NAD	G	L	0	8	0	0	0
15.3	LIGHT GRAY CONCRETE	15	POURED ON ABUTMENT WALL NORTH END	450 SF	N	NAD	G	L	0	8	0	0	0
16.1	DARK GRAY CONCRETE	16	POURED ON ABUTMENT WALL NORTH END	200 SF	N	NAD	G	L	0	8	0	0	0
16.2	DARK GRAY CONCRETE	16	POURED ON ABUTMENT WALL NORTH END	200 SF	N	NAD	G	L	0	8	0	0	0
<b>COMMENTS/NOTES:</b> Y - Yes N - No G - Good F - Fair P - Poor H - High M - Medium L - Low NA - Not Applicable  1. All quantities given in square feet unless otherwise indicated.  2. All costs provided assume one mobilization.  <b>3. Shaded and bold text indicates Asbestos-Containing Material (ACM) or Presumed Asbestos-Containing Material (PACM).</b>									Subtotals		0	0	0
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16.3	DARK GRAY CONCRETE	16	POURED ON ABUTMENT WALL NORTH END	200 SF	N	NAD	G	L	0	8	0	0	0	
17.1	BLACK RUBBER BEARING PADS	17	UNDER SUPPORT POSTS AND AT BRIDGE ENDS	120 SF	N	NAD	G	L	0	8	0	0	0	
17.2	BLACK RUBBER BEARING PADS	17	UNDER SUPPORT POSTS AND AT BRIDGE ENDS	120 SF	N	NAD	G	L	0	8	0	0	0	
17.3	BLACK RUBBER BEARING PADS	17	UNDER SUPPORT POSTS AND AT BRIDGE ENDS	120 SF	N	NAD	G	L	0	8	0	0	0	
18.1	BROWN CONCRETE	18	PATCH ON SIDEWALKS NW AND SE SIDES	4 SF	N	NAD	G	L	0	8	0	0	0	
19.1	1'X 1' TAN VINYL FLOOR TILE WITH TAN MASTIC	19	TENDER HOUSE AT BRIDGE LEVEL	144 SF	N	NAD	G	L	0	8	0	0	0	
19.2	1'X 1' TAN VINYL FLOOR TILE WITH TAN MASTIC	19	TENDER HOUSE AT BRIDGE LEVEL	144 SF	N	NAD	G	L	0	8	0	0	0	
19.3	1'X 1' TAN VINYL FLOOR TILE WITH TAN MASTIC	19	TENDER HOUSE AT BRIDGE LEVEL	144 SF	N	NAD	G	L	0	8	0	0	0	
20.1	GRAY CAULK	20	TENDER HOUSE EXTERIOR AND INTERIOR OF METAL WINDOW FRAMES	28 SF	N	NAD	G	L	0	8	0	0	0	
21.1	4" TAN VINYL BASEBOARD WITH TAN MASTIC	21	TENDER HOUSE BRIDGE LEVEL	18 SF	N	NAD	G	L	0	8	0	0	0	
22.1	PLASTER	22	TENDER HOUSE INTERIOR WALLS AND CEILINGS	560 SF	N	NAD	G	L	0	8	0	0	0	
22.2	PLASTER	22	TENDER HOUSE INTERIOR WALLS AND CEILINGS	560 SF	N	NAD	G	L	0	8	0	0	0	
22.3	PLASTER	22	TENDER HOUSE INTERIOR WALLS AND CEILINGS	560 SF	N	NAD	G	L	0	8	0	0	0	
<b>COMMENTS/NOTES:</b> Y - Yes N - No G - Good F - Fair P - Poor H - High M - Medium L - Low NA - Not Applicable  1. All quantities given in square feet unless otherwise indicated.  2. All costs provided assume one mobilization.  <b>3. Shaded and bold text indicates Asbestos-Containing Material (ACM) or Presumed Asbestos-Containing Material (PACM).</b>										Subtotals		0	0	0
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23.1	WALLBOARD AND JOINT COMPOUND	23	TENDER HOUSE 2 <sup>ND</sup> LEVEL RESTROOM	72 SF	N	NAD	G	L	0	8	0	0	0	
24.1	YELLOW PAINT	24	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
24.2	YELLOW PAINT	24	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
24.3	YELLOW PAINT	24	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
24.4 QA/QC	YELLOW PAINT	24	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
25.1	WHITE PAINT	25	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
25.2	WHITE PAINT	25	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
25.3	WHITE PAINT	25	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
25.4 QA/QC	WHITE PAINT	25	ROAD STRIPES	1,434 SF	N	NAD	G	L	0	8	0	0	0	
26.1	LIGHT GRAY CONCRETE	26	LIP AROUND MAN WAY ON SE SIDE OF BRIDGE	8 SF	N	NAD	G	L	0	8	0	0	0	
27.1	BLACK TAR	27	AT LIGHT POST BY SIDEWALK ON SE SIDE	1 SF	N	NAD	G	L	0	8	0	0	0	
28.1	BLACK VIBRATION DAMPERS	28	AT NORTH AND SOUTH BRIDGE ENDS	456 SF	N	NAD	G	L	0	8	0	0	0	
28.2	BLACK VIBRATION DAMPERS	28	AT NORTH AND SOUTH BRIDGE ENDS	456 SF	N	NAD	G	L	0	8	0	0	0	
<b>COMMENTS/NOTES:</b> Y - Yes N - No G - Good F - Fair P - Poor H - High M - Medium L - Low NA - Not Applicable  1. All quantities given in square feet unless otherwise indicated.  2. All costs provided assume one mobilization.  <b>3. Shaded and bold text indicates Asbestos-Containing Material (ACM) or Presumed Asbestos-Containing Material (PACM).</b>										Subtotals		0	0	0
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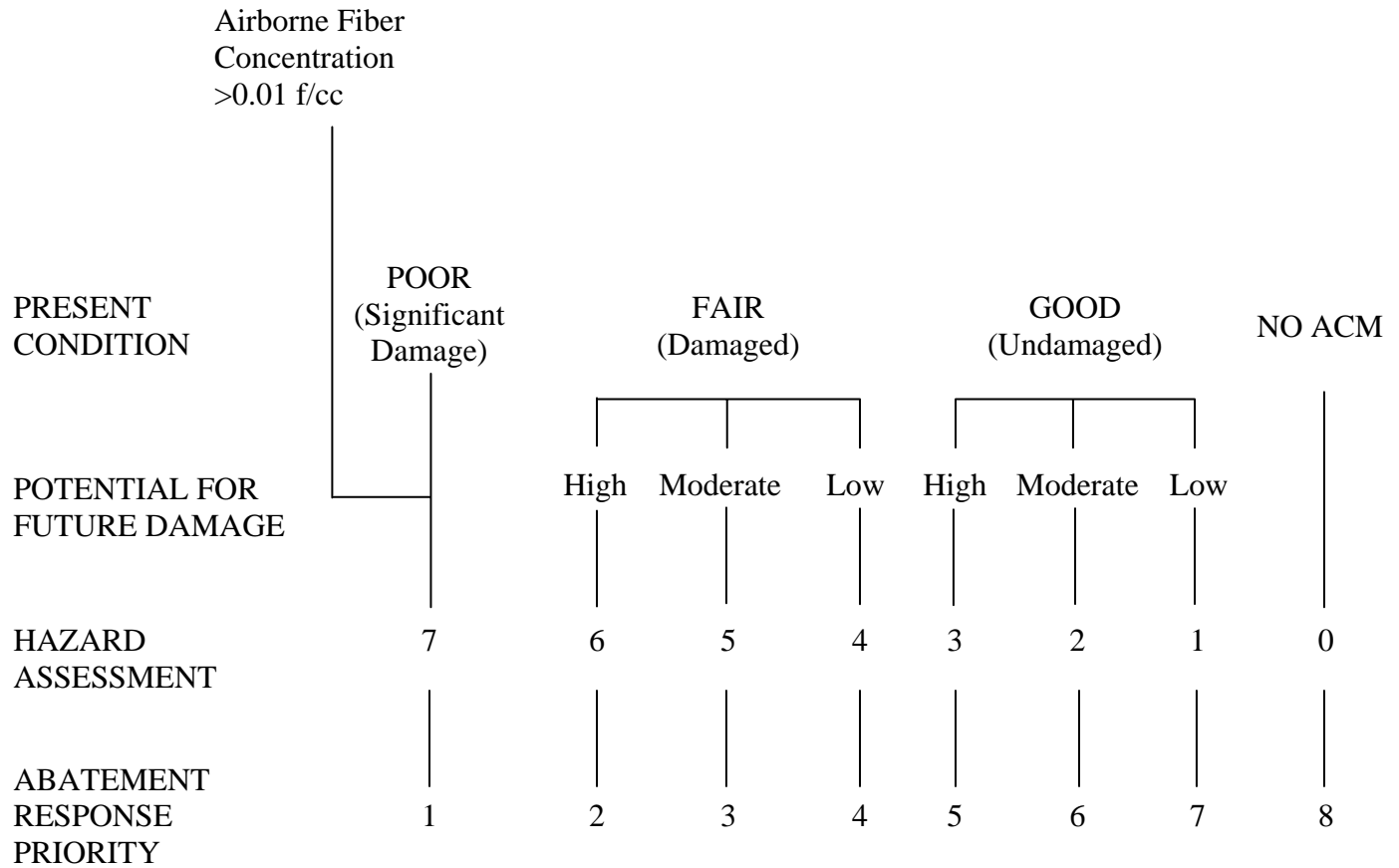
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Sample No.	Material Description	Homogeneous Area No.	Area Description	Quantity (Total for HA)	Friable Y/N	Asbestos Type & % or PACM	Condition G/F/P	Damage Potential H/M/L	Hazard Assessment 0-7	Response Priority 1-8	Response Cost	Air Mon Cost	Replace Cost	
28.3	BLACK VIBRATION DAMPERS	28	AT NORTH AND SOUTH BRIDGE ENDS	456 SF	N	NAD	G	L	0	8	0	0	0	
29.1	CONCRETE	29	PILINGS/PIERS AT WOOD FENDERS	7,040 SF	N	NAD	G	L	0	8	0	0	0	
29.2	CONCRETE	29	PILINGS/PIERS AT WOOD FENDERS	7,040 SF	N	NAD	G	L	0	8	0	0	0	
29.3	CONCRETE	29	PILINGS/PIERS AT WOOD FENDERS	7,040 SF	N	NAD	G	L	0	8	0	0	0	
ASSUMED	<b>BRAKE SHOES</b>	<b>30</b>	<b>ON BRIDGE LIFT EQUIPMENT</b>	<b>4 SF</b>	<b>N</b>	<b>ASSUMED ACM</b>	<b>G</b>	<b>L</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	
											0	0	0	
											0	0	0	
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										Consultant Fees		0		
										O & M Costs		0		
										TOTAL		0.00		

# ASBESTOS HAZARD ASSESSMENT DECISION TREE

## MATERIAL



Because people tend to equate a “1” with top priority, the assessment numbers are reversed to establish the response priority.

## ASBESTOS SURVEY REPORT – FORM 3

### PERSONNEL SUMMARY

**Facility/Bridge Name:** SR 679 – Pinellas Bayway Structure E Bridge over Boca Ciega Bay  
**Bridge No.:** Bridge 150049

**Date of Survey:** January 21, 2009

<b>Name and Address</b>	<b>Task Performed</b>	<b>License or Certificate</b>
James T. Hanskat, PE, LAC	Asbestos Consultant	AX-0000031
Shaw Environmental & Infrastructure, Inc. 725 US Highway 301 South Tampa, Florida 33619-4349	Asbestos Business	ZA-317
William Zukauskas	Asbestos Inspector	080422-0197
Shaw Environmental & Infrastructure, Inc. 9143 Philips Highway, Suite 400 Jacksonville, Florida 32256-7460	Asbestos Management Planner	080423-0217
EMSL Analytical, Inc. (EMSL) 5125 Adanson Street, Suite 900 Orlando, FL 32804	Bulk Analysis	NVLAP No. 101151-0
International Asbestos Testing Laboratory (IATL) 9000 Commerce Parkway, Suite B Mt. Laurel, New Jersey 08054	Quality Assurance	NVLAP No. 101165-0

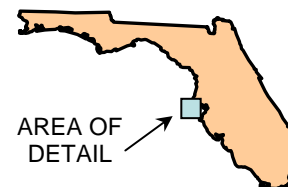
**SECTION 2**  
**BRIDGE DIAGRAM(S)**





## Legend

Not To Scale



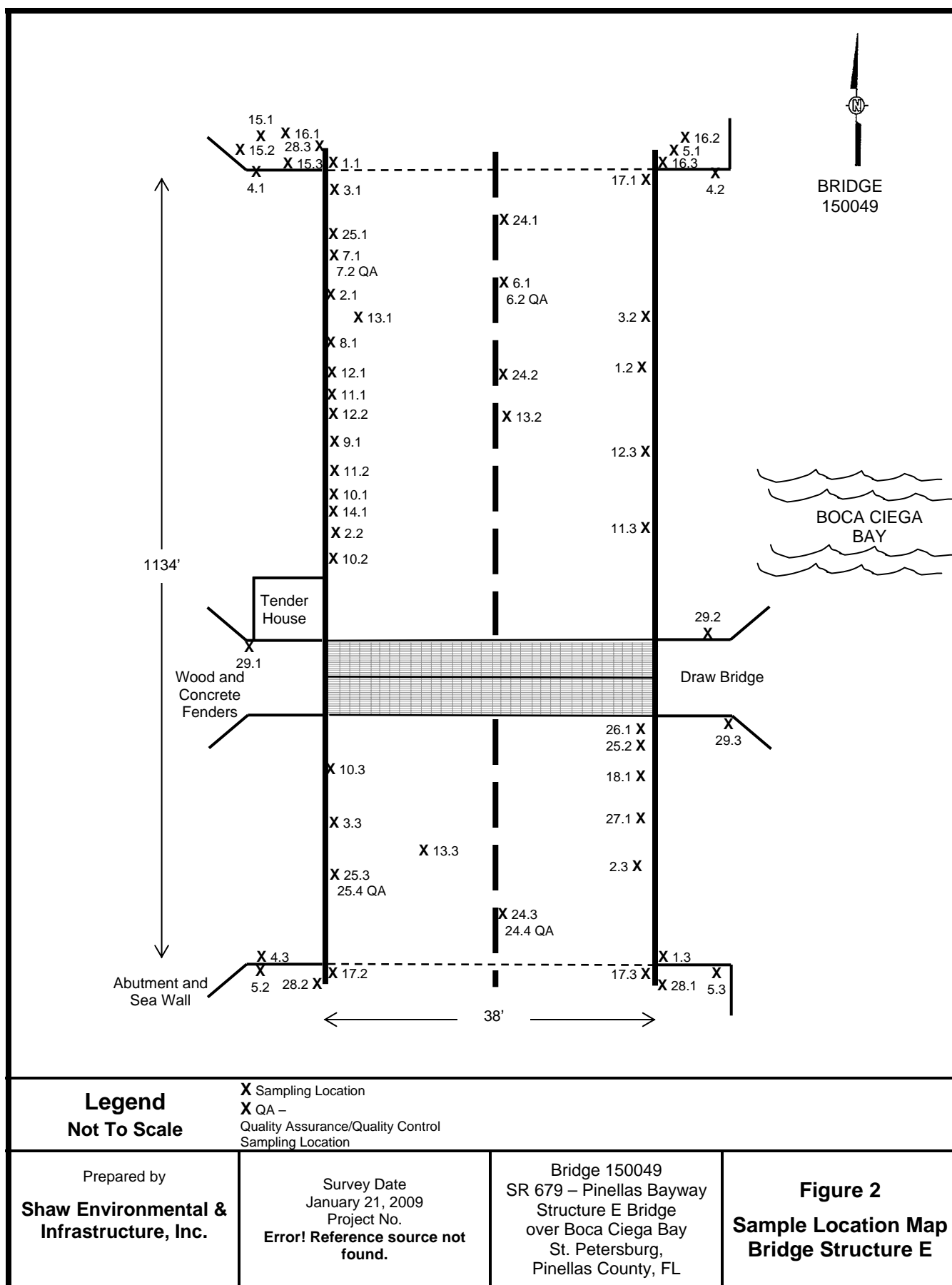
AREA OF  
DETAIL

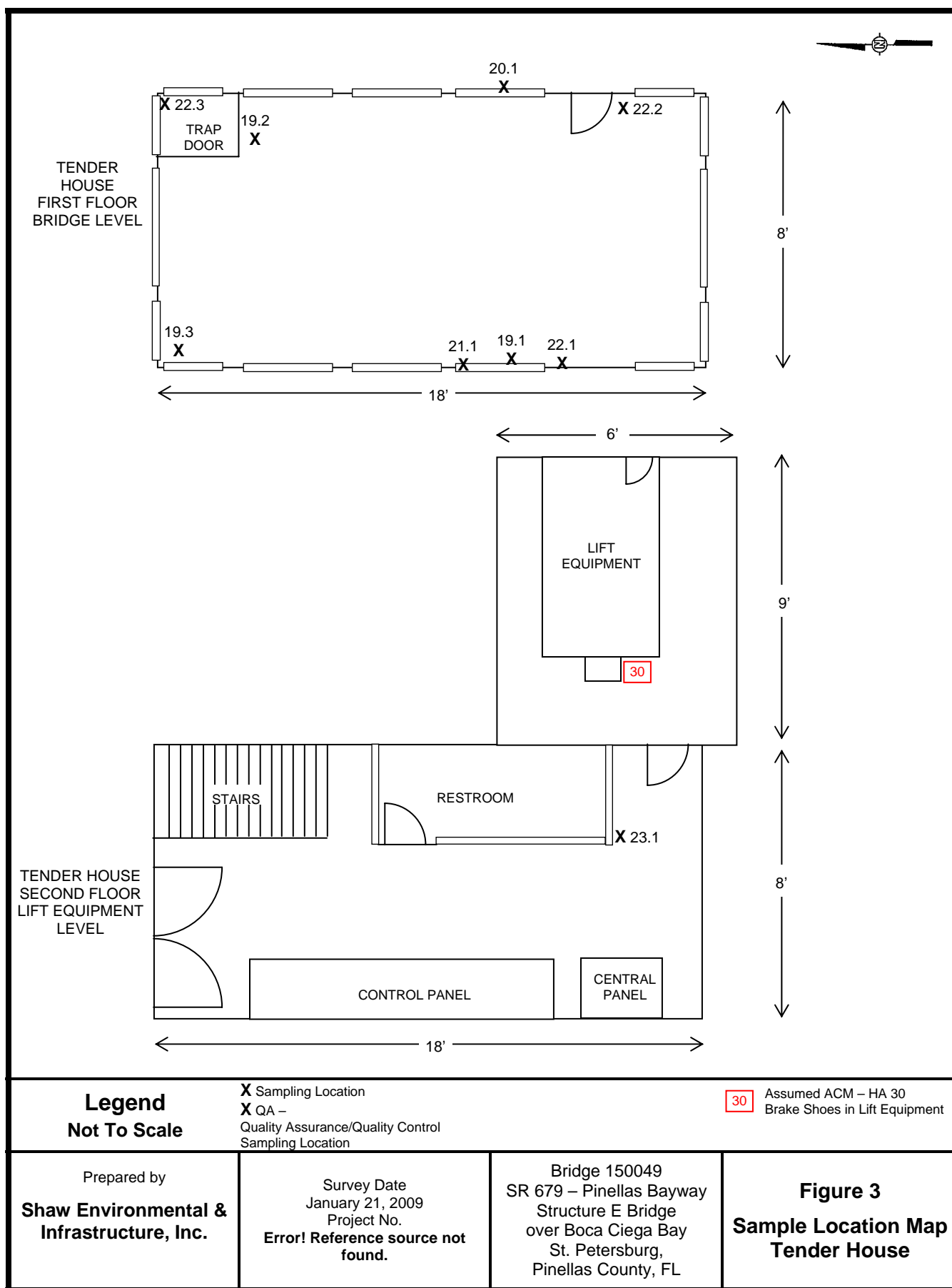
Prepared by  
**Shaw Environmental &  
Infrastructure, Inc.**

Survey Date  
January 21, 2009  
Project No.  
**Error! Reference source not found.**

Bridge 150049  
SR 679 – Pinellas Bayway  
Structure E Bridge  
over Boca Ciega Bay  
St. Petersburg,  
Pinellas County, FL

**Figure 1**  
**Site Location Map**





**SECTION 3**  
**PHOTOGRAPHS**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

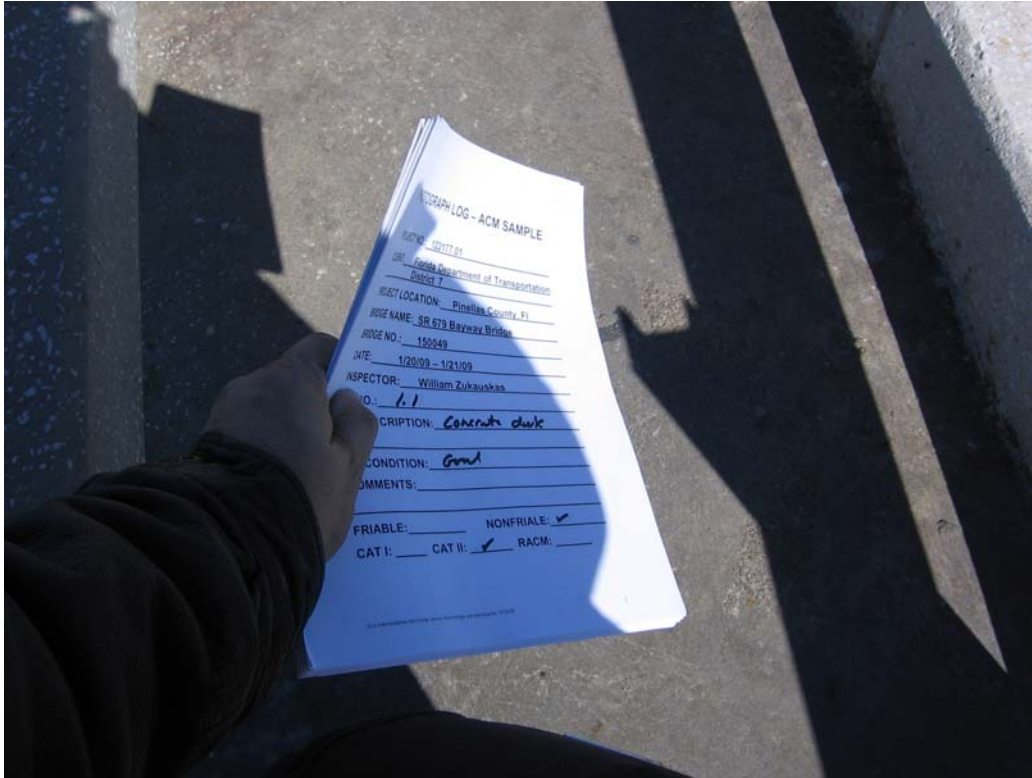


**PHOTO 1 – 01/21/09**  
**BRIDGE 150049 - SR 679 – PINELLAS BAYWAY STRUCTURE E BRIDGE**  
**OVER BOCA CIEGA BAY, ST. PETERSBURG, PINELLAS COUNTY, FL**

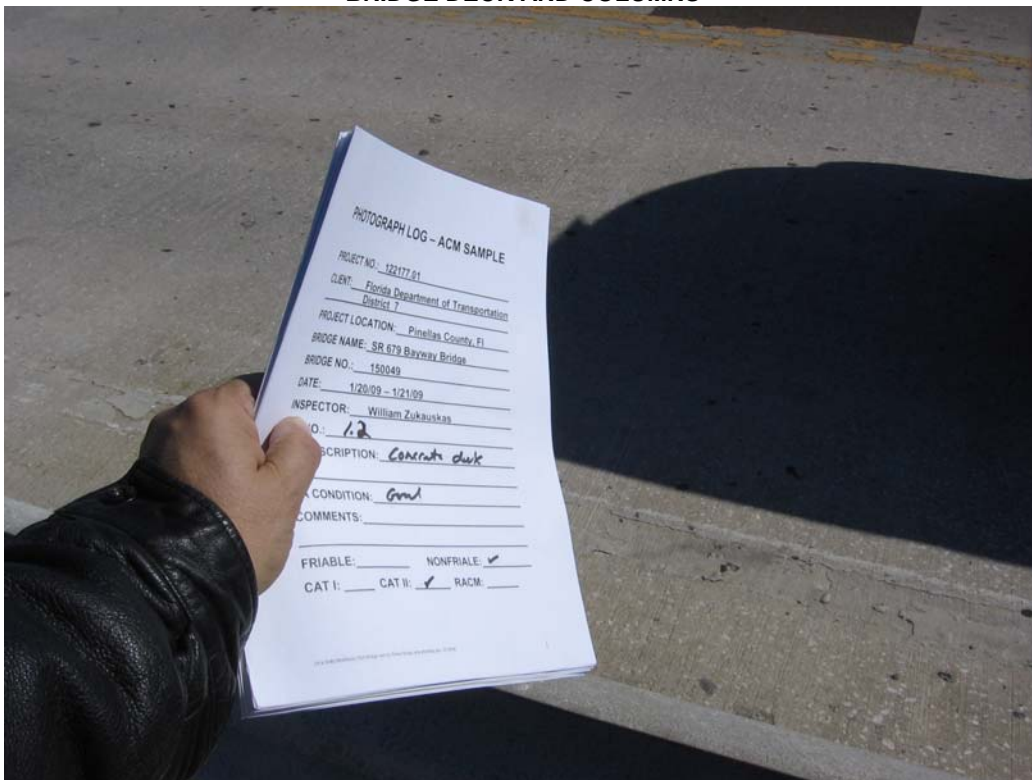


**PHOTO 2 – 01/21/09**  
**BRIDGE 150049 - SR 679 – PINELLAS BAYWAY STRUCTURE E BRIDGE**  
**TENDER HOUSE**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



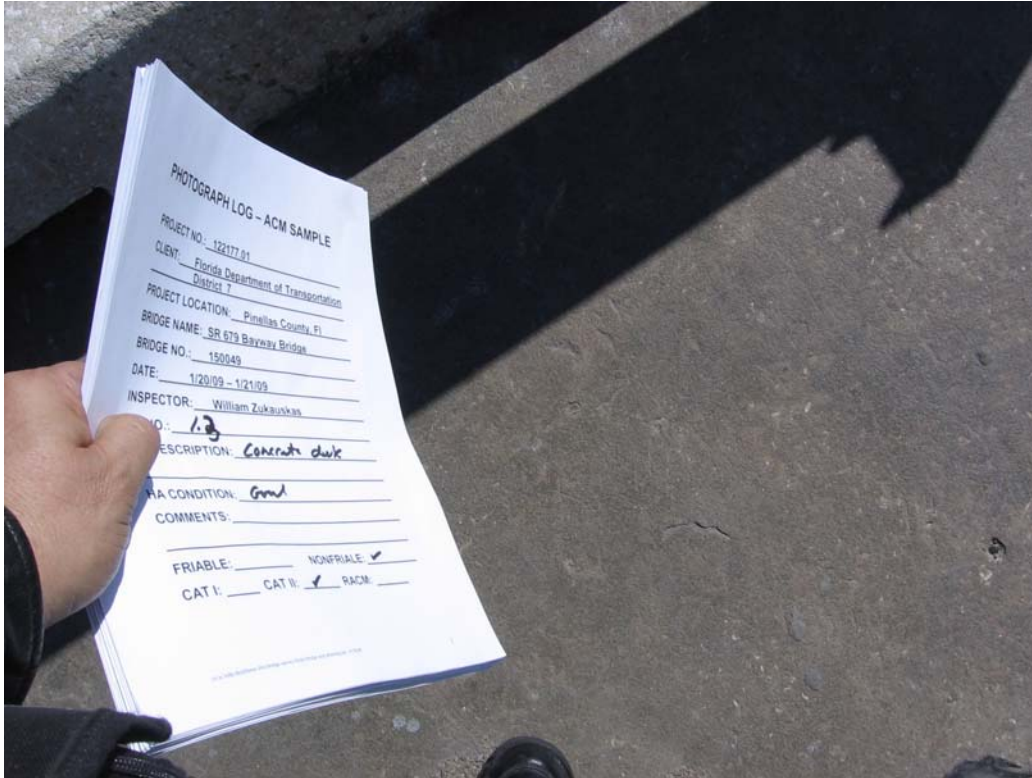
**PHOTO 3 – 01/21/09 – SAMPLE 1.1 – HA 1**  
**CONCRETE**  
**BRIDGE DECK AND COLUMNS**



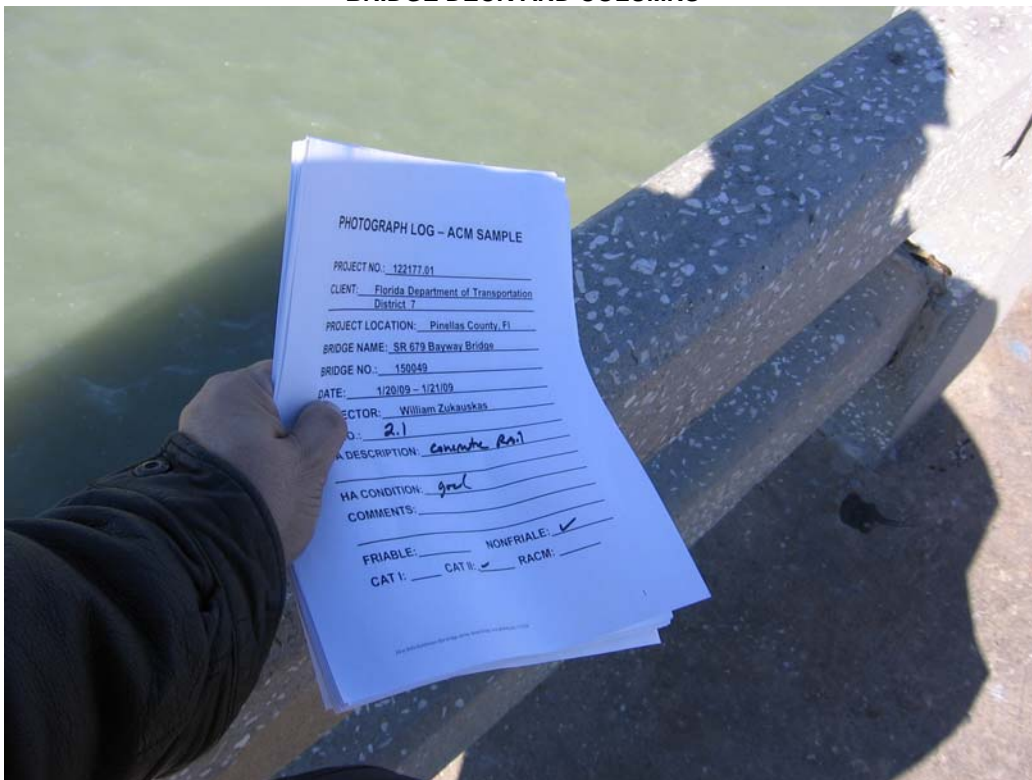
**PHOTO 4 – 01/21/09 – SAMPLE 1.2 – HA 1**  
**CONCRETE**  
**BRIDGE DECK AND COLUMNS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

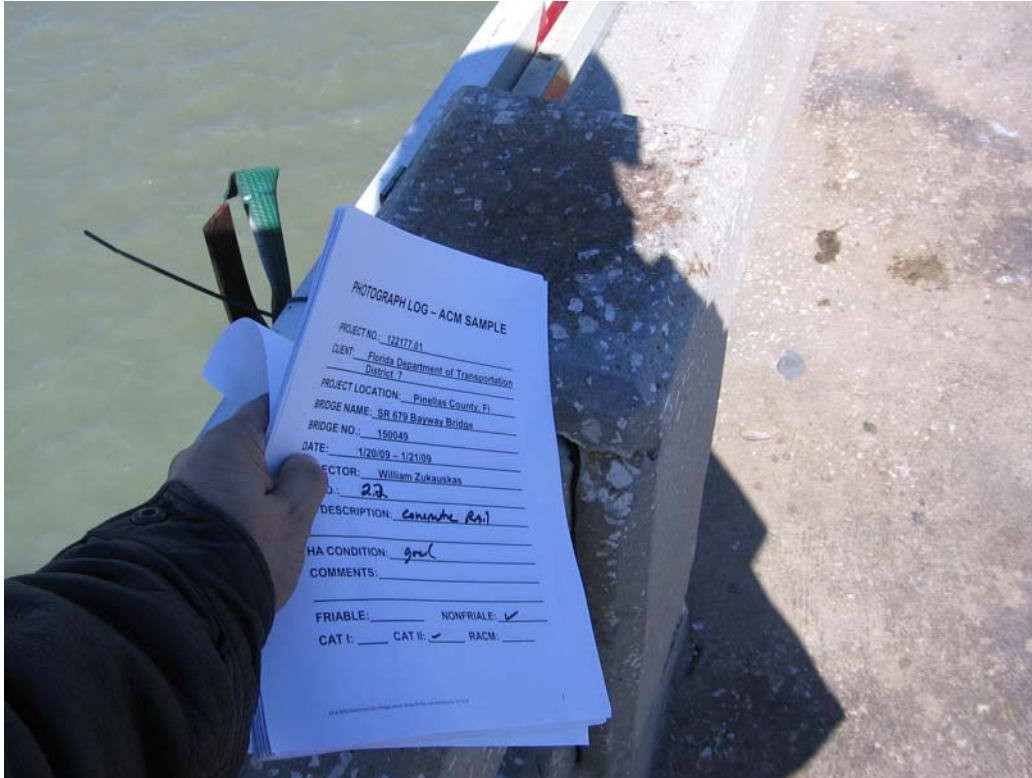


**PHOTO 5 - 01/21/09 - SAMPLE 1.3 - HA 1**  
**CONCRETE**  
**BRIDGE DECK AND COLUMNS**

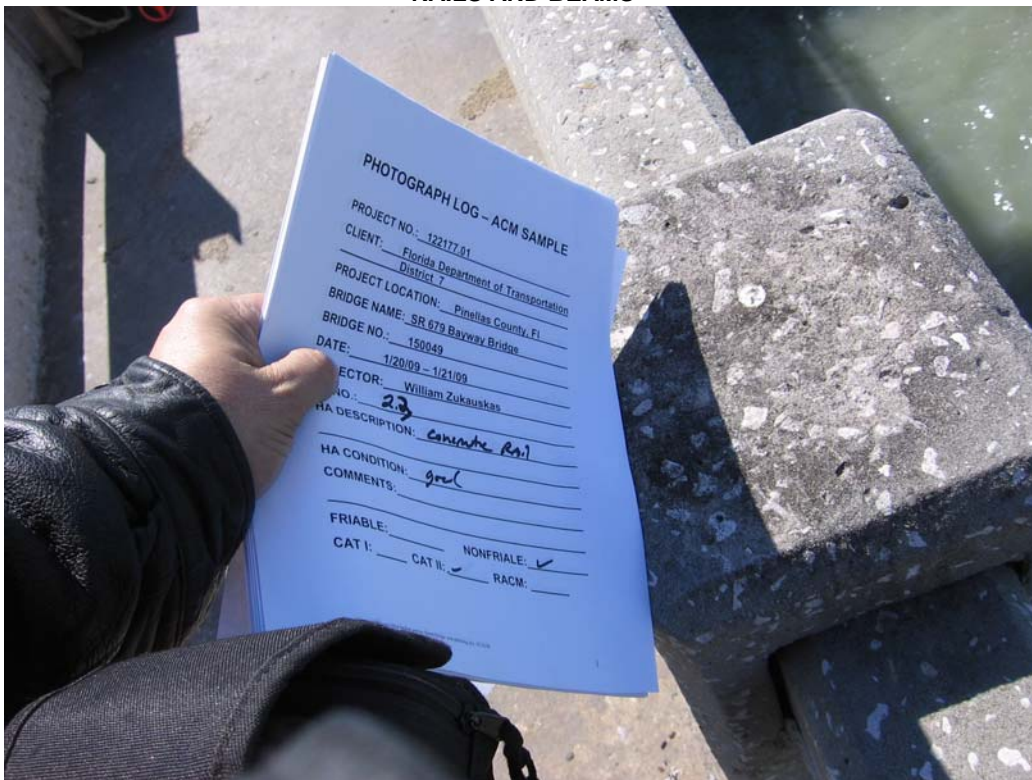


**PHOTO 6 - 01/21/09 - SAMPLE 2.1 - HA 2**  
**CONCRETE**  
**RAILS AND BEAMS**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



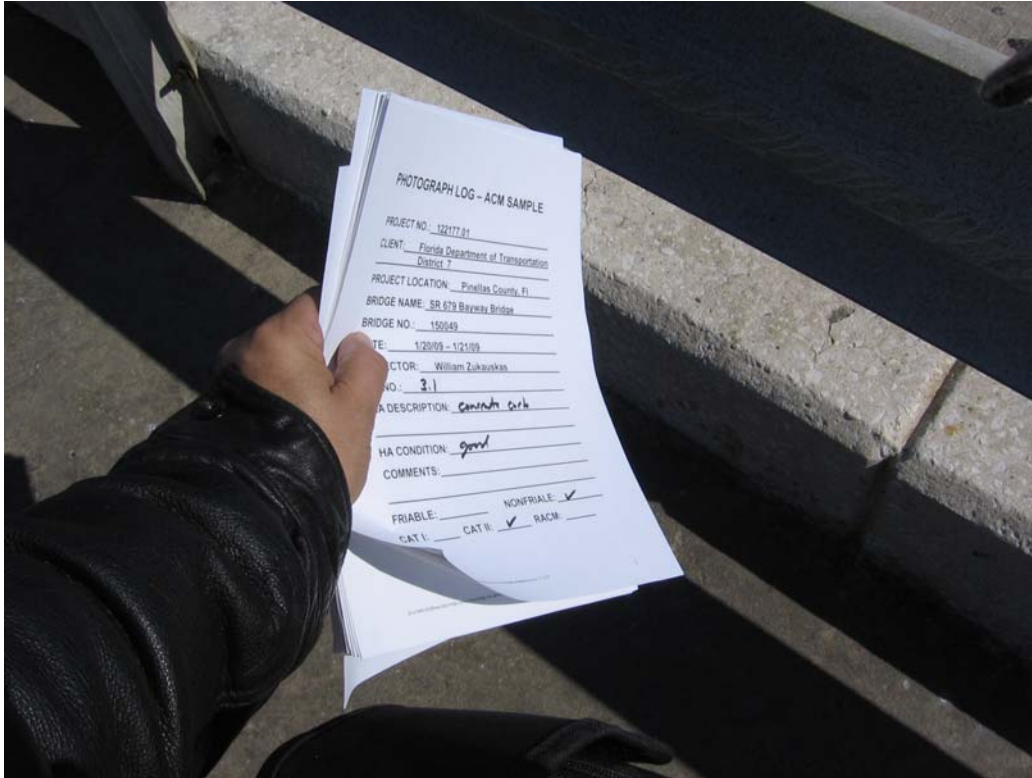
**PHOTO 7 - 01/21/09 - SAMPLE 2.2 - HA 2**  
**CONCRETE**  
**RAILS AND BEAMS**



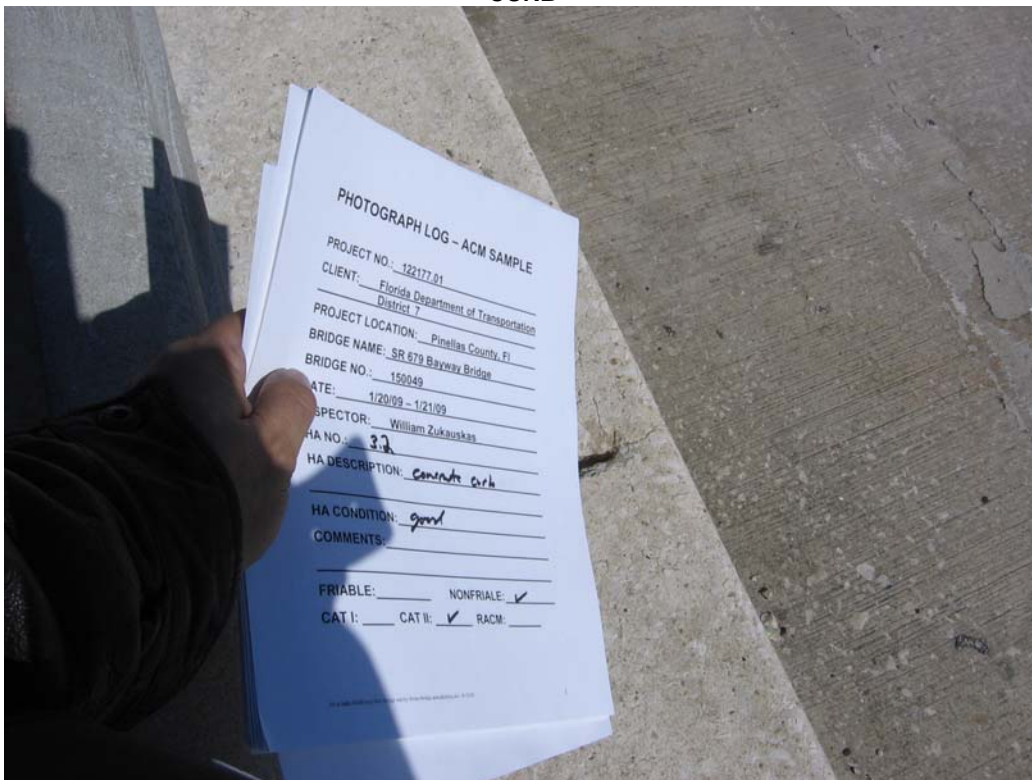
**PHOTO 8 - 01/21/09 - SAMPLE 2.3 - HA 2**  
**CONCRETE**  
**RAILS AND BEAMS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

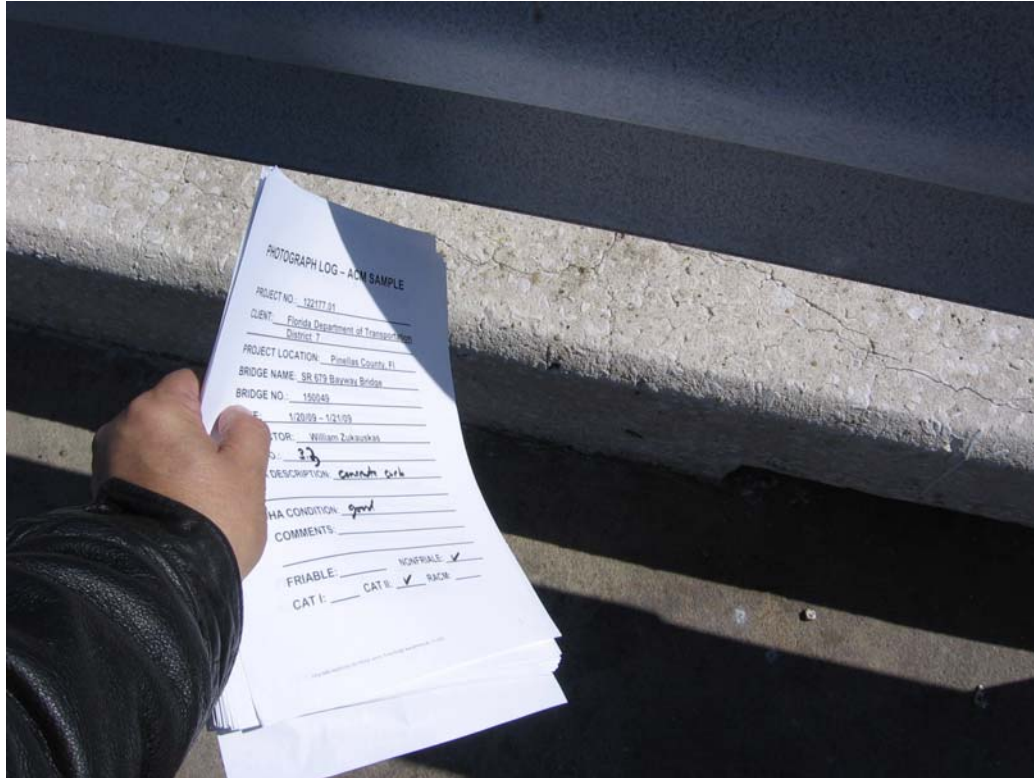


**PHOTO 9 – 01/21/09 – SAMPLE 3.1 – HA 3**  
**CONCRETE**  
**CURB**

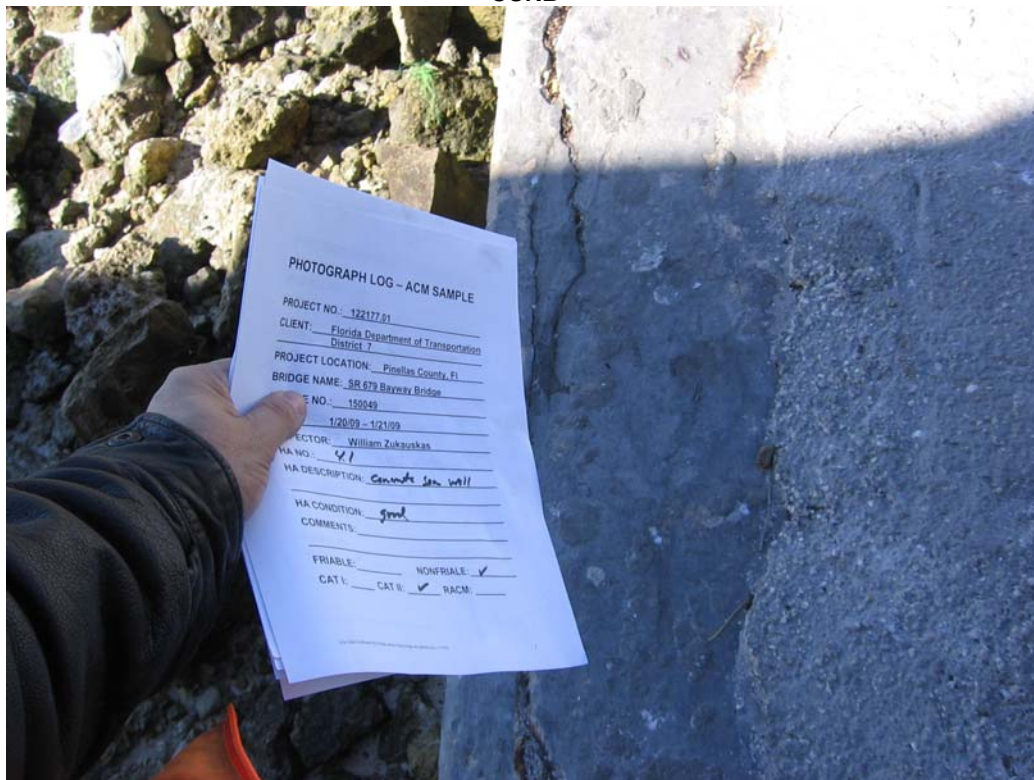


**PHOTO 10 – 01/21/09 – SAMPLE 3.2 – HA 3**  
**CONCRETE**  
**CURB**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



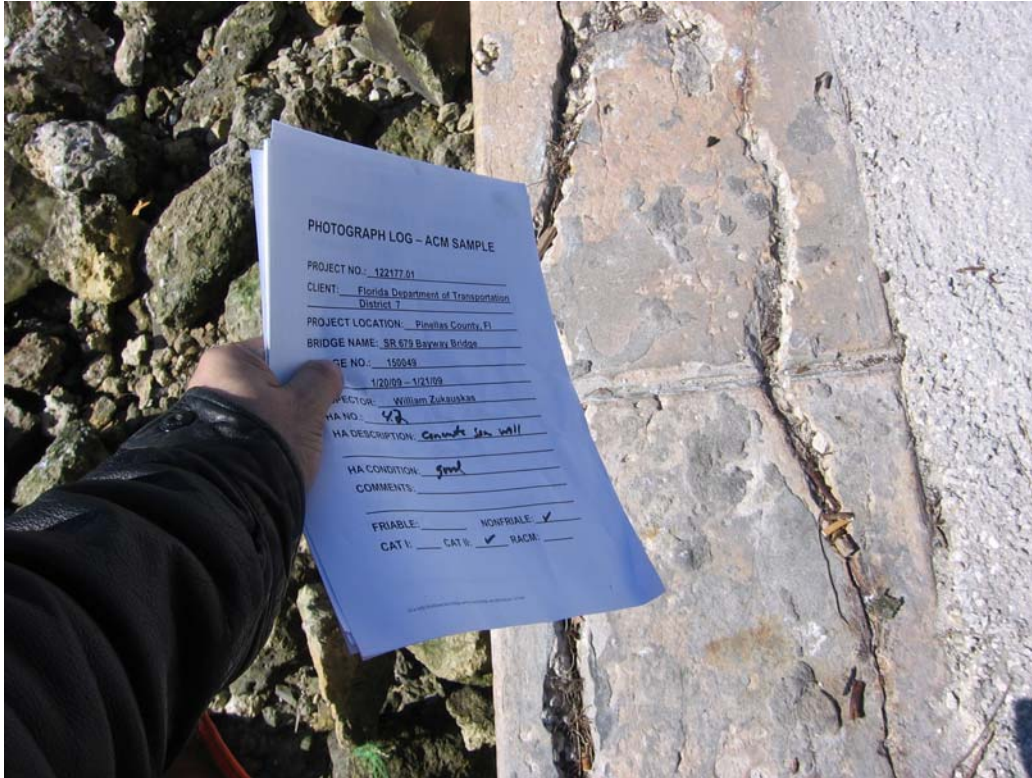
**PHOTO 11 – 01/21/09 – SAMPLE 3.3 – HA 3**  
**CONCRETE**  
**CURB**



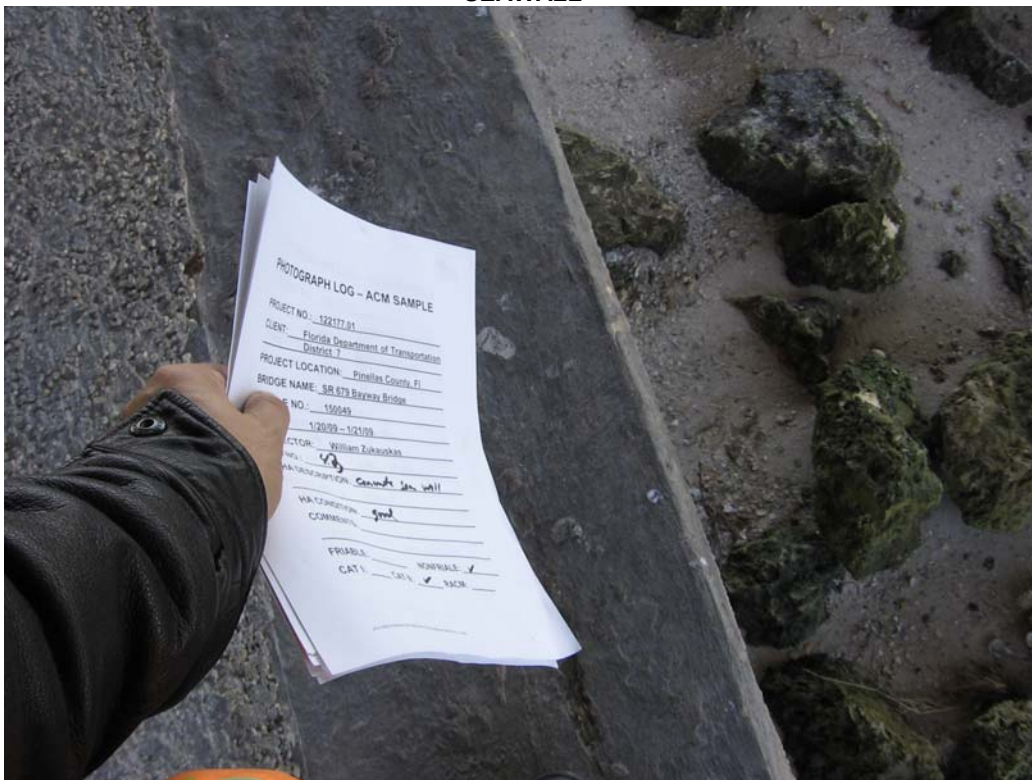
**PHOTO 12 – 01/21/09 – SAMPLE 4.1 – HA 4**  
**CONCRETE**  
**SEAWALL**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

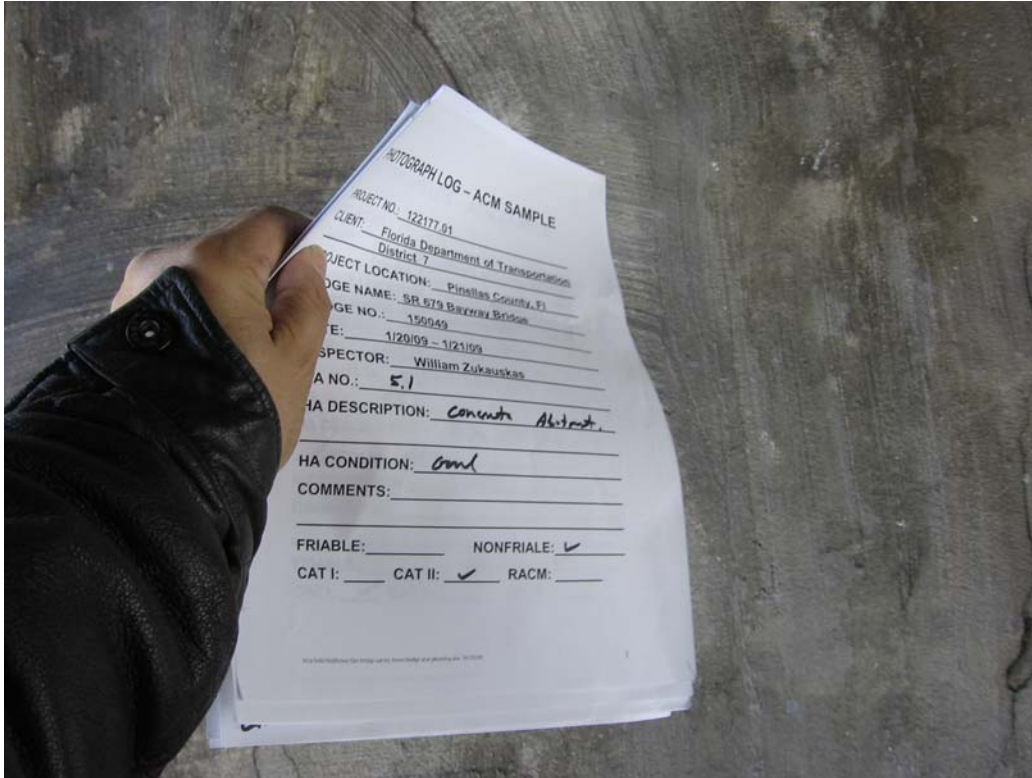


**PHOTO 13 – 01/21/09 – SAMPLE 4.2 – HA 4**  
**CONCRETE**  
**SEAWALL**

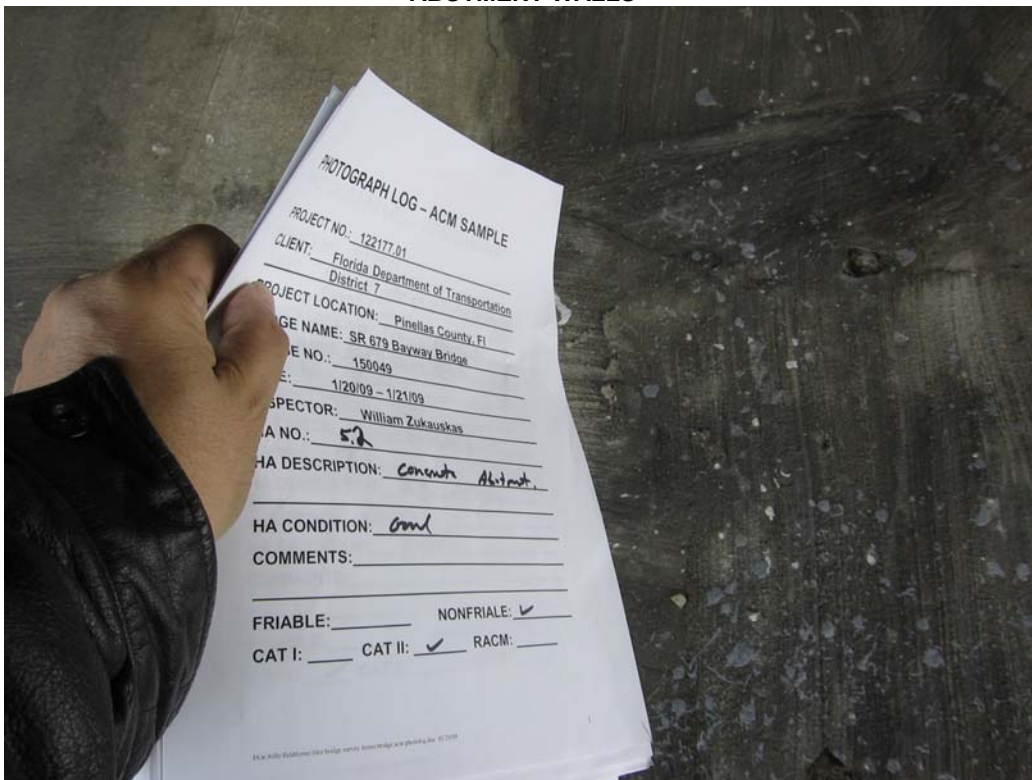


**PHOTO 14 – 01/21/09 – SAMPLE 4.3 – HA 4**  
**CONCRETE**  
**SEAWALL**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



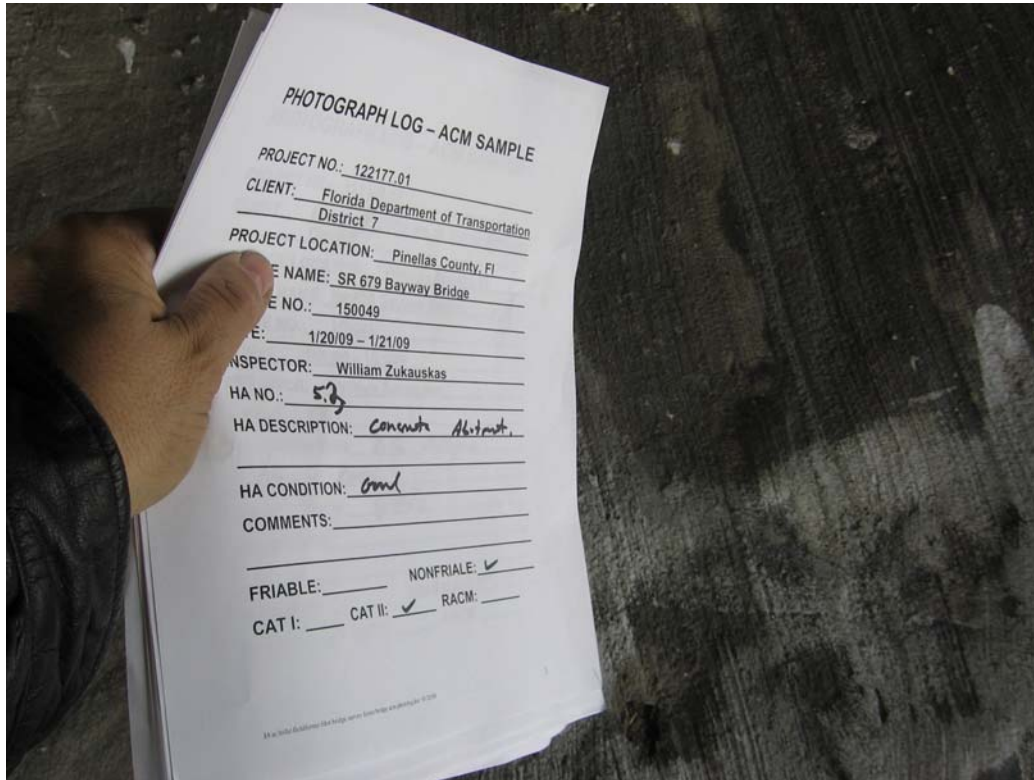
**PHOTO 15 – 01/21/09 – SAMPLE 5.1 – HA 5**  
**CONCRETE**  
**ABUTMENT WALLS**



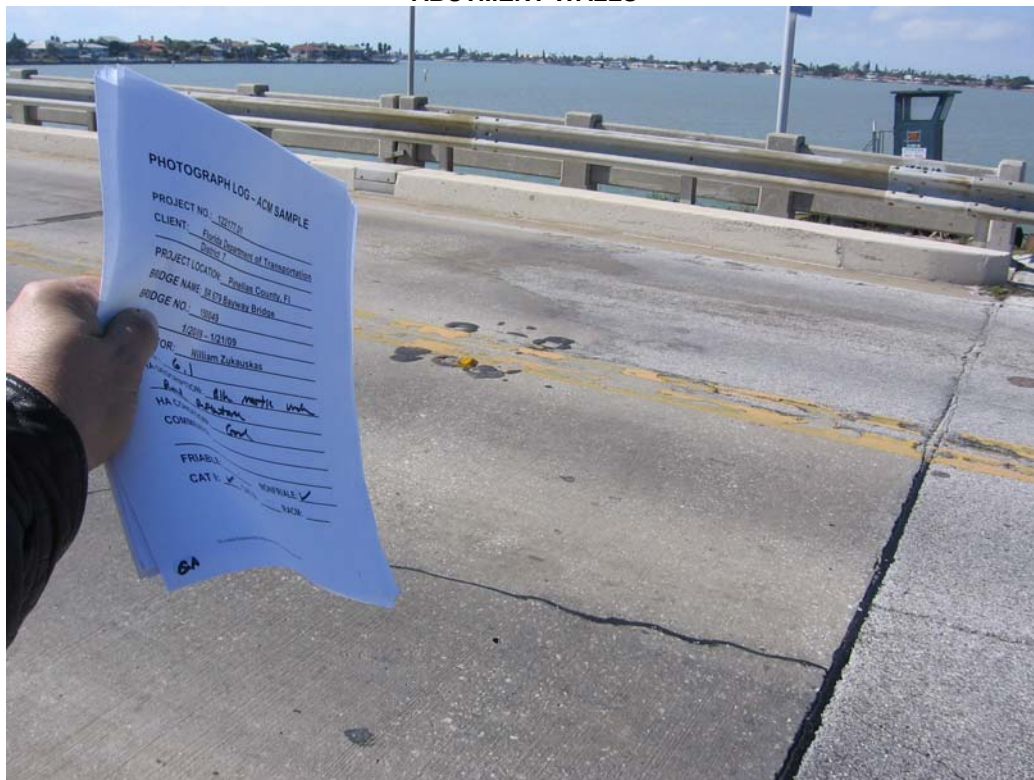
**PHOTO 16 – 01/21/09 – SAMPLE 5.2 – HA 5**  
**CONCRETE**  
**ABUTMENT WALLS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 17 - 01/21/09 - SAMPLE 5.3 - HA 5**  
**CONCRETE**  
**ABUTMENT WALLS**



**PHOTO 18 - 01/21/09 - SAMPLE 6.1 - HA 6**  
**BLACK MASTIC**  
**UNDER ROAD REFLECTORS**

# BRIDGE 150049 ASBESTOS SURVEY PHOTO LOG

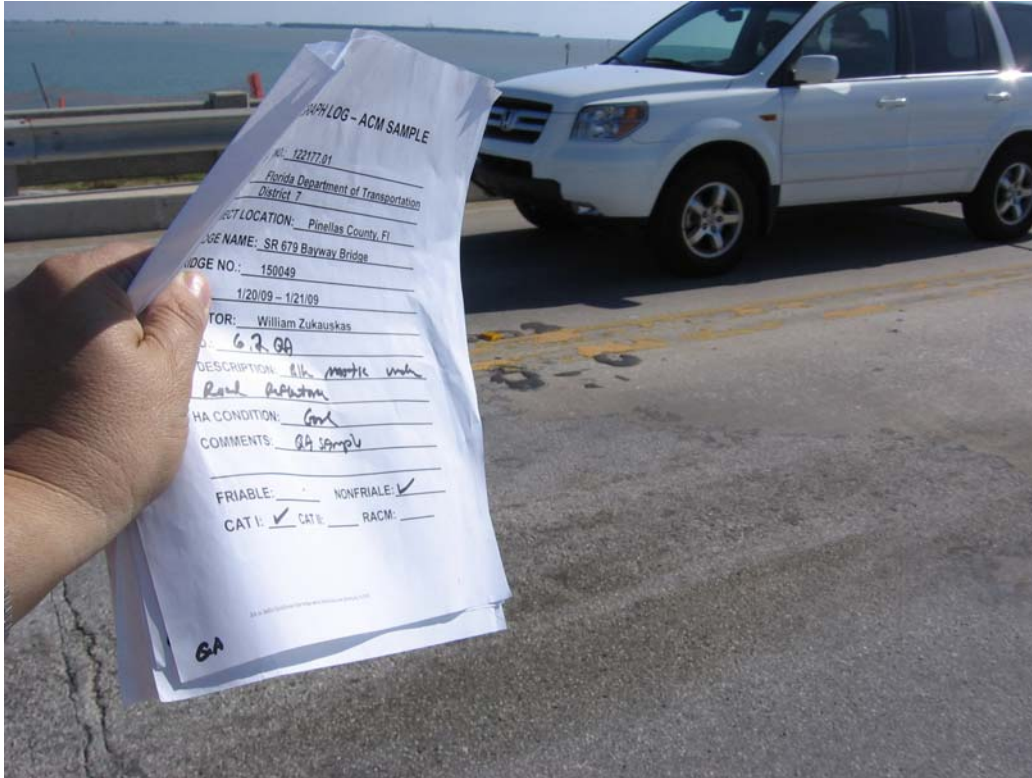


PHOTO 19 - 01/21/09 - SAMPLE 6.2 QA/QC - HA 6  
BLACK MASTIC  
UNDER ROAD REFLECTORS

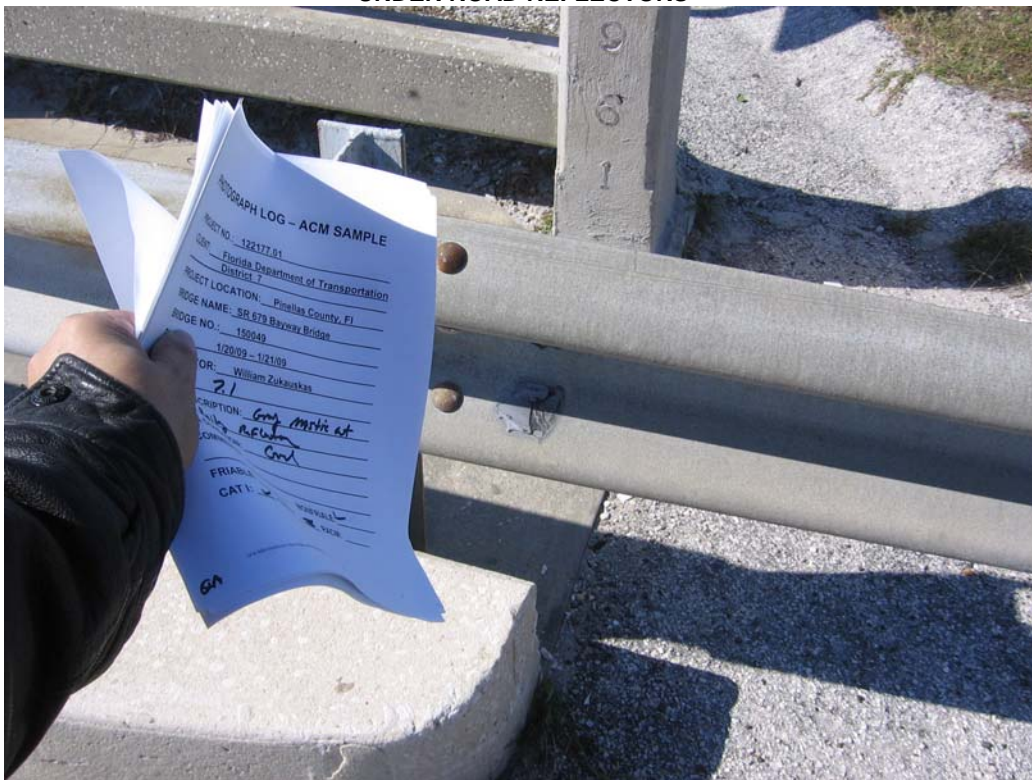


PHOTO 20 - 01/21/09 - SAMPLE 7.1 - HA 7  
GRAY MASTIC  
UNDER RAILING REFLECTORS



# BRIDGE 150049 ASBESTOS SURVEY PHOTO LOG

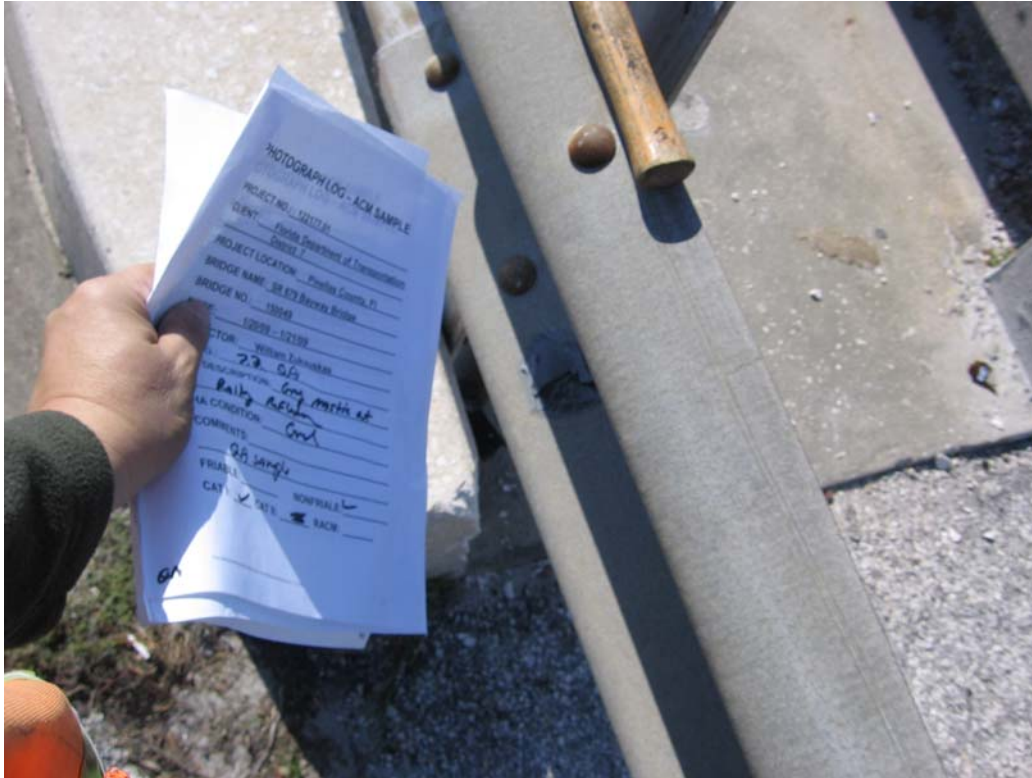


PHOTO 21 – 01/21/09 – SAMPLE 7.2 QA/QC – HA 7  
GRAY MASTIC  
UNDER RAILING REFLECTORS

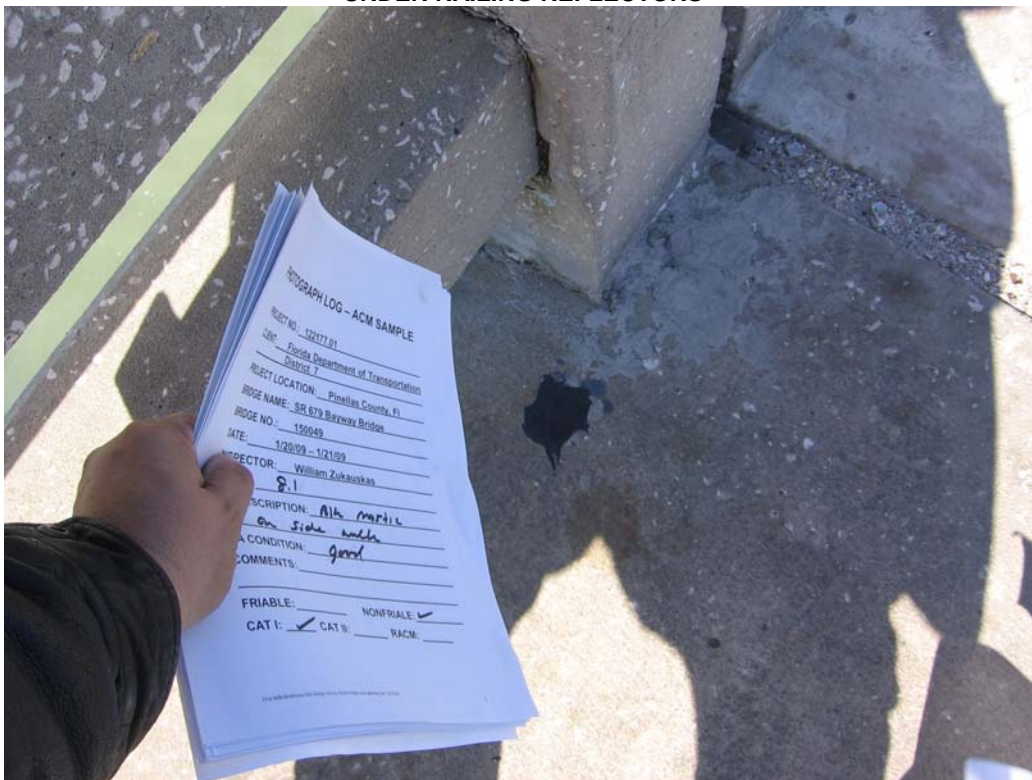
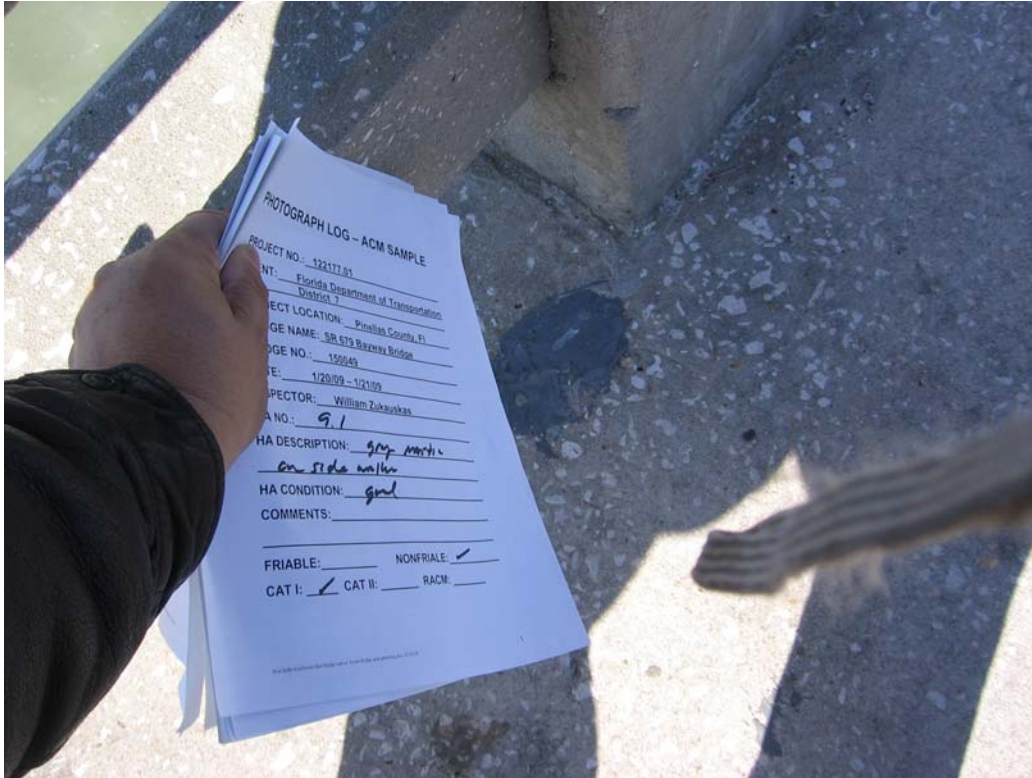
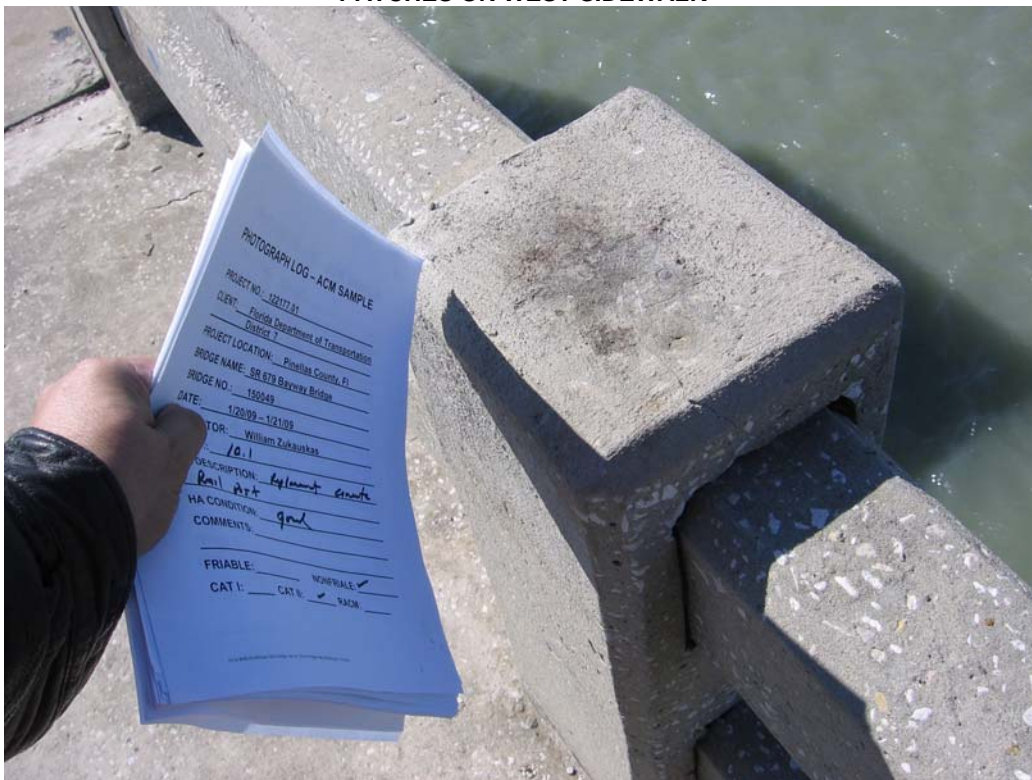


PHOTO 22 – 01/21/09 – SAMPLE 8.1 – HA 8  
BLACK MASTIC  
PATCHES ON WEST SIDEWALK

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



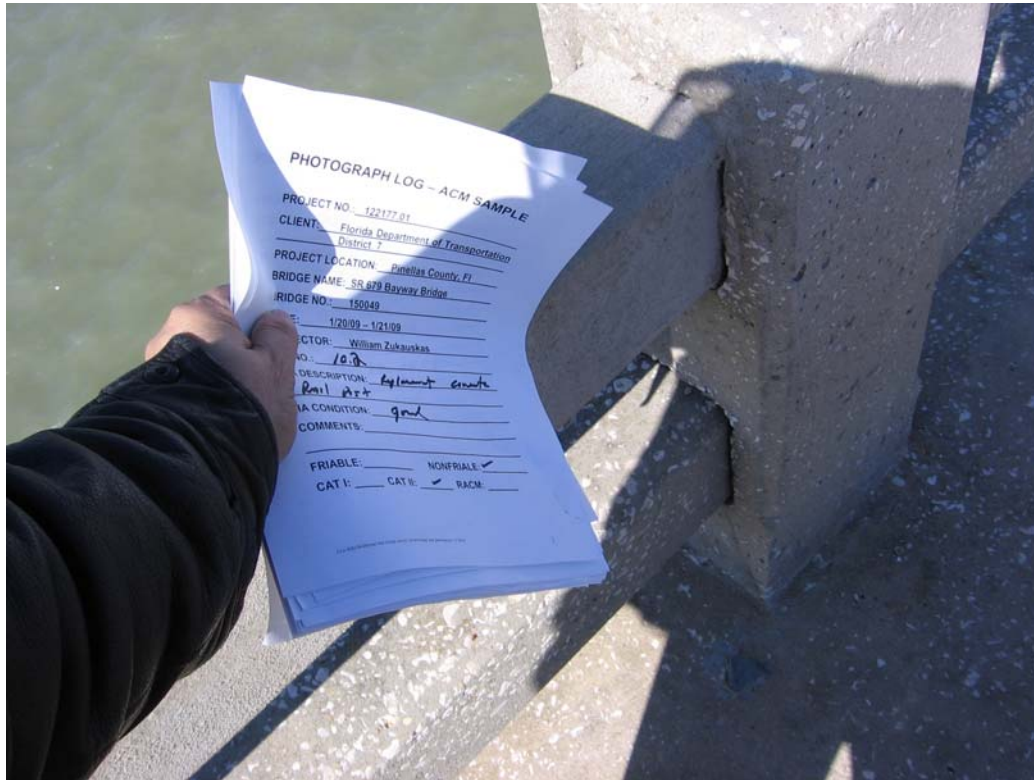
**PHOTO 23 – 01/21/09 – SAMPLE 9.1 – HA 9**  
**GRAY MASTIC**  
**PATCHES ON WEST SIDEWALK**



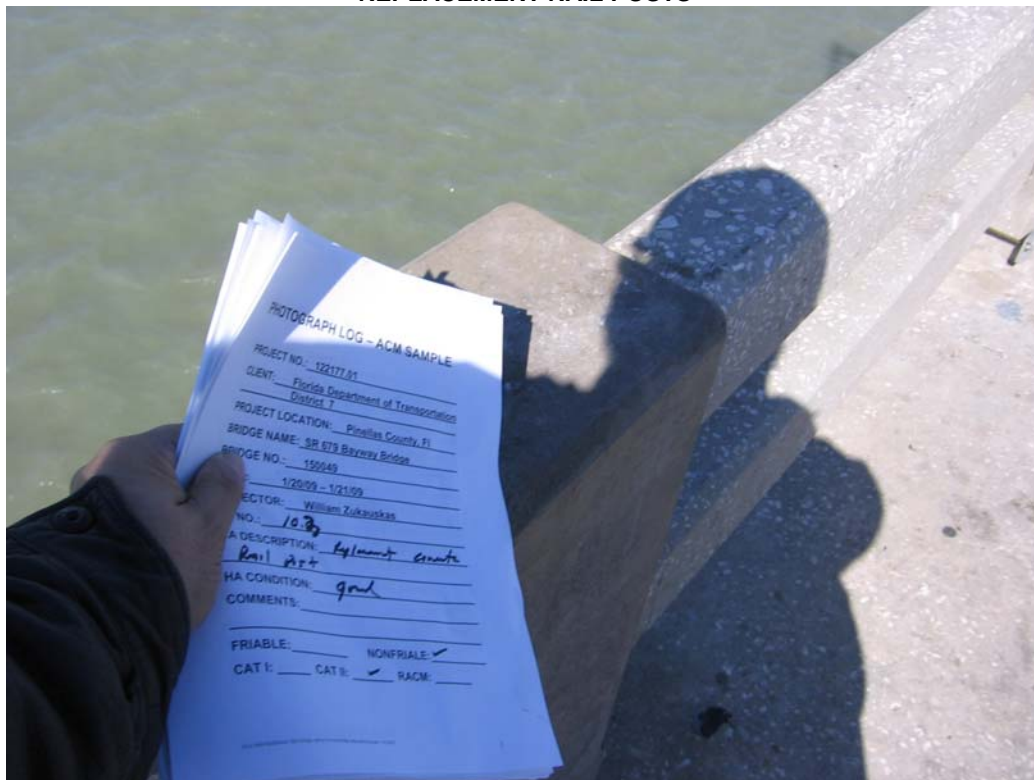
**PHOTO 24 – 01/21/09 – SAMPLE 10.1 – HA 10**  
**CONCRETE**  
**REPLACEMENT RAIL POSTS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

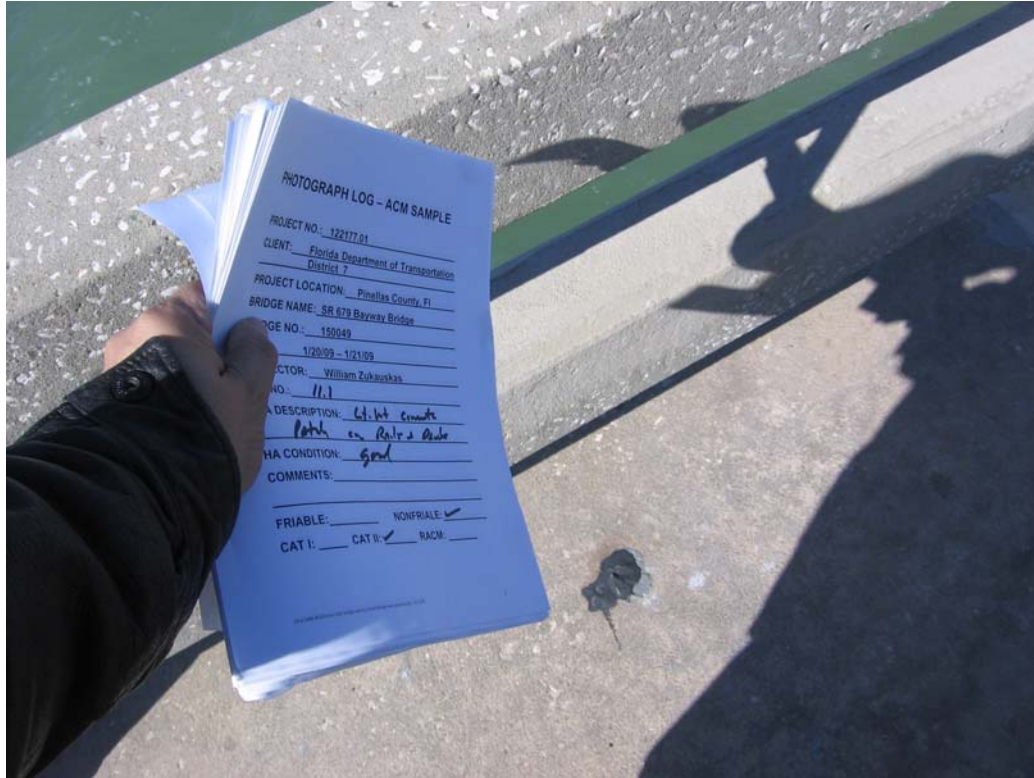


**PHOTO 25 – 01/21/09 – SAMPLE 10.2 – HA 10**  
**CONCRETE**  
**REPLACEMENT RAIL POSTS**

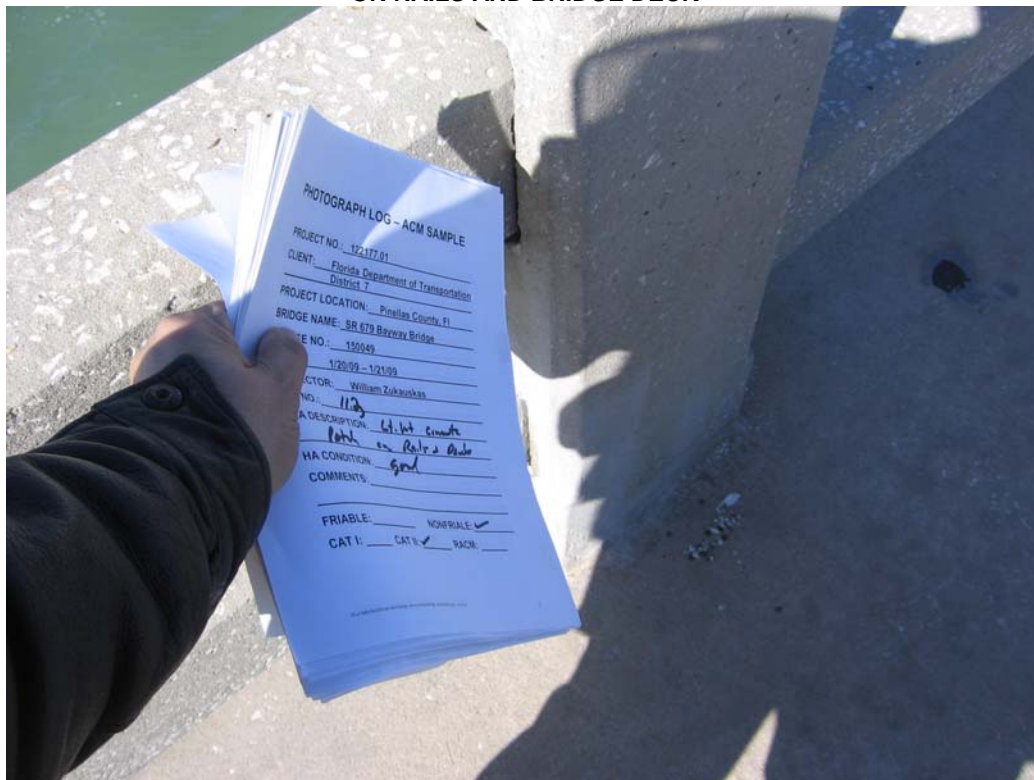


**PHOTO 26 – 01/21/09 – SAMPLE 10.3 – HA 10**  
**CONCRETE**  
**REPLACEMENT RAIL POSTS**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 27 – 01/21/09 – SAMPLE 11.1 – HA 11**  
**LIGHTWEIGHT CONCRETE PATCHING**  
**ON RAILS AND BRIDGE DECK**



**PHOTO 28 – 01/21/09 – SAMPLE 11.2 – HA 11**  
**LIGHTWEIGHT CONCRETE PATCHING**  
**ON RAILS AND BRIDGE DECK**



# BRIDGE 150049

## ASBESTOS SURVEY PHOTO LOG

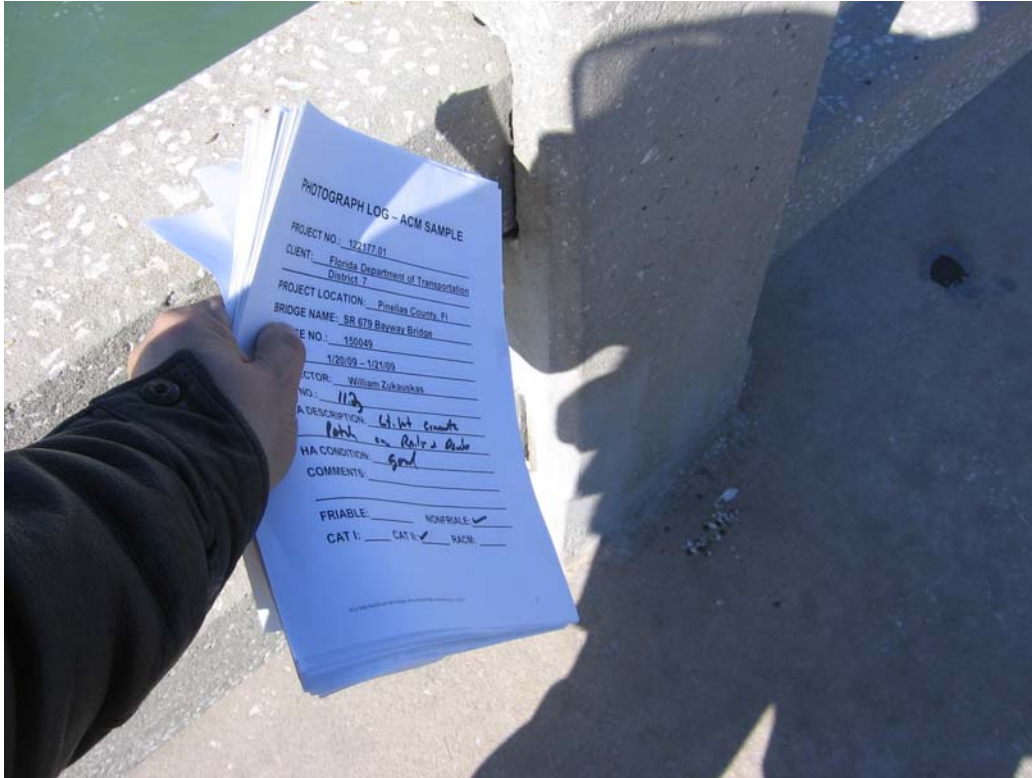


PHOTO 29 – 01/21/09 – SAMPLE 11.3 – HA 11  
LIGHTWEIGHT CONCRETE PATCHING  
ON RAILS AND BRIDGE DECK

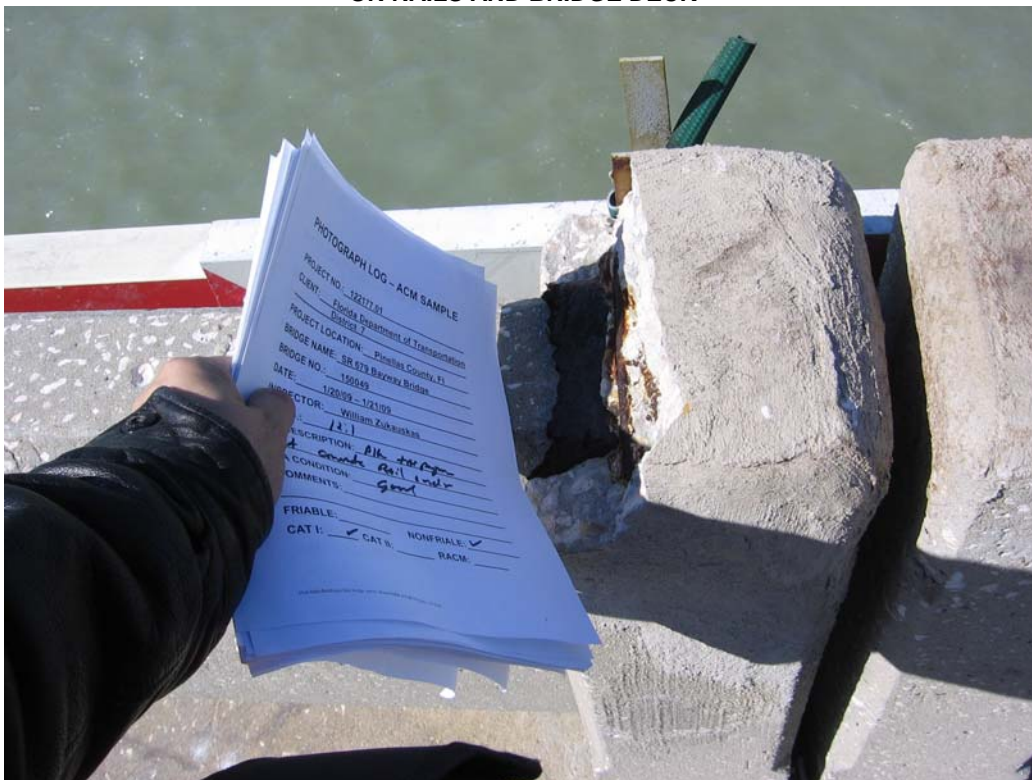
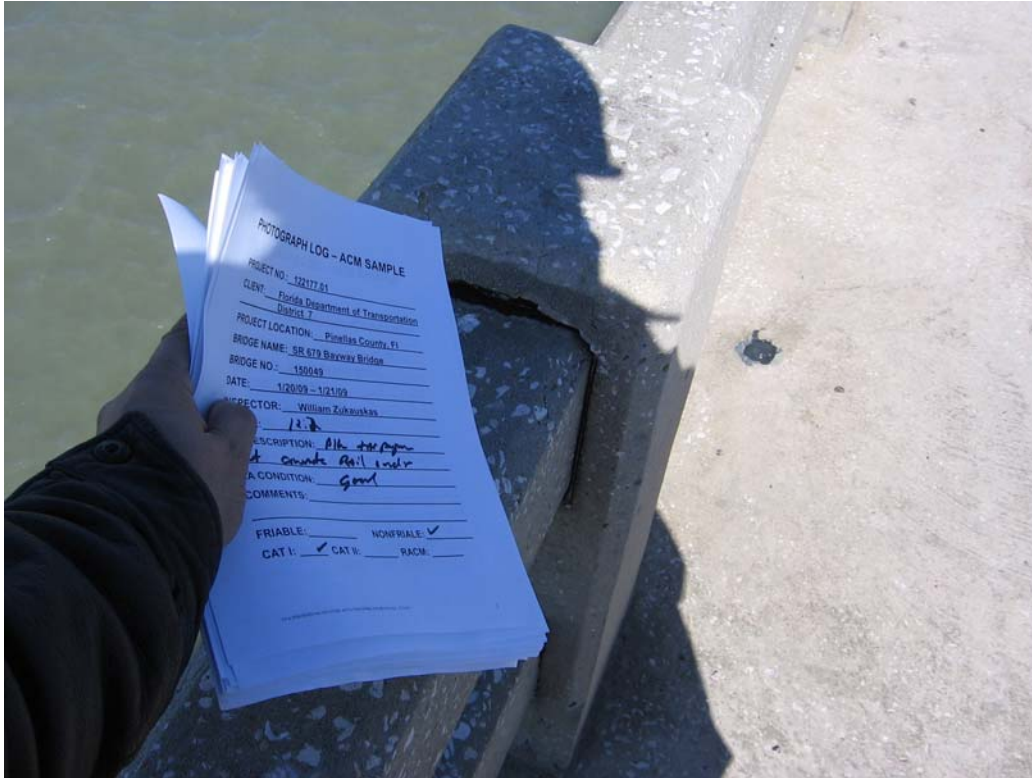
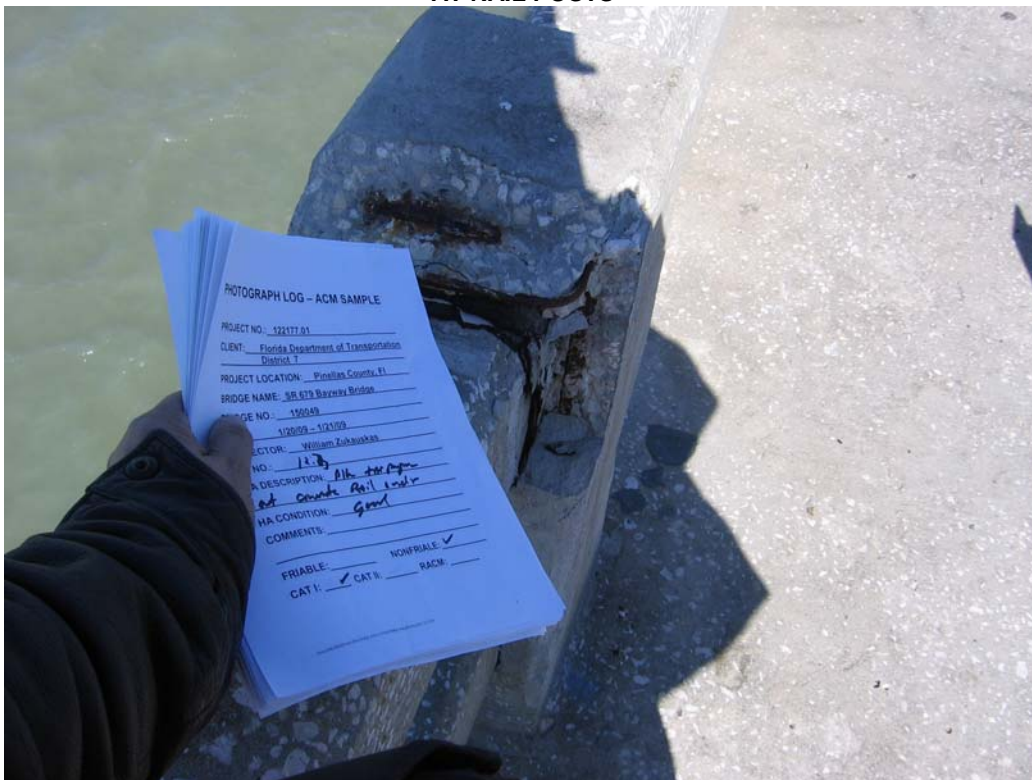


PHOTO 30 – 01/21/09 – SAMPLE 12.1 – HA 12  
BLACK TARPAPER  
AT RAIL POSTS

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 31 – 01/21/09 – SAMPLE 12.2 – HA 12**  
**BLACK TARPAPER**  
**AT RAIL POSTS**



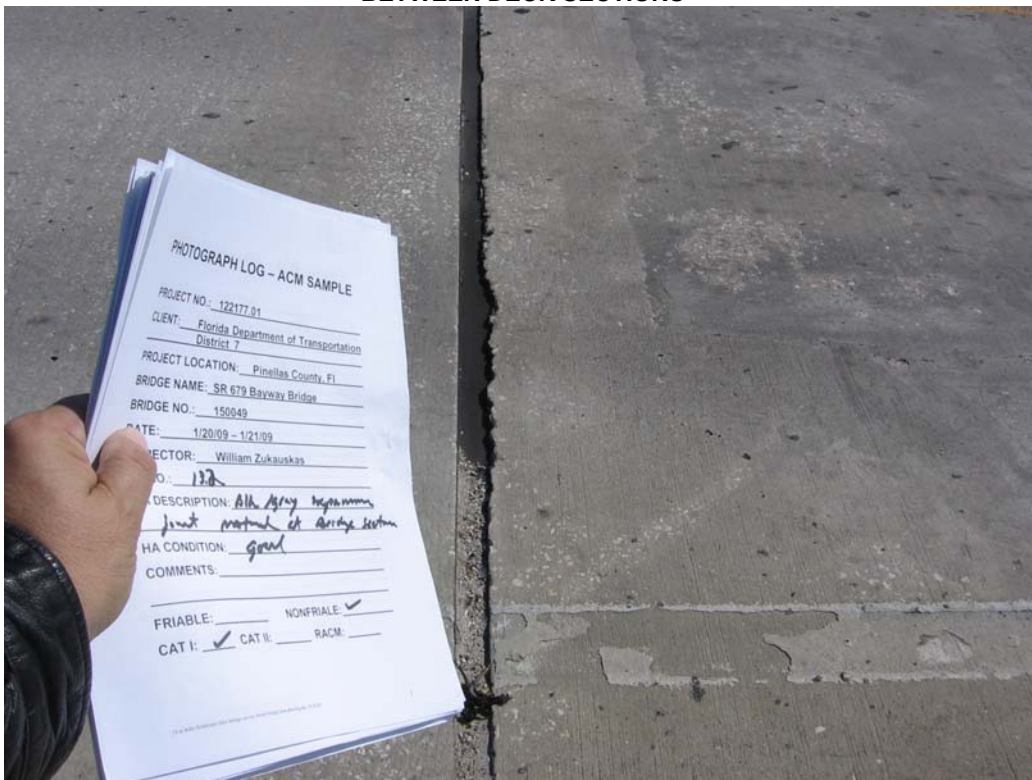
**PHOTO 32 – 01/21/09 – SAMPLE 12.3 – HA 12**  
**BLACK TARPAPER**  
**AT RAIL POSTS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 33 – 01/21/09 – SAMPLE 13.1 – HA 13**  
**BLACK AND GRAY EXPANSION JOINT MATERIAL**  
**BETWEEN DECK SECTIONS**

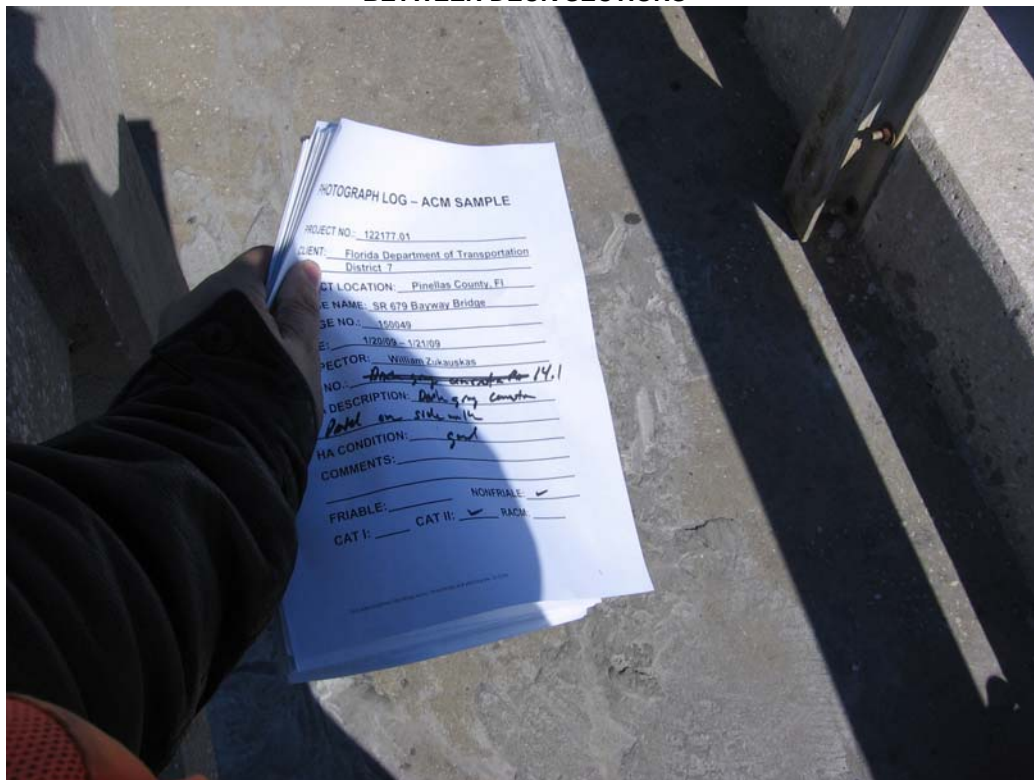


**PHOTO 34 – 01/21/09 – SAMPLE 13.2 – HA 13**  
**BLACK AND GRAY EXPANSION JOINT MATERIAL**  
**BETWEEN DECK SECTIONS**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 35 - 01/21/09 - SAMPLE 13.3 - HA 13**  
**BLACK AND GRAY EXPANSION JOINT MATERIAL**  
**BETWEEN DECK SECTIONS**



**PHOTO 36 - 01/21/09 - SAMPLE 14.1 - HA 14**  
**DARK GRAY CONCRETE PATCH**  
**ON WEST SIDEWALK**



# BRIDGE 150049

## ASBESTOS SURVEY PHOTO LOG

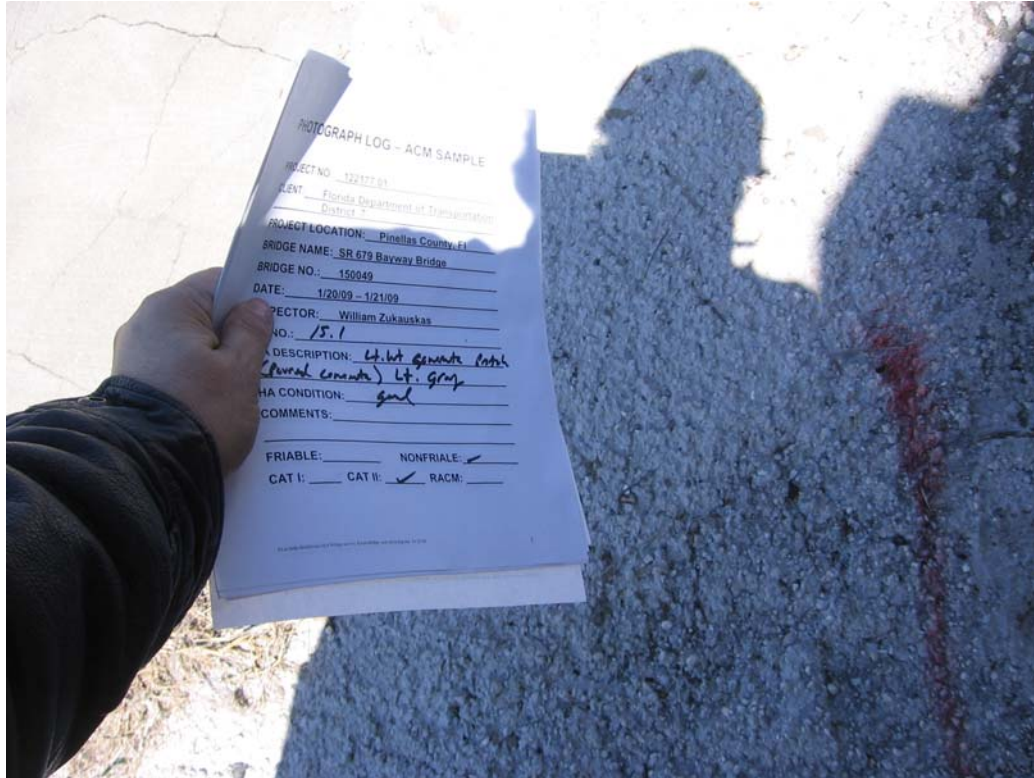


PHOTO 37 - 01/21/09 - SAMPLE 15.1 - HA 15  
LIGHT GRAY CONCRETE  
POURED ON ABUTMENT WALL NORTH END

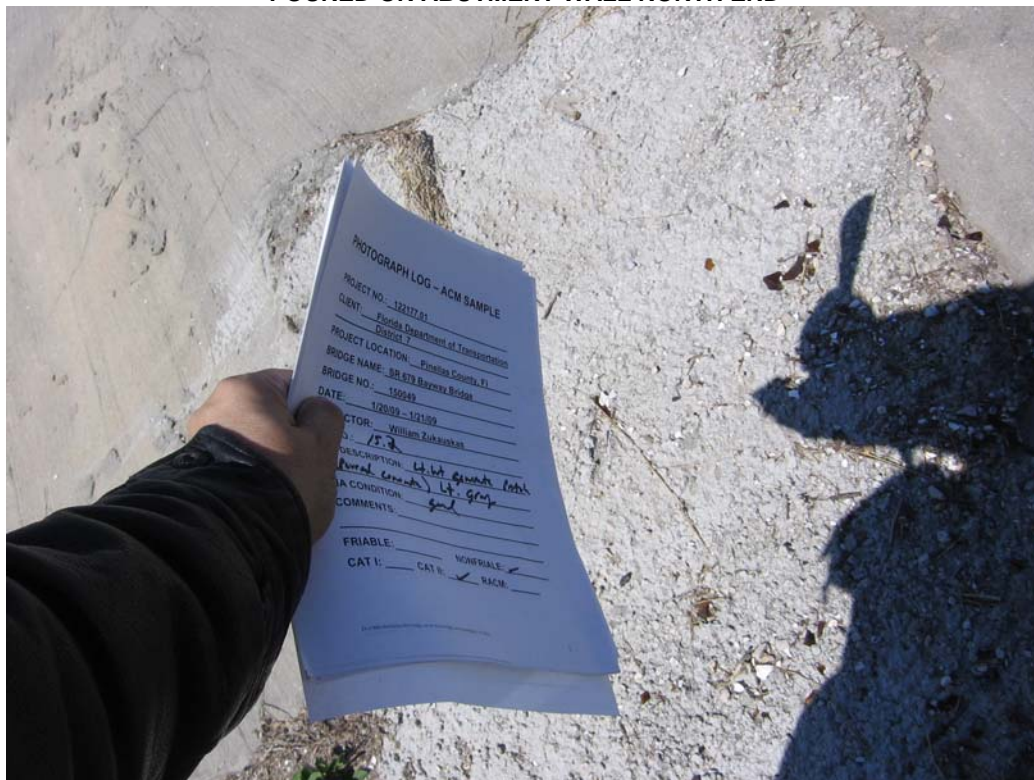
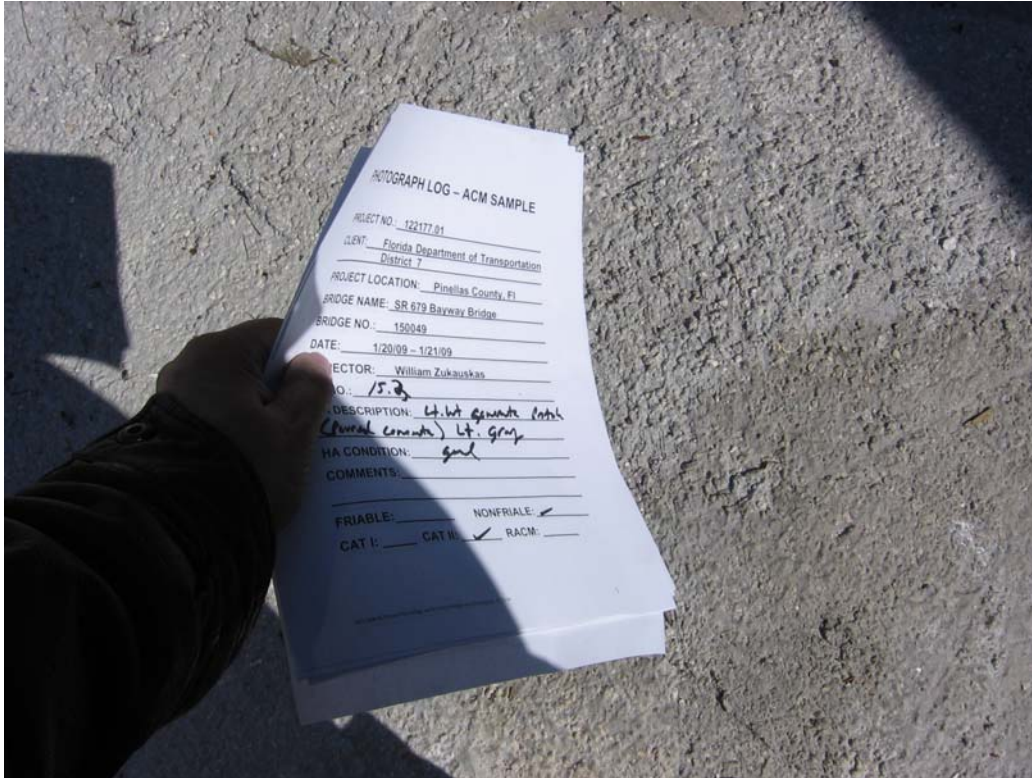
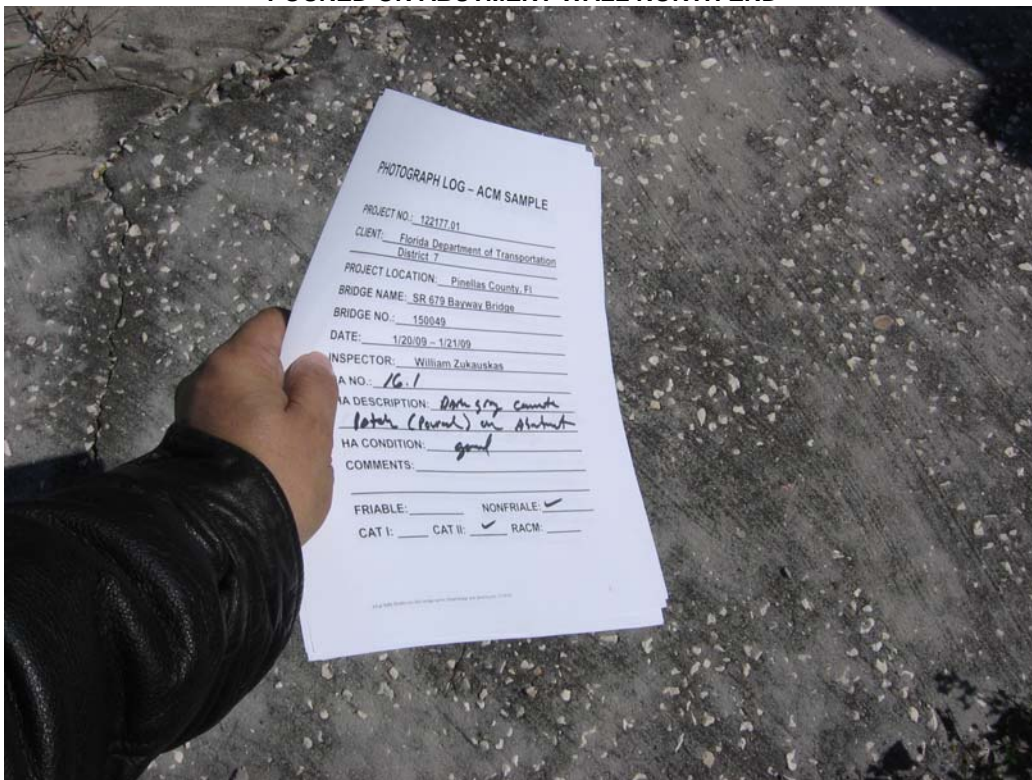


PHOTO 38 - 01/21/09 - SAMPLE 15.2 - HA 15  
LIGHT GRAY CONCRETE  
POURED ON ABUTMENT WALL NORTH END

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



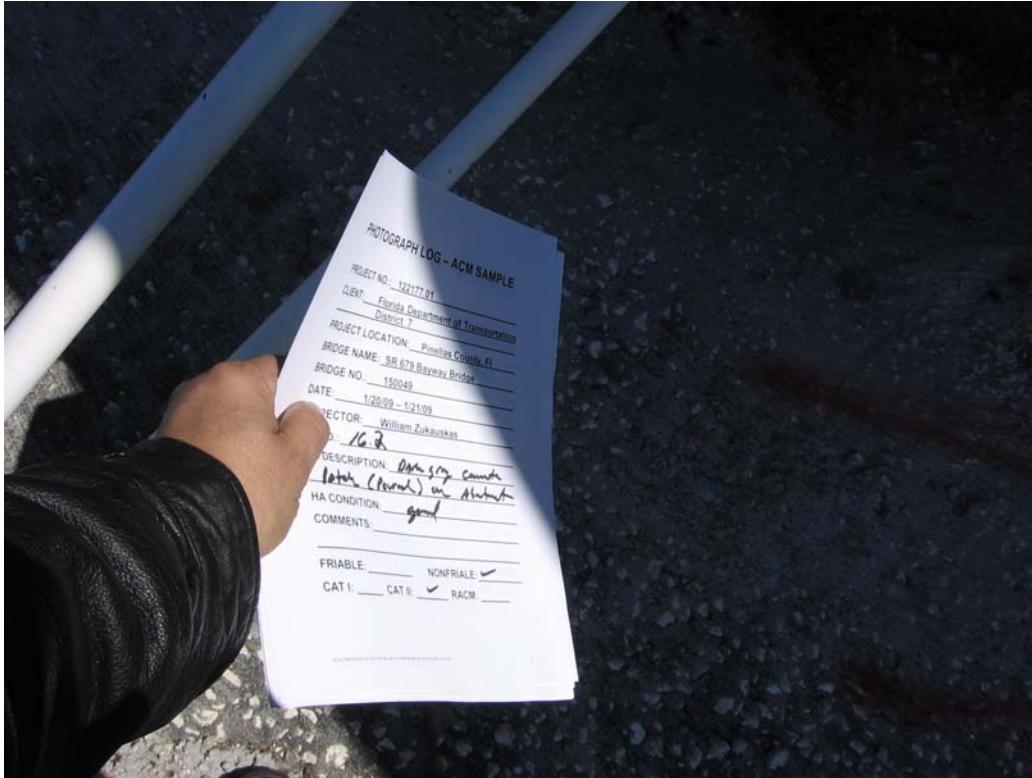
**PHOTO 39 – 01/21/09 – SAMPLE 15.3 – HA 15**  
**LIGHT GRAY CONCRETE**  
**POURED ON ABUTMENT WALL NORTH END**



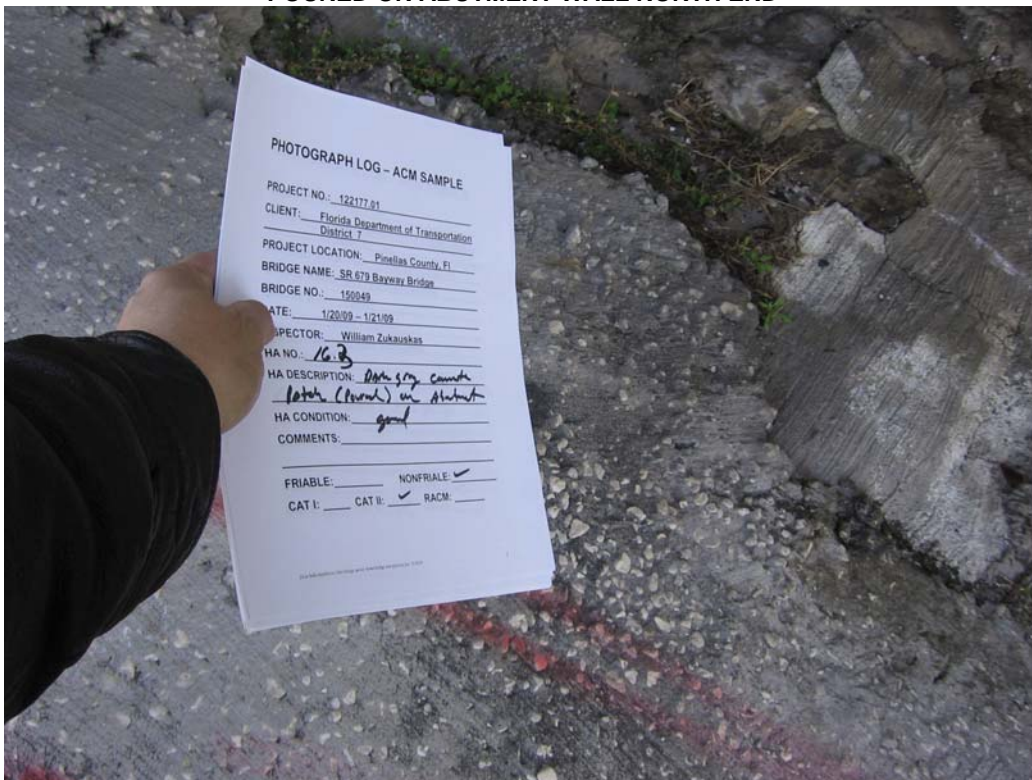
**PHOTO 40 – 01/21/09 – SAMPLE 16.1 – HA 16**  
**DARK GRAY CONCRETE**  
**POURED ON ABUTMENT WALL NORTH END**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

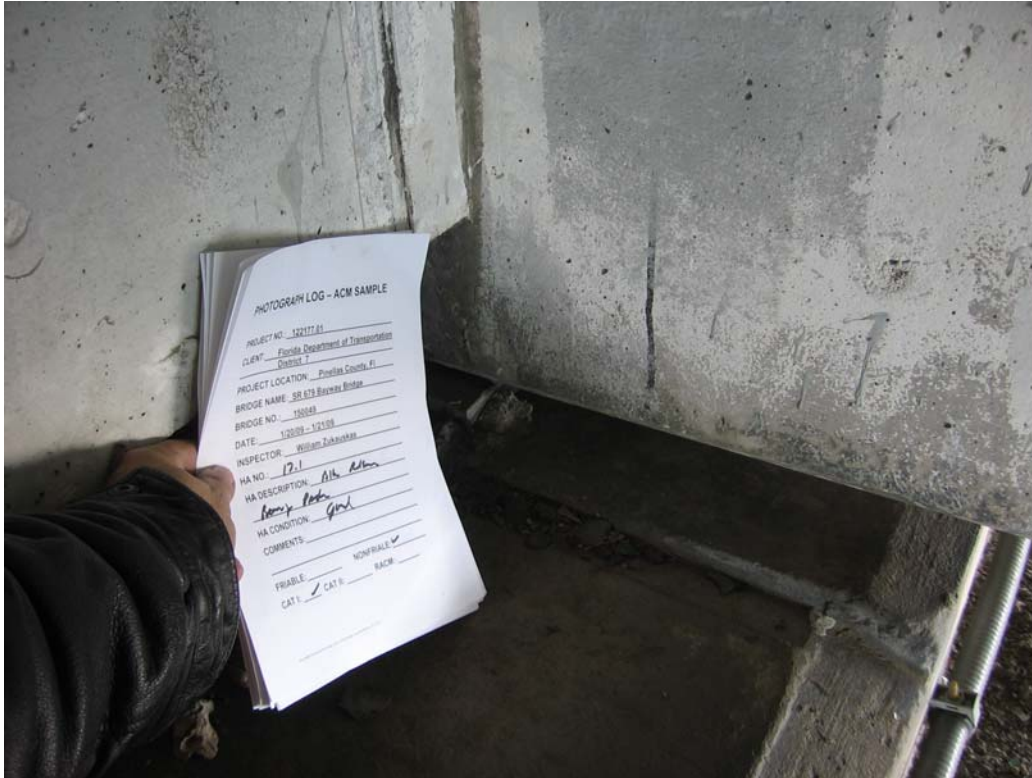


**PHOTO 41 – 01/21/09 – SAMPLE 16.2 – HA 16**  
**DARK GRAY CONCRETE**  
**POURED ON ABUTMENT WALL NORTH END**

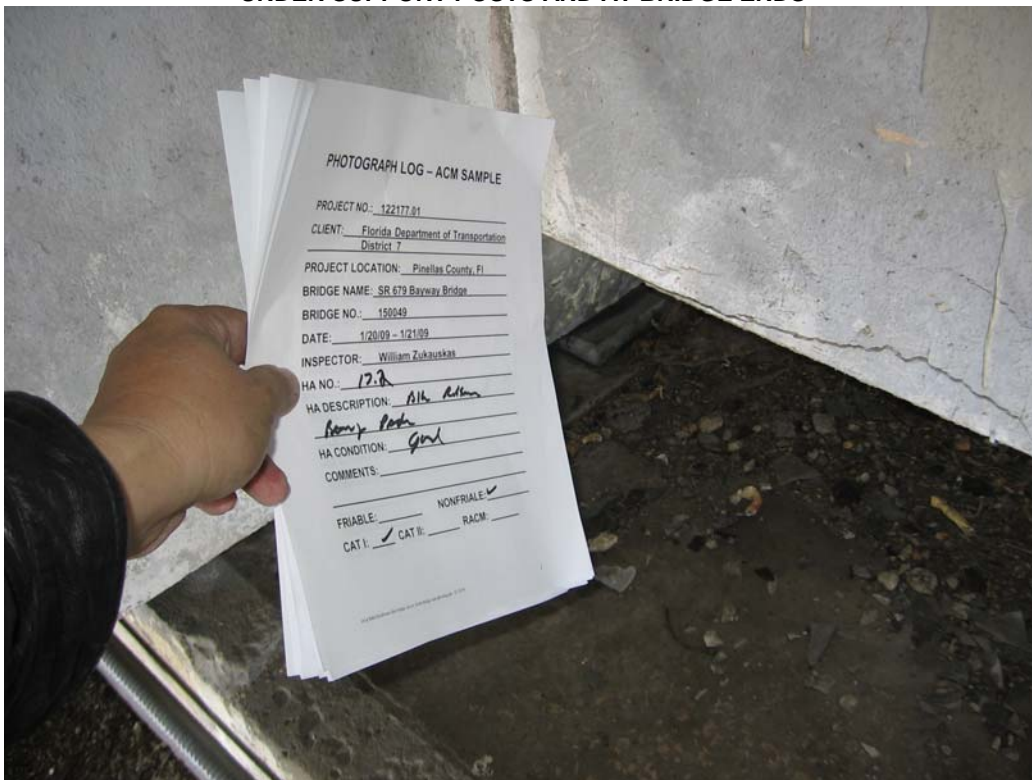


**PHOTO 42 – 01/21/09 – SAMPLE 16.3 – HA 16**  
**DARK GRAY CONCRETE**  
**POURED ON ABUTMENT WALL NORTH END**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



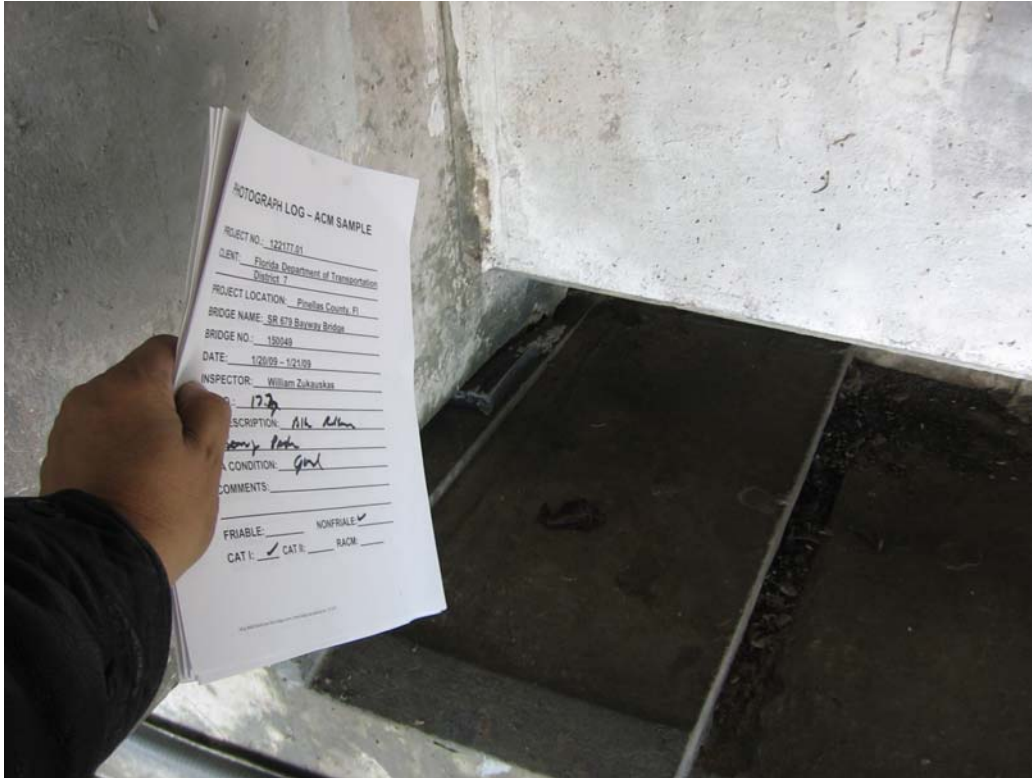
**PHOTO 43 – 01/21/09 – SAMPLE 17.1 – HA 17**  
**BLACK RUBBER BEARING PADS**  
**UNDER SUPPORT POSTS AND AT BRIDGE ENDS**



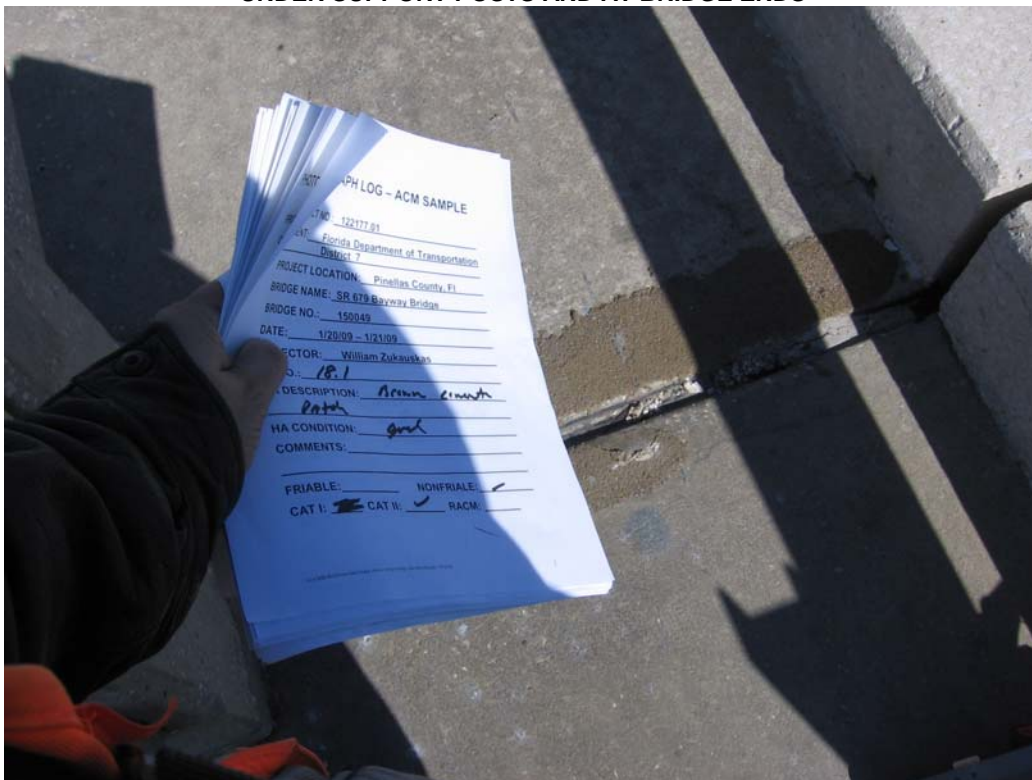
**PHOTO 44 – 01/21/09 – SAMPLE 17.2 – HA 17**  
**BLACK RUBBER BEARING PADS**  
**UNDER SUPPORT POSTS AND AT BRIDGE ENDS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

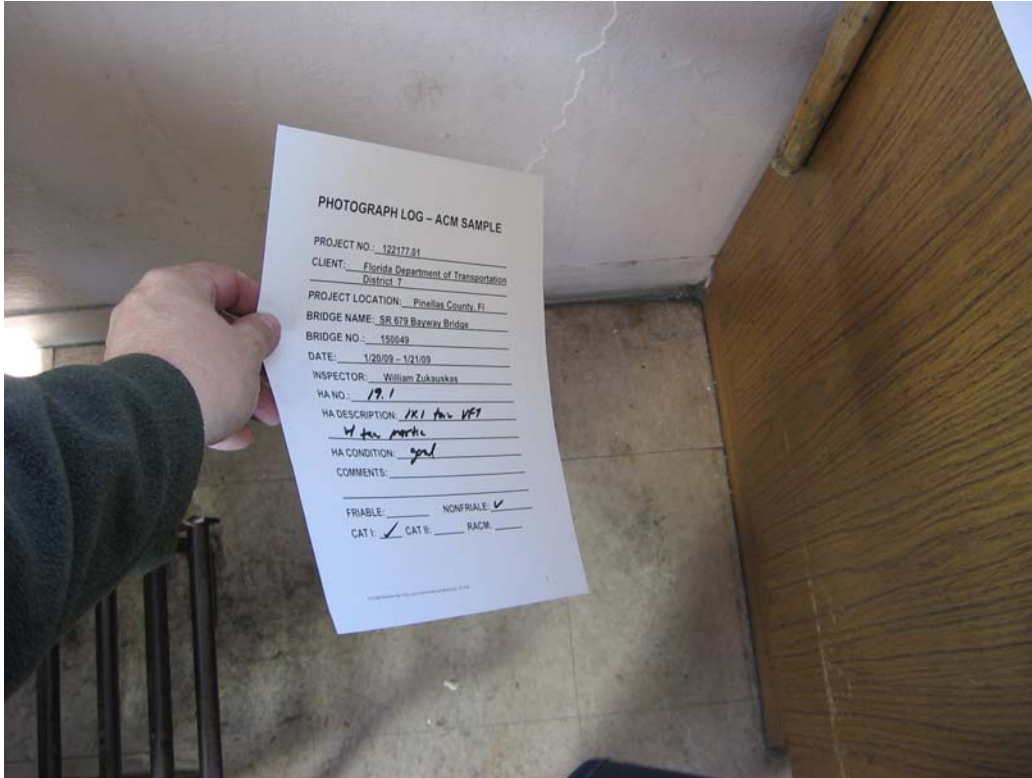


**PHOTO 45 – 01/21/09 – SAMPLE 17.3 – HA 17**  
**BLACK RUBBER BEARING PADS**  
**UNDER SUPPORT POSTS AND AT BRIDGE ENDS**

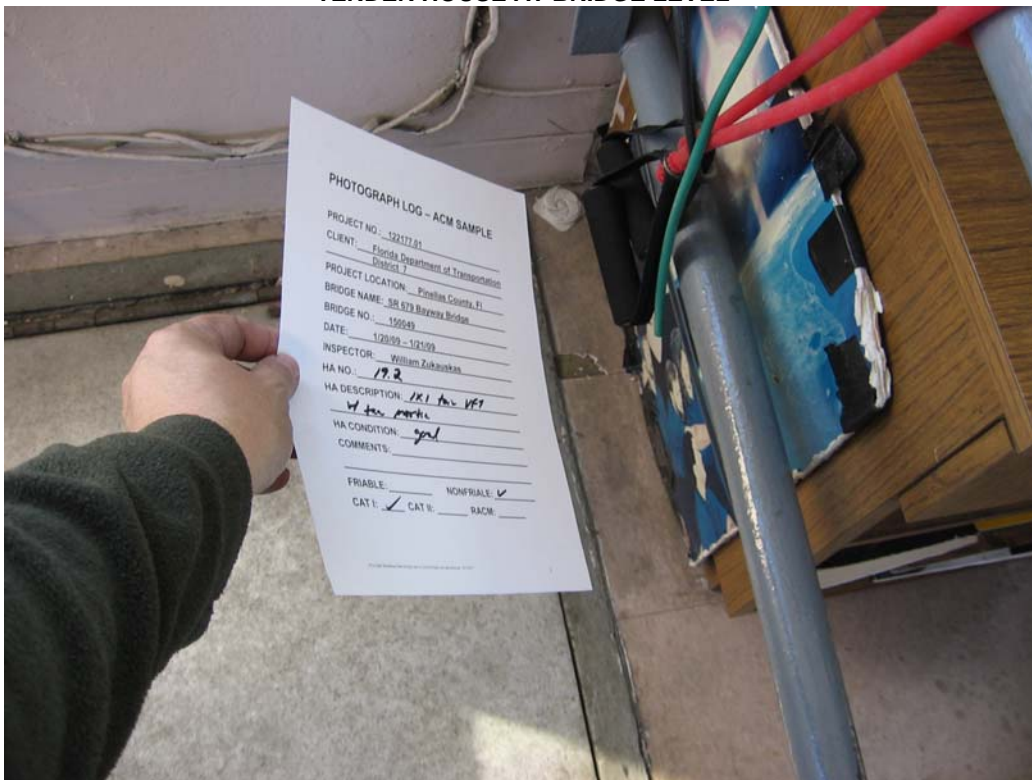


**PHOTO 46 – 01/21/09 – SAMPLE 18.1 – HA 18**  
**BROWN CONCRETE**  
**PATCH ON SIDEWALKS NW AND SE SIDES**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



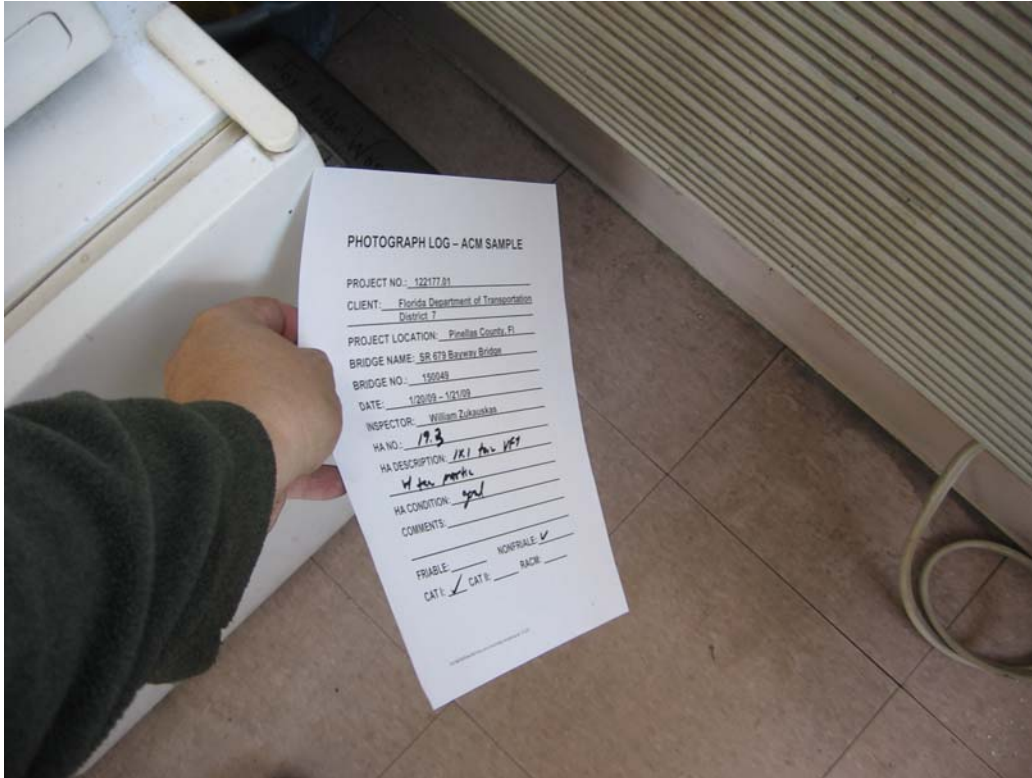
**PHOTO 47 – 01/21/09 – SAMPLE 19.1 – HA 19**  
**1'X 1' TAN VINYL FLOOR TILE WITH TAN MASTIC**  
**TENDER HOUSE AT BRIDGE LEVEL**



**PHOTO 48 – 01/21/09 – SAMPLE 19.2 – HA 19**  
**1'X 1' TAN VINYL FLOOR TILE WITH TAN MASTIC**  
**TENDER HOUSE AT BRIDGE LEVEL**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

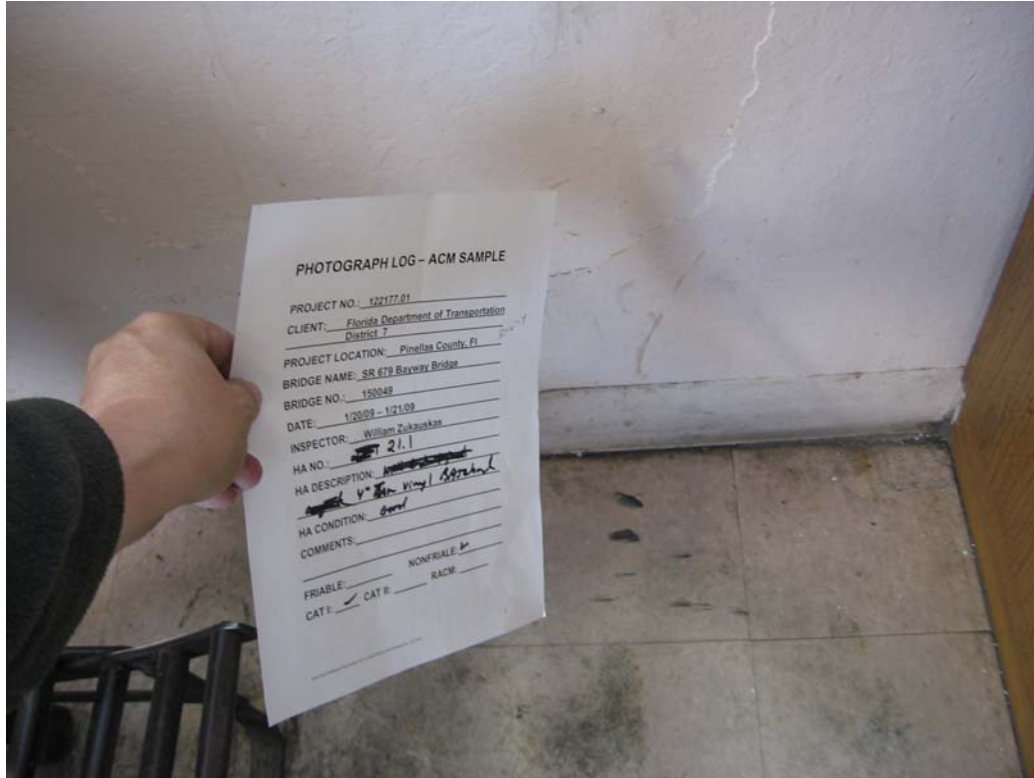


**PHOTO 49 – 01/21/09 – SAMPLE 19.3 – HA 19**  
**1'X 1' TAN VINYL FLOOR TILE WITH TAN MASTIC**  
**TENDER HOUSE AT BRIDGE LEVEL**

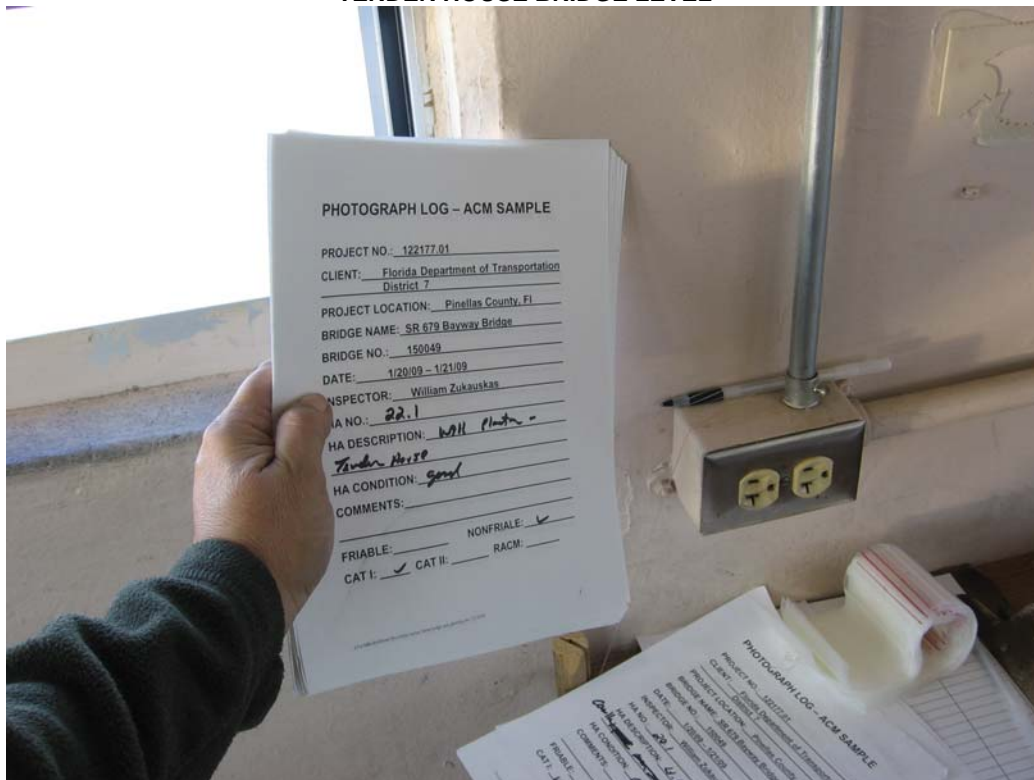


**PHOTO 50 – 01/21/09 – SAMPLE 20.1 – HA 20**  
**GRAY CAULK**  
**TENDER HOUSE EXTERIOR AND INTERIOR OF METAL WINDOW FRAMES**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**

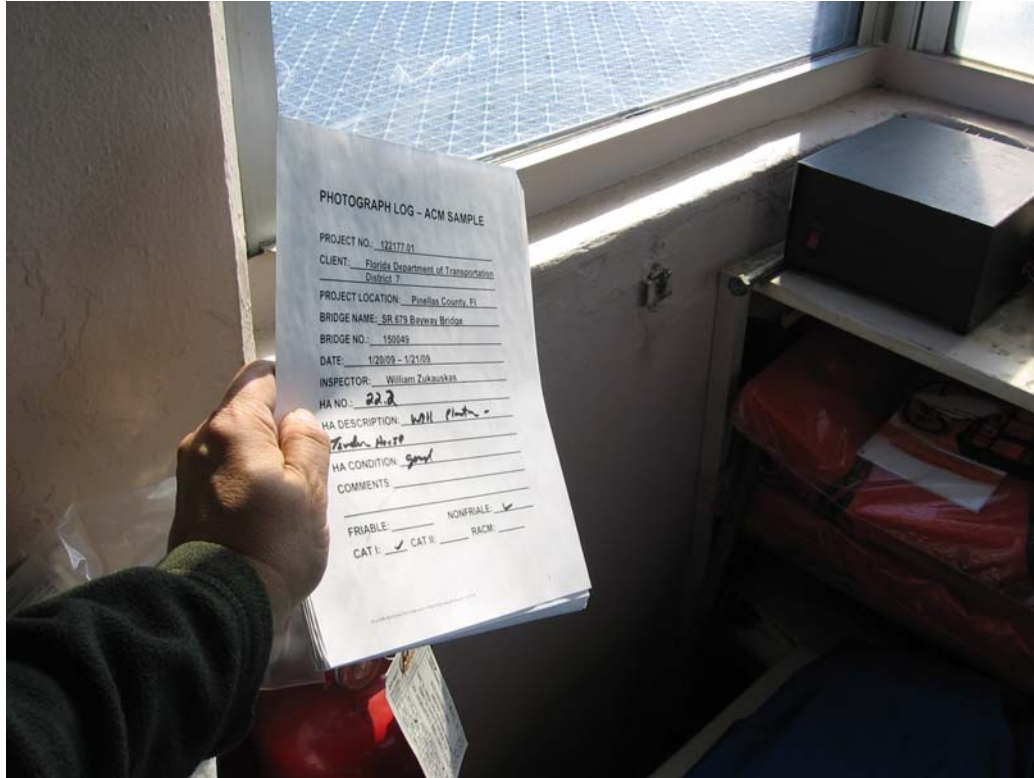


**PHOTO 51 – 01/21/09 – SAMPLE 21.1 – HA 21**  
**4" TAN VINYL BASEBOARD WITH TAN MASTIC**  
**TENDER HOUSE BRIDGE LEVEL**

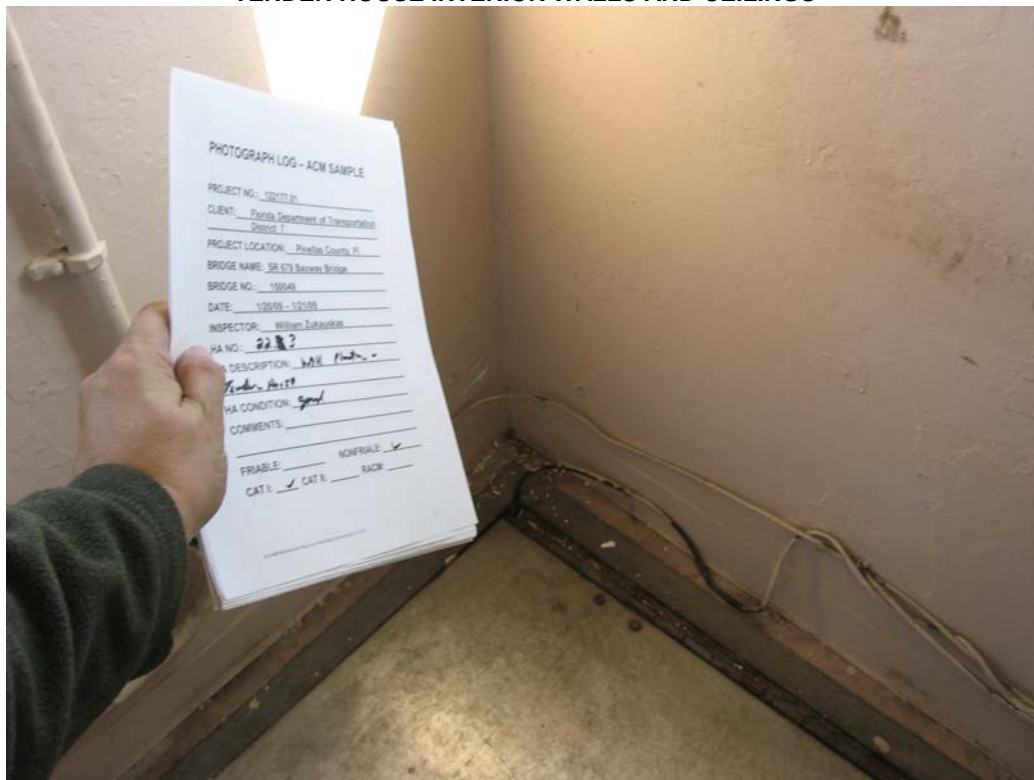


**PHOTO 52 – 01/21/09 – SAMPLE 22.1 – HA 22**  
**PLASTER**  
**TENDER HOUSE INTERIOR WALLS AND CEILINGS**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



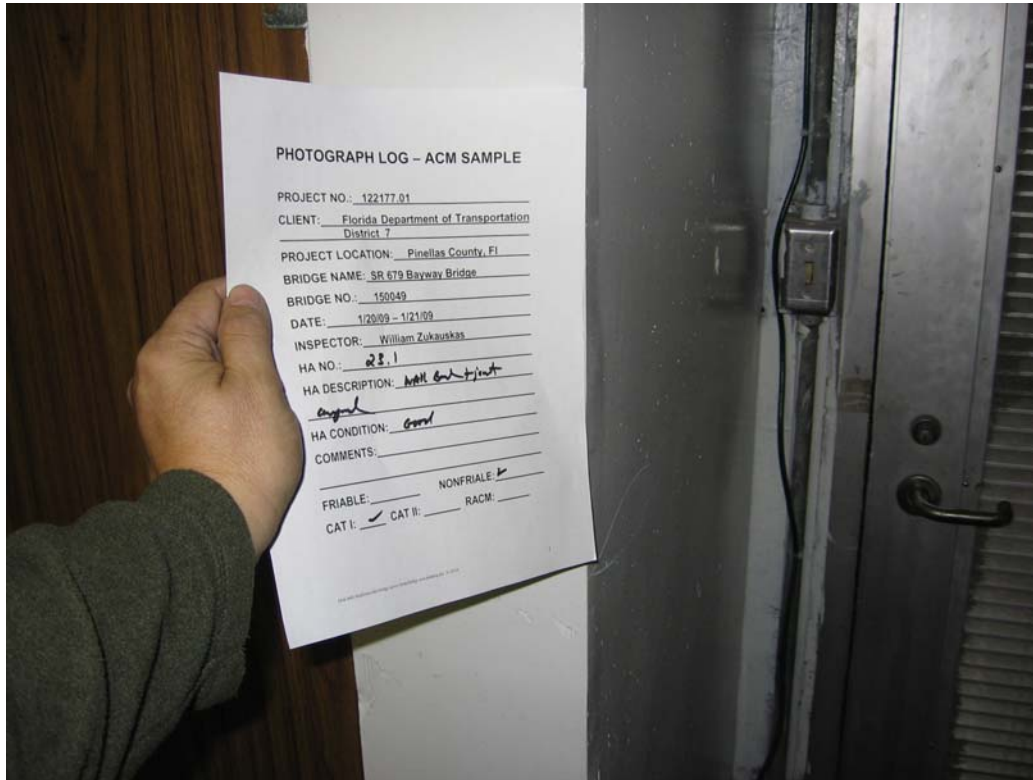
**PHOTO 53 – 01/21/09 – SAMPLE 22.2 – HA 22**  
**PLASTER**  
**TENDER HOUSE INTERIOR WALLS AND CEILINGS**



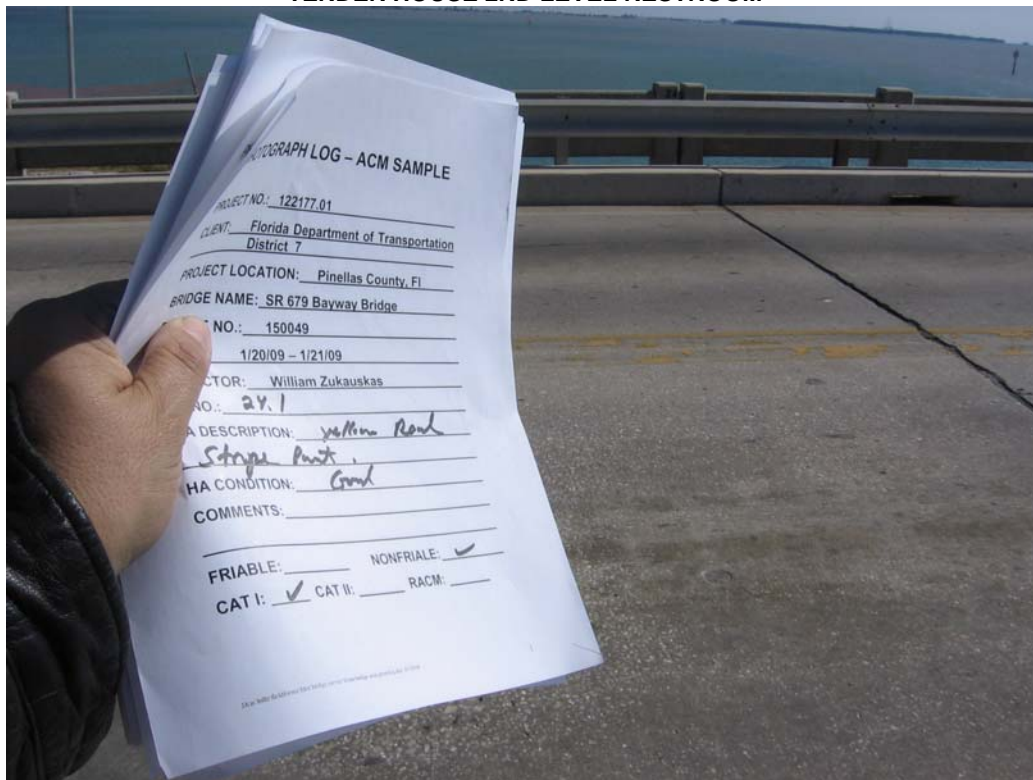
**PHOTO 54 – 01/21/09 – SAMPLE 22.3 – HA 22**  
**PLASTER**  
**TENDER HOUSE INTERIOR WALLS AND CEILINGS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



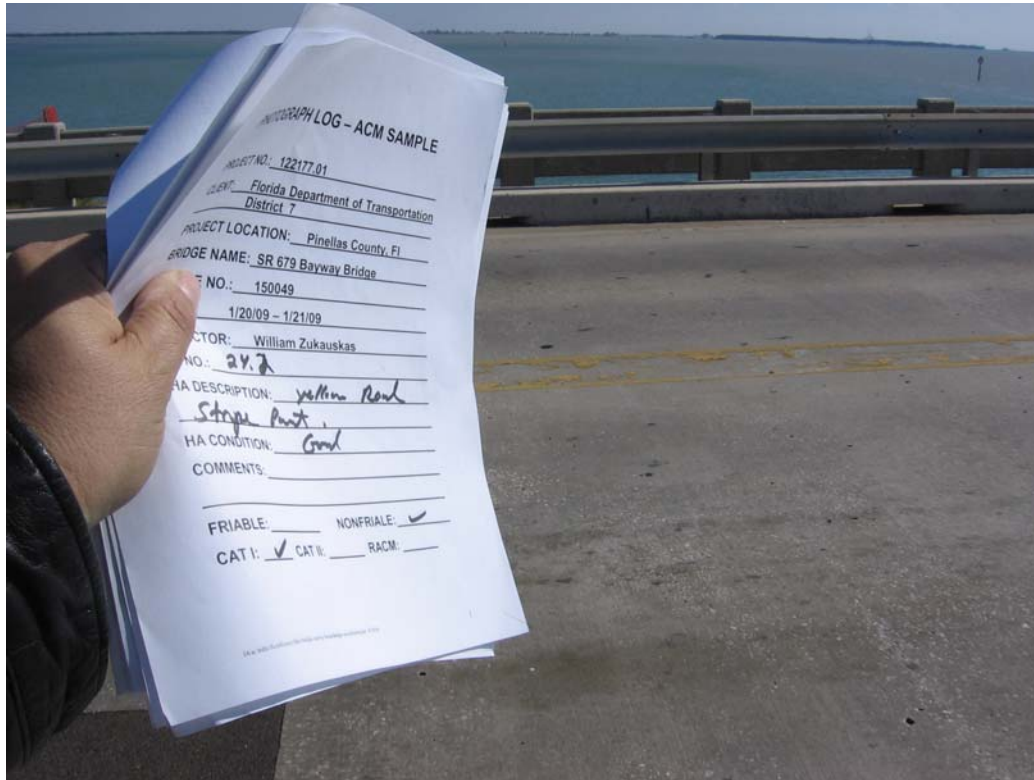
**PHOTO 55 - 01/21/09 - SAMPLE 23.1 - HA 23**  
**WALLBOARD AND JOINT COMPOUND**  
**TENDER HOUSE 2ND LEVEL RESTROOM**



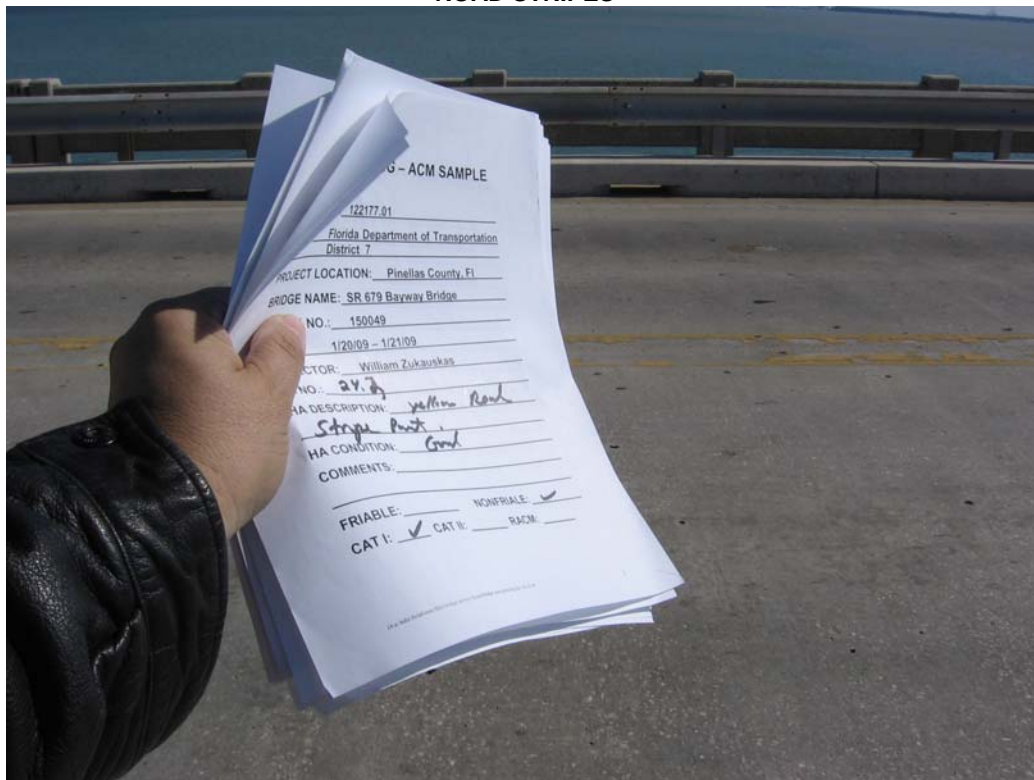
**PHOTO 56 - 01/21/09 - SAMPLE 24.1 - HA 24**  
**YELLOW PAINT**  
**ROAD STRIPES**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 57 – 01/21/09 – SAMPLE 24.2 – HA 24**  
**YELLOW PAINT**  
**ROAD STRIPES**



**PHOTO 58 – 01/21/09 – SAMPLE 24.3 – HA 24**  
**YELLOW PAINT**  
**ROAD STRIPES**

# BRIDGE 150049 ASBESTOS SURVEY PHOTO LOG

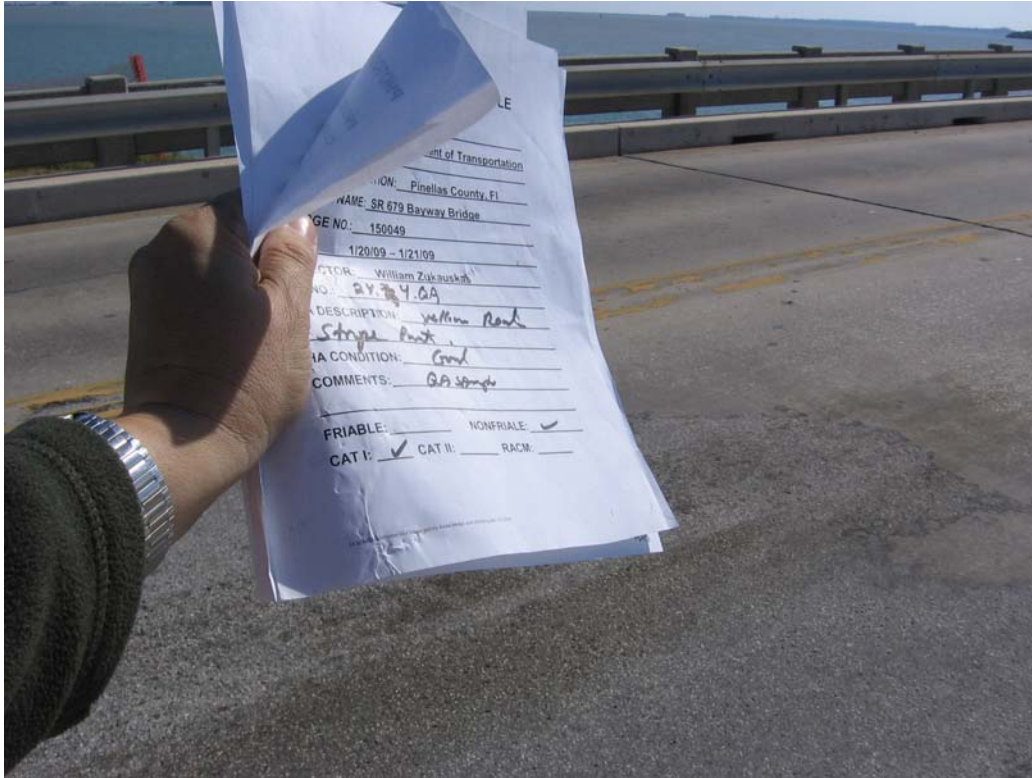


PHOTO 59 – 01/21/09 – SAMPLE 24.4 QA/QC – HA 24  
YELLOW PAINT  
ROAD STRIPES

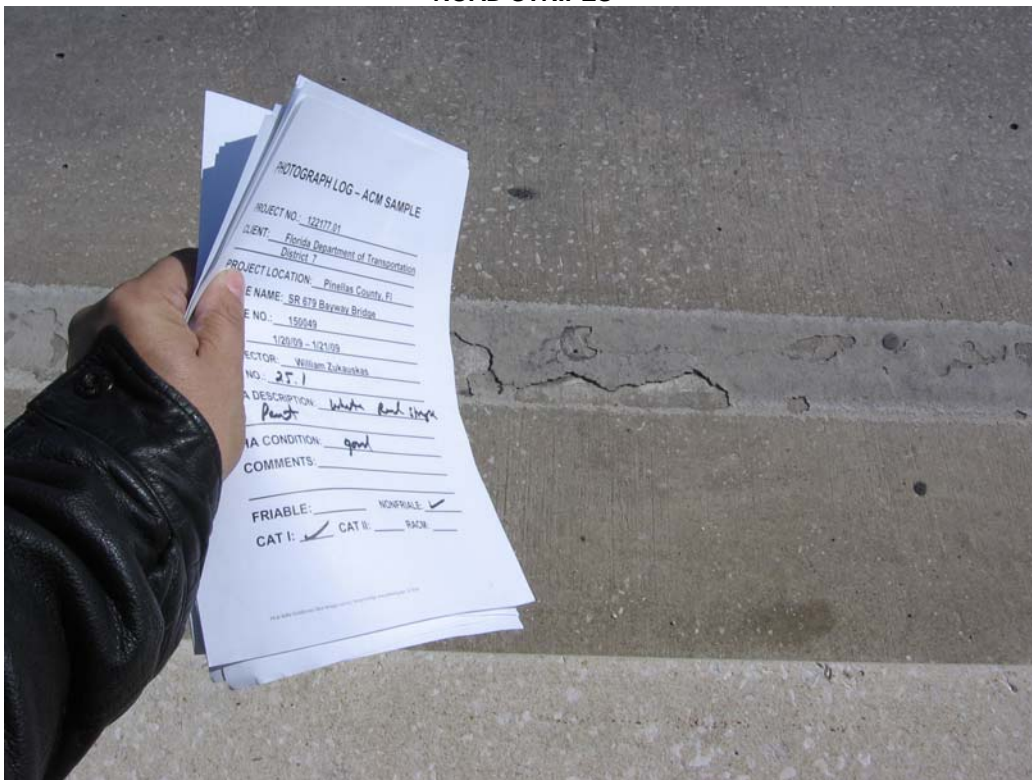
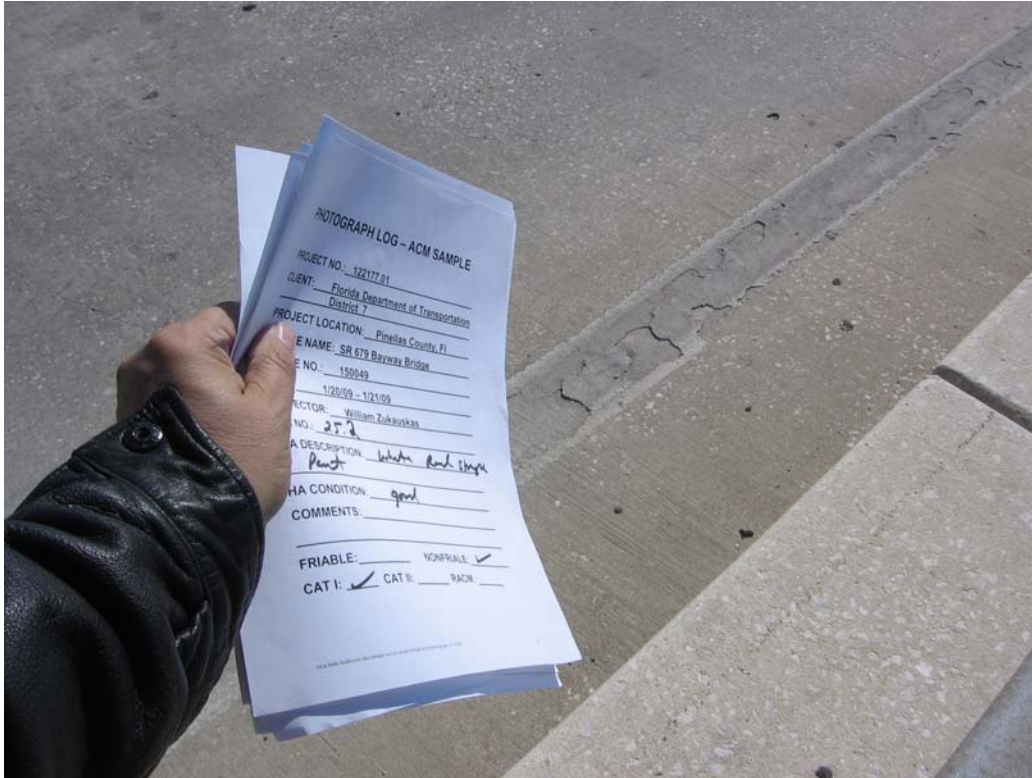


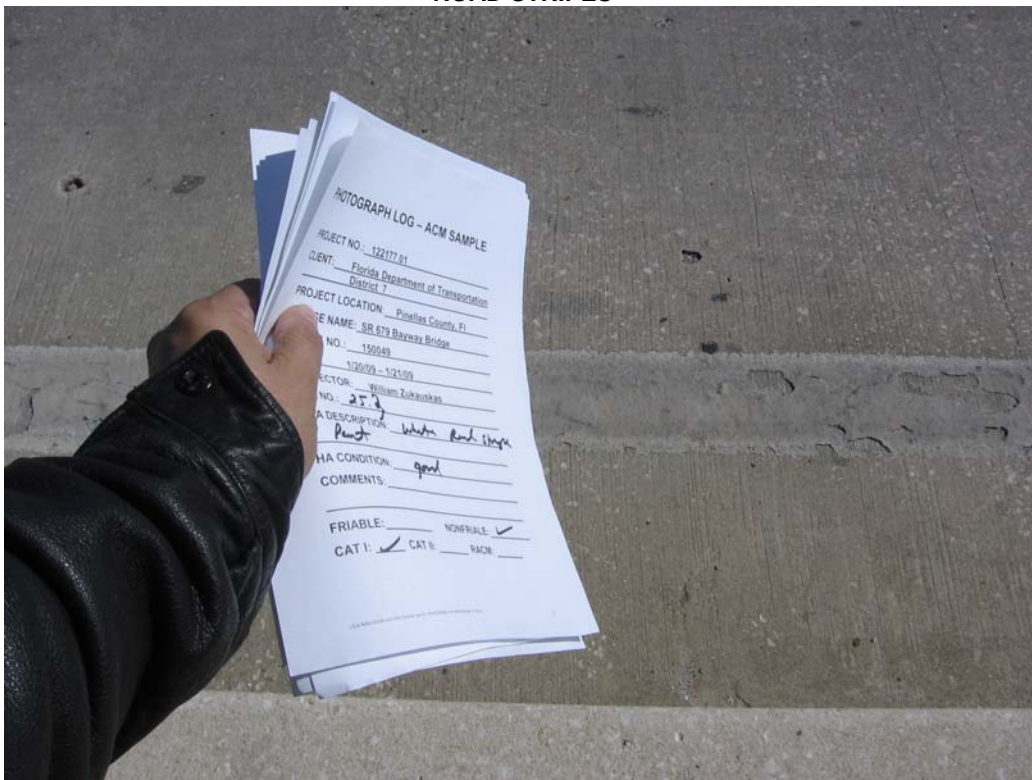
PHOTO 60 – 01/21/09 – SAMPLE 25.1 – HA 25  
WHITE PAINT  
ROAD STRIPES



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 61 – 01/21/09 – SAMPLE 25.2 – HA 25**  
**WHITE PAINT**  
**ROAD STRIPES**



**PHOTO 62 – 01/21/09 – SAMPLE 25.3 – HA 25**  
**WHITE PAINT**  
**ROAD STRIPES**

# BRIDGE 150049 ASBESTOS SURVEY PHOTO LOG

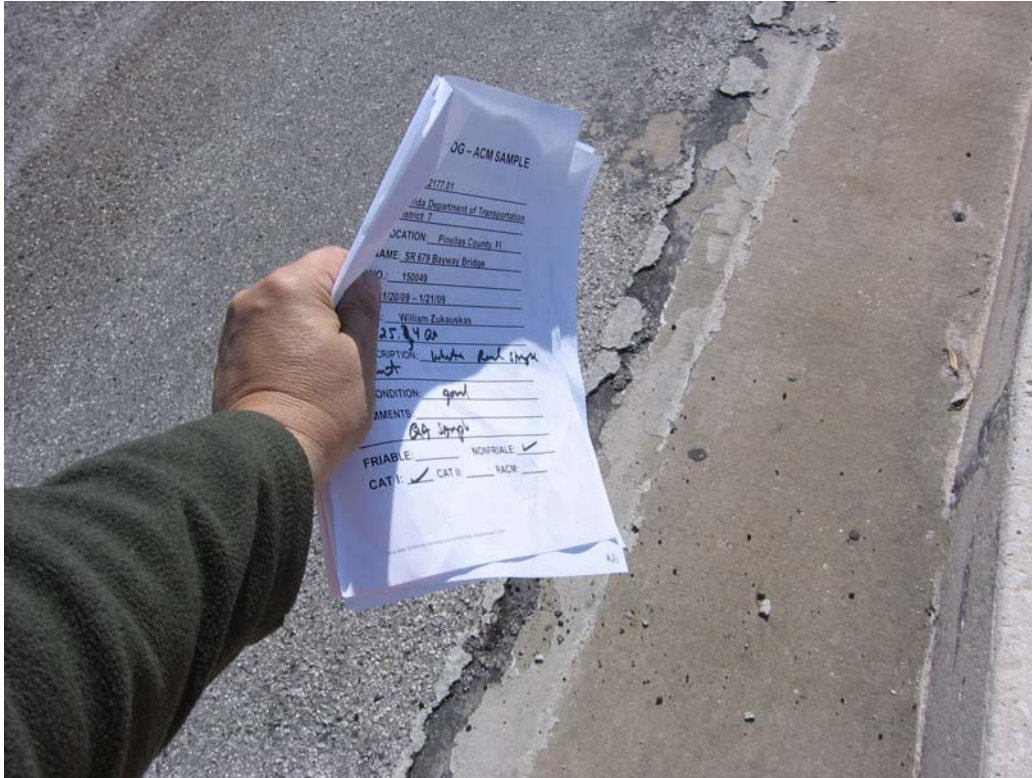


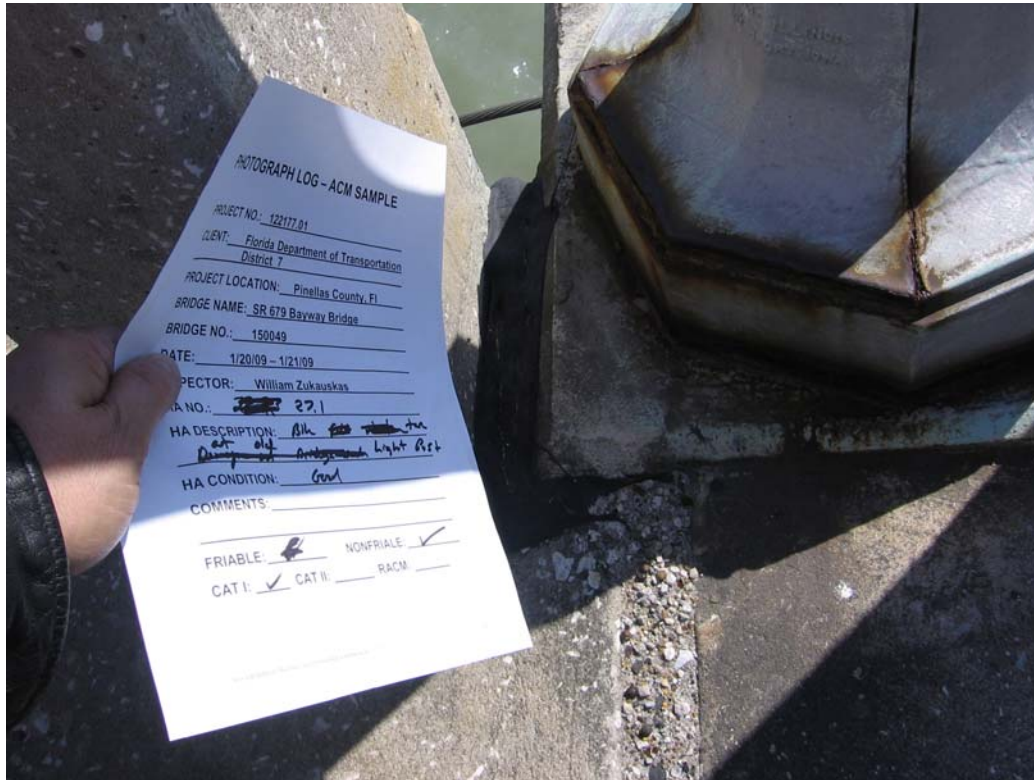
PHOTO 63 - 01/21/09 - SAMPLE 25.4 QA/QC - HA 25  
WHITE PAINT  
ROAD STRIPES



PHOTO 64 - 01/21/09 - SAMPLE 26.1 - HA 26  
LIGHT GRAY CONCRETE  
LIP AROUND MAN WAY ON SE SIDE OF BRIDGE



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



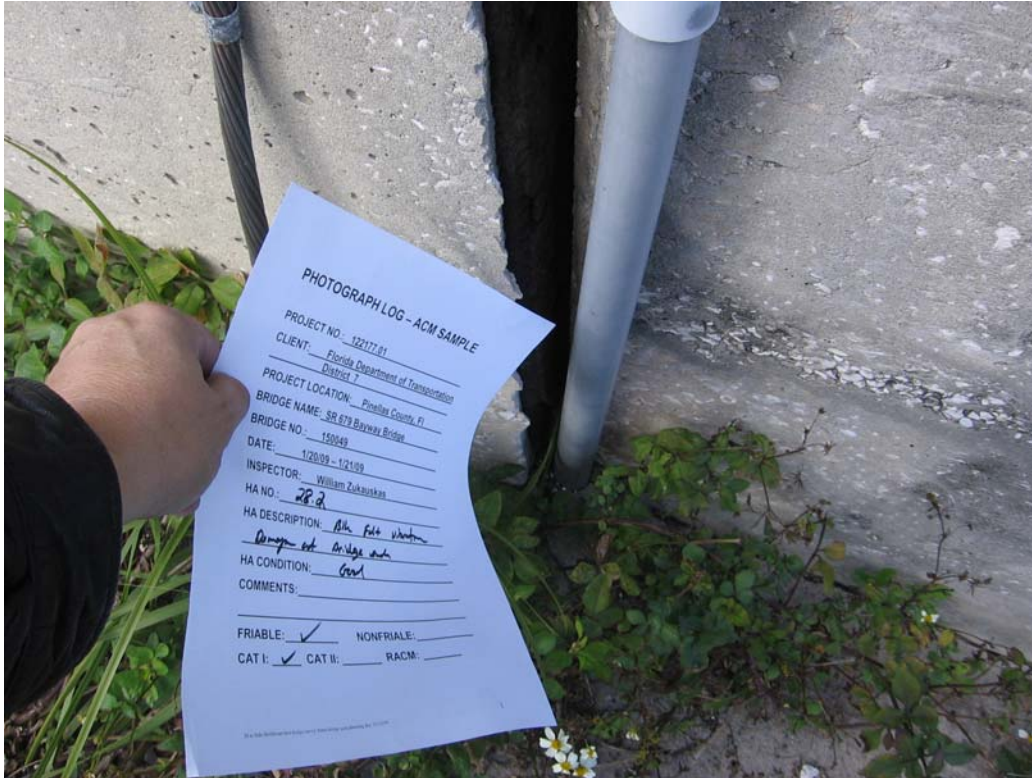
**PHOTO 65 - 01/21/09 - SAMPLE 27.1 - HA 27**  
**BLACK TAR**  
**AT LIGHT POST BY SIDEWALK ON SE SIDE**



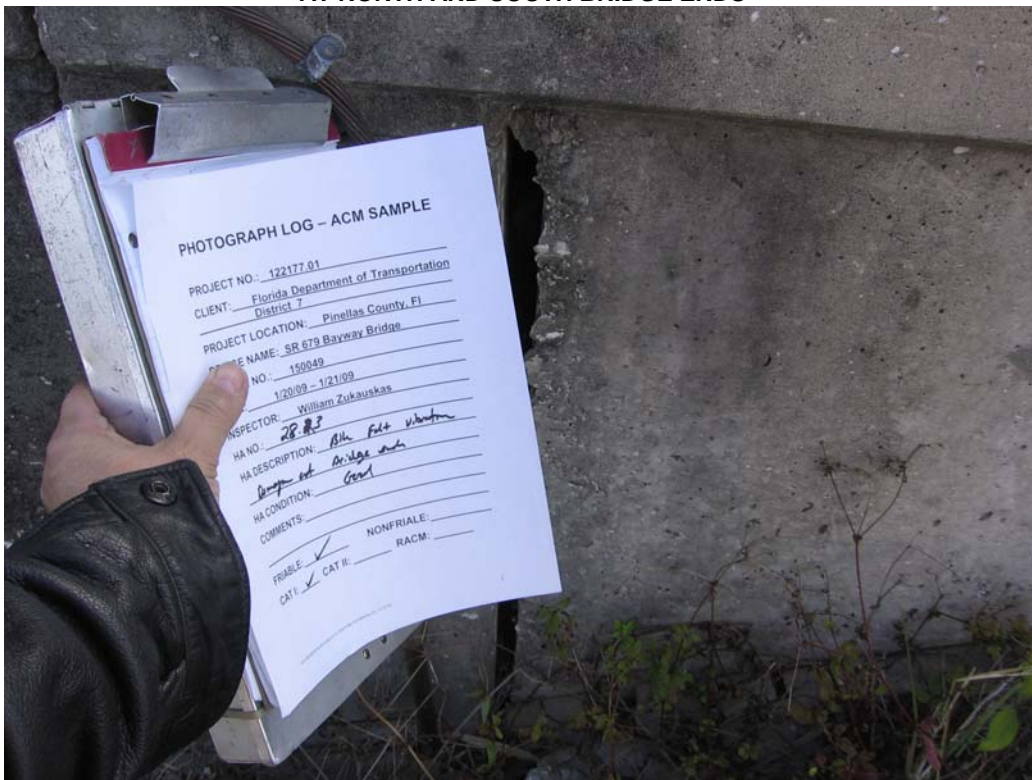
**PHOTO 66 - 01/21/09 - SAMPLE 28.1 - HA 28**  
**BLACK VIBRATION DAMPERS**  
**AT NORTH AND SOUTH BRIDGE ENDS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 67 – 01/21/09 – SAMPLE 28.2 – HA 28**  
**BLACK VIBRATION DAMPERS**  
**AT NORTH AND SOUTH BRIDGE ENDS**



**PHOTO 68 – 01/21/09 – SAMPLE 28.3 – HA 28**  
**BLACK VIBRATION DAMPERS**  
**AT NORTH AND SOUTH BRIDGE ENDS**

**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 69 – 01/21/09 – SAMPLE 29.1 – HA 29**  
**CONCRETE**  
**PILINGS/PIERS AT WOOD FENDERS**



**PHOTO 70 – 01/21/09 – SAMPLE 29.2 – HA 29**  
**CONCRETE**  
**PILINGS/PIERS AT WOOD FENDERS**



**BRIDGE 150049**  
**ASBESTOS SURVEY PHOTO LOG**



**PHOTO 71 – 01/21/09 – SAMPLE 29.3 – HA 29**  
**CONCRETE**  
**PILINGS/PIERS AT WOOD FENDERS**



**PHOTO 72 – 01/21/09 – SAMPLE ASSUMED – HA 30**  
**BRAKE SHOES**  
**ON BRIDGE LIFT EQUIPMENT**

## **SECTION 4**

### **LABORATORY ANALYTICAL DATA AND CHAIN OF CUSTODY FORM(S)**



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Customer PO:  
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EMSL Order: 040902165

Fax: (904) 636-9356 Phone: (904) 636-9360  
Project: 122177.01 BRIDGE 150049

EMSL Proj:  
Analysis Date: 1/29/2009  
Report Date: 1/29/2009

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized  
Light Microscopy**

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
150049-1.1 040902165-0001		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-1.2 040902165-0002		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-1.3 040902165-0003		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-2.1 040902165-0004		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-2.2 040902165-0005		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-2.3 040902165-0006		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-3.1 040902165-0007		White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Erica Valent (51)  
Kevin Pang (19)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized  
Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
150049-3.2 040902165-0008		White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-3.3 040902165-0009		White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-4.1 040902165-0010		Brown/Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-4.2 040902165-0011		Brown/Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-4.3 040902165-0012		Brown/Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-5.1 040902165-0013		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-5.2 040902165-0014		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

## Analyst(s)

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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized  
Light Microscopy**

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
150049-5.3 040902165-0015		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-6.1 040902165-0016		Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-7.1 040902165-0017		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-8.1 040902165-0018		Gray Non-Fibrous Heterogeneous	20% Wollastonite	80% Non-fibrous (other)	None Detected
150049-9.1 040902165-0019		Gray Non-Fibrous Heterogeneous	SUGGEST TEM	100% Non-fibrous (other)	<1% Chrysotile
150049-10.1 040902165-0020		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-10.2 040902165-0021		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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EMSL Proj:  
Analysis Date: 1/29/2009  
Report Date: 1/29/2009

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
150049-10.3 040902165-0022		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-11.1 040902165-0023		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-11.2 040902165-0024		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-11.3 040902165-0025		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-12.1 040902165-0026		Black Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
150049-12.2 040902165-0027		Black Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
150049-12.3 040902165-0028		Black Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected

Analyst(s)

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Kevin Pang (19)

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EMSL Proj:  
Analysis Date: 1/29/2009  
Report Date: 1/29/2009

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
150049-13.1 040902165-0029		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-13.2 040902165-0030		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-13.3 040902165-0031		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-14.1 040902165-0032		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-15.1 040902165-0033		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-15.2 040902165-0034		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-15.3 040902165-0035		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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EMSL Proj:  
Analysis Date: 1/29/2009  
Report Date: 1/29/2009

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
150049-16.1 040902165-0036		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-16.2 040902165-0037		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-16.3 040902165-0038		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-17.1 040902165-0039		Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-17.2 040902165-0040		Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-17.3 040902165-0041		Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-18.1 040902165-0042		Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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EMSL Proj:  
Analysis Date: 1/29/2009  
Report Date: 1/29/2009

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
150049-19.1 TILE 040902165-0043		Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-19.1 MASTIC 040902165-0043A		Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-19.2 TILE 040902165-0044		Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-19.2 MASTIC 040902165-0044A		Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-19.3 TILE 040902165-0046		Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-19.3 MASTIC 040902165-0045A		Yellow Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
150049-20.1 040902165-0048		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Kevin Pang (19)

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Analysis Date: 1/29/2009  
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**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized  
Light Microscopy**

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
150049-21.1 BASE 040902165-0047		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-21.1 MASTIC 040902165-0047A		Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-22.1 040902165-0048		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-22.2 040902165-0048A		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-22.3 040902165-0049		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-23.1 DRYWALL 040902165-0050		Brown/White Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
150049-23.1 JOINT COMPOUND 040902165-0050A		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

**EMSL Analytical, Inc.**

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-4960 Email: [westmontlab@EMSL.com](mailto:westmontlab@EMSL.com)

Attn: **Bill Zukauskas**  
**Shaw Environmental, Inc.**  
**9143 Phillips Highway**  
**Suite 400**  
**Jacksonville, FL 32256**

Customer ID: SHAE77

Customer PO:

Received: 01/23/09 9:10 AM

EMSL Order: 040902165

Fax: (904) 636-9356 Phone: (904) 636-9360

Project: 122177.01 BRIDGE 150049

EMSL Proj:

Analysis Date: 1/29/2009

Report Date: 1/29/2009

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
150049-24.1 040902165-0051		Orange Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-25.1 040902165-0052		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-26.1 040902165-0053		Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-27.1 040902165-0054		Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-28.1 040902165-0055		Brown/Black Fibrous Heterogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
150049-28.2 040902165-0056		Brown/Black Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
150049-28.3 040902165-0057		Brown/Black Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Erica Valent (51)

Kevin Pang (19)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

**EMSL Analytical, Inc.**

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-4960 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Bill Zukauskas**  
**Shaw Environmental, Inc.**  
**9143 Phillips Highway**  
**Suite 400**  
**Jacksonville, FL 32256**

Customer ID: SHAE77  
Customer PO:  
Received: 01/23/09 9:10 AM  
EMSL Order: 040902165

Fax: (904) 636-9356 Phone: (904) 636-9360  
Project: 122177.01 BRIDGE 150049

EMSL Proj:  
Analysis Date: 1/29/2009  
Report Date: 1/29/2009

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized  
Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
150049-29.1 040902165-0058		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-29.2 040902165-0059		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-29.3 040902165-0060		White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-24.2 040902165-0061		Orange Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-24.3 040902165-0062		Orange Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-25.2 040902165-0063		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
150049-25.3 040902165-0064		Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Erica Valent (51)  
Kevin Pang (19)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analysis performed by EMSL, Westmont (NVLAP #101048-0), NY ELAP 10872





# Chain of Custody

## Asbestos Lab Services

EMSL Analytical, Inc.  
Suite 900  
5125 Adanson St  
Orlando, FL 32804  
Phone: (407) 599-5887  
Fax: (407) 599-9063  
<http://www.emsl.com>

040902165

Please print all information legibly.

*Positive step*

Company:	Shaw Environmental	Bill To:	Shaw Environmental
Address 1:	9143 Philips Highway	Address 1:	9143 Philips Highway
Address 2:	Suite 400	Address 2:	Suite 400
City/State:	Jacksonville, Florida	City/State:	Jacksonville, Florida
Zip/Post Code:	32256	Zip/Post Code:	32256
Country:	USA	Country:	USA
Contact Name:	Bill Zukauskas	Contact Name:	Bill Zukauskas
Phone:	904-509-9662	Phone:	904-509-9662
Fax:	904-367-6001	Fax:	904-367-6001
Email:	william.zukauskas@shawgrp.com	Email:	william.zukauskas@shawgrp.com
EMSL Ref:		EMSL Ref:	
Project Name/Number:	122177.01 Bridge 150049		

MATRIX			TURNAROUND			
<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input type="checkbox"/> 24 Hours (1 day)
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input checked="" type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour lat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

\*12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote

*61 samples*

PCM - Air	TEM Air	TEM WATER
<input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994	<input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E	<input type="checkbox"/> EPA 100.1
<input type="checkbox"/> OSHA w/TWA	<input type="checkbox"/> NIOSH 7402	<input type="checkbox"/> EPA 100.2
<input type="checkbox"/> Other:	<input type="checkbox"/> EPA Level II	<input type="checkbox"/> NYS 198.2
<b>PLM - Bulk</b>	<b>TEM BULK</b>	<b>TEM Microvac/Wipe</b>
<input checked="" type="checkbox"/> EPA 600/R-93/116	<input type="checkbox"/> Drop Mount (Qualitative)	<input type="checkbox"/> ASTM D 5755-98 (quantitative method)
<input type="checkbox"/> EPA Point Count	<input type="checkbox"/> Chatfield SOP - 1988-02	<input type="checkbox"/> Wipe Qualitative
<input type="checkbox"/> NY Stratified Point Count	<input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4	
<input type="checkbox"/> PLM NOB (Gravimetric) NYS	<input type="checkbox"/> EMSL Standard Addition:	<b>XRD</b>

SAMPLES ACCEPTED  
FOR ANALYSIS BY  
EMSL ANALYTICAL INC.



Reference stop

## Chain of Custody

Page 1 of 5

040902165

## Asbestos Lab Services

EMSL Analytical, Inc.  
Suite 900  
5125 Adanson St  
Orlando, FL 32804  
Phone: (407) 599-5887  
Fax: (407) 599-9063  
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) 150049-1.1 - 150049-29.3

Relinquished: Betty Jones Date: 1/22/09Total Samples #: 61

Received: \_\_\_\_\_ Date: \_\_\_\_\_

Time: 1700

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_

Time: \_\_\_\_\_

Received: DM-LPS-9107 Date: \_\_\_\_\_

Time: \_\_\_\_\_

Time: \_\_\_\_\_

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
150049-1.1	Concrete deck + column	
150049-1.2	↓	
150049-1.3	↓	
150049-2.1	Rails + Posts	
150049-2.2	↓	
150049-2.3	↓	
150049-3.1	Concrete curb	
150049-3.2	↓	
150049-3.3	↓	
150049-4.1	concrete seawall	
150049-4.2	↓	
150049-4.3	↓	
150049-5.1	concrete Abutment wall	
150049-5.2	↓	

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## Chain of Custody

Page 2 of 5

EMSL Analytical, Inc.  
Suite 900  
5125 Adanson St  
Orlando, FL 32804  
Phone: (407) 599-5887  
Fax: (407) 599-9063  
<http://www.emsl.com>

040902165 Asbestos Lab Services

Please print all information legibly.

Client Sample # (s) 150049-1.1 - 150049-29.3

Relinquished: Bobt Jon Date: 1/22/09

Received: Date:

Relinquished: Date:

Received: Date:

Total Samples #: 61

Time: 1200

Time:

Time:

Time:

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
150049- 5.3	Concrete Abutment wall	
150049- 6.1	Blk mastic on <sup>Road</sup> Rail Reflector	
150049- 7.1	gray mastic on Rail Reflector	
150049- 8.1	Blk mastic patches on side walk	
150049- 9.1	<sup>Gray</sup> mastic patches on sidewalk	
150049- 10.1	Replacement concrete Rail Post	
150049- 10.2		
150049- 10.3		
150049- 11.1	Lt. wt. concrete patch on Rails + Deck	
150049- 11.2		
150049- 11.3		
150049- 12.1	Blk tape on at Rail Post	
150049- 12.2		
150049- 12.3		

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## Asbestos Lab Services

EMSL Analytical, Inc.  
Suite 900  
5125 Adanson St  
Orlando, FL 32804  
Phone: (407) 599-5887  
Fax: (407) 599-9063  
<http://www.emsl.com>

Page 3 of 5

Please print all information legibly.

Client Sample # (s) 150049-1.1 - 150049-29.3

Relinquished: Billy John Date: 1/11/09

Received: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_

Total Samples #: 61

Time: 1200

Time: \_\_\_\_\_

Time: \_\_\_\_\_

Time: \_\_\_\_\_

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
150049-13.1	Blk/gray expansion joint material	
150049-13.2		
150049-13.3		
150049-14.1	Dark gray Lt. wt. Concrete Patch <sup>on sidewalk</sup>	
150049-15.1	Lt. gray poured concrete patch	
150049-15.2		
150049-15.3		
150049-16.1	Dark gray poured concrete patch	
150049-16.2		
150049-16.3		
150049-17.1	Blk Rubber Bearing Pads	
150049-17.2		
150049-17.3		
150049-18.1	Brown concrete patch on sidewalk	

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# Chain of Custody

## Asbestos Lab Services

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5125 Adanson St  
Orlando, FL 32804  
Phone: (407) 599-5887  
Fax: (407) 599-9063  
<http://www.emsl.com>

040902165  
Please print all information legibly.

Client Sample # (s) 150049-19.1 - 150049-29.3

Relinquished: [Signature] Date: 1/22/09

Received: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_

Total Samples #: 81

Time: 1200

Time: \_\_\_\_\_

Time: \_\_\_\_\_

Time: \_\_\_\_\_

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
150049-19.1	1X1 tan VFT w/ Tan Mortar	
150049-19.2	↓	
150049-19.3		
150049-20.1	Gray window + door frame caulk	
150049-21.1	4" tan vinyl baseboard w/ Tan Mortar	
150049-22.1	Wall plaster	
150049-22.2	↓	
150049-22.3		
150049-23.1	Wall Board + joint compound	
150049-24.1	yellow paint	
150049-25.1	white paint	
150049-26.1	Lt. gray concrete lip at <sup>manway</sup>	
150049-27.1	Blk tar Patch at SE Light Port	
150049-28.1	Blk vibration Dampener	

See  
Last  
Page

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## **QUALITY ASSURANCE SAMPLING**

Quality assurance (QA) sampling was performed in accordance with the State of Florida Asbestos Survey Procedure Manual. Four QA samples (samples No. 6.2, No. 7.2, No. 24.4, and No. 25.4) were collected next to samples No. 6.1, No. 7.1, No. 24.3, and No. 25.3, respectively. None of these samples were found to contain asbestos.

JAN. 30. 2009 3:40PM

**IATL**International Asbestos  
Testing Laboratories

NO. 5221 P. 2

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054  
Telephone: 856-231-9449 Fax: 856-231-9818**CERTIFICATE OF ANALYSIS**

**Client:** Shaw E & I  
9143 Phillips Highway Suite 400  
Jacksonville FL 32256-7460

**Report Date:** 1/30/2009  
**Project:** Bridge 150049  
**Project No.:** 122177.01

**BULK SAMPLE ANALYSIS SUMMARY**

<b>Lab No.:</b> 3509725	<b>Description / Location:</b> Black Tar			
<b>Client No.:</b> 150049-6.2QA				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 3509726	<b>Description / Location:</b> Grey/Black Rubber			
<b>Client No.:</b> 150049-7.2QA				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 3509727	<b>Description / Location:</b> Yellow/Orange Paint			
<b>Client No.:</b> 150049-24.4QA				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 3509728	<b>Description / Location:</b> Black/White Non Fibrous			
<b>Client No.:</b> 150049-25.4QA				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA Lab No. 100188**

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government  
This report shall not be reproduced except in full, without written approval of the laboratory.*

**Analysis Method: EPA 600/R-93/116**

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Hargrove**Approved By:****Date:** 1/30/2009Frank E. Ehrenfeld, III  
Laboratory Director



JAN. 30. 2009 3:40PM

NO. 5221 P. 3

International Asbestos Testing Laboratories  
9000 Commerce Parkway, Suite B  
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449  
Fax 856 231-9818

### - Chain of Custody -

Client: Shaw  
9143 Philips Hwy  
JAY, FL. 32456  
Phone: 904 509 9662  
FAX: \_\_\_\_\_  
Special Instructions: \_\_\_\_\_

Project Name: Bridge 150049  
Project No.: 122177.01  
Contact: Bill Zuhlen  
Pager: 904 509 3662

Type:

Asbestos		Lead		Other	
<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Air	<input type="checkbox"/> Soil		
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Dust	<input type="checkbox"/> Bulk	<input type="checkbox"/> Paint		
<input type="checkbox"/> Water	<input type="checkbox"/> Other	<input type="checkbox"/> Water	<input type="checkbox"/> Other		

Analysis Method:

<input type="checkbox"/> PCM: NIOSH 7400	<input checked="" type="checkbox"/> PLM: Bulk Asbestos EPA 600	<input type="checkbox"/> TEM: AHERA
<input type="checkbox"/> PCM: OSHA	<input type="checkbox"/> PLM: Point Counting 198.1	<input type="checkbox"/> TEM: NIOSH 7402
<input type="checkbox"/> PCM: Other _____	<input type="checkbox"/> PLM: NOB via 198.1 (PLM only)	<input type="checkbox"/> TEM: EPA Level II
	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4	<input type="checkbox"/> TEM: Microvac / Wipe
	to meet NYSDOH requirements **	<input type="checkbox"/> TEM: Asbestos in Water
<input type="checkbox"/> AAS: NIOSH 7082 (Air)	(**call to confirm TAT)	<input type="checkbox"/> TEM: Bulk Analysis
<input type="checkbox"/> AAS: Lead in Drinking Water		<input type="checkbox"/> TEM: NOB 198.4
<input type="checkbox"/> AAS: Lead in Paint ASTM D3335-85a		<input type="checkbox"/> TEM: Other _____
<input type="checkbox"/> AAS: Lead Dust/Wipe		<input type="checkbox"/> Total Dust: NIOSH 0500
<input type="checkbox"/> AAS: Other Metals / Soil _____		

Turnaround  
Time:

FAX: \_\_\_\_\_ Verbal: \_\_\_\_\_  
date / time date / time

☐ 10 Day ☒ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ 6 hour ☐ RUSH  
Preliminary FAX/Verbal Results Requested by: \_\_\_\_\_

Sample

Numbers:

Client #(s): \_\_\_\_\_ IATL #(s): \_\_\_\_\_ Total: 4  
(start) (end) (start) (end)

Chain of  
Custody:

Relinquished: <u>Rust Jr</u>	Date: <u>1/22/09</u>	Time: <u>12:30</u>
Received: _____	Date: _____	Time: _____
Sample Log-in: <u>201123101</u>	Date: _____	Time: _____
Sample Prep: _____	Date: _____	Time: _____
Analyzed: <u>1308 1-30-09</u>	Date: <u>1/30/09</u>	Time: <u>1:30</u>
QA/QC Review: _____	Date: <u>1/30/09</u>	Time: <u>1:30</u>

Archived/Released: \_\_\_\_\_ QA/QC InterLAB Use: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

**SECTION 5**  
**CREDENTIALS FOR CONSULTANT,**  
**INSPECTOR, AND LABORATORY**



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT  
1940 NORTH MONROE STREET  
TALLAHASSEE FL 32399-0783

(850) 487-1395

SHAW ENVIRONMENTAL INC  
OWNER: SHAW ENVIRONMENTAL & INFRASTRUCTURE INC  
9143 PHILIPS HIGHWAY  
SUITE 400  
JACKSONVILLE FL 32256-7460

STATE OF FLORIDA	AC# 3477509
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION	
ZA317	10/09/07 078068584
ASBESTOS BUSINESS ORGANIZATION SHAW ENVIRONMENTAL INC OWNER: SHAW ENVIRONMENTAL & INFRA	
IS LICENSED under the provisions of Ch. 469 FS. Expiration date: NOV 30, 2009 L07100902694	

DETACH HERE

AC# 3477509	STATE OF FLORIDA	
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION		SEQ# L07100902694
ASBESTOS LICENSING UNIT		
DATE	BATCH NUMBER	LICENSE NBR
10/09/2007	078068584	ZA317
The ASBESTOS BUSINESS ORGANIZATION Named below IS LICENSED Under the provisions of Chapter 469 FS. Expiration date: NOV 30, 2009		
SHAW ENVIRONMENTAL INC OWNER: SHAW ENVIRONMENTAL & INFRASTRUCTURE INC 8021 PHILIPS HIGHWAY SUITE 12 JACKSONVILLE FL 32256-7460		
CHARLIE CRIST GOVERNOR	HOLLY BENSON SECRETARY	
DISPLAY AS REQUIRED BY LAW		

**STATE OF FLORIDA****DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION****ASBESTOS LICENSING UNIT  
1940 NORTH MONROE STREET  
TALLAHASSEE FL 32399-0783****(850) 487-1395****HANSKAT, JAMES THOMAS  
1820 SE 7TH ST  
POMPANO BEACH FL 33060**

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STATE OF FLORIDA		AC# 4136235
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION		
AX0000031	11/09/08 088110510	
ASBESTOS CONSULTANT HANSKAT, JAMES THOMAS		
IS LICENSED under the provisions of ch.469 FS. Expiration date: NOV 30, 2010 L08110900055		

DETACH HERE

AC# 4136235			STATE OF FLORIDA	
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION				
ASBESTOS LICENSING UNIT				
				SEQ# L08110900055
DATE	BATCH NUMBER	LICENSE NBR		
11/09/2008	088110510	AX0000031		
The ASBESTOS CONSULTANT Named below IS LICENSED Under the provisions of Chapter 469 FS. Expiration date: NOV 30, 2010				
HANSKAT, JAMES THOMAS 1820 SE 7TH ST POMPANO BEACH FL 33060				
CHARLIE CRIST GOVERNOR		CHARLES W. DRAGO SECRETARY		
DISPLAY AS REQUIRED BY LAW				





UNIVERSITY OF  
FLORIDA

## TREEO CENTER

Center for Training, Research and Education for Environmental Occupations certifies

**William B Zukauskas**

Shaw, 4193 Phillips Highway Suite 400 Jacksonville, FL 32256

has successfully met certificate requirements for the

**Asbestos Refresher: Inspector**

FBPR Asbestos Licensing Unit; Provider #0000995; Course #FL49-0004731  
(Reaccreditation for Inspector under TSCA Title III/AHERA)

Conducted

**04/29/2008**

Certificate #: 080422-0197

CEUs: .4

EPA accreditation expires: 04/29/2009

Principal Instructor: Brian Duchene, PE

FBPR LAC: #0000995; Course #0004731

FBPE PDHs (#0004040): 4.0

ABH: CM Points 0.5

FBPR ARCH: #1790 (0000995); Course #AR.04.318B (0007372); Hrs 5.0 (Intermediate)

William T. Engel, Jr., Ph.D.  
Director

University of Florida TREEO Center • 3900 SW 63rd Boulevard • Gainesville, FL 32608-3800 • 352-392-9570 • www.treeco.ufl.edu



UNIVERSITY OF  
FLORIDA

## TREEO CENTER

Center for Training, Research and Education for Environmental Occupations certifies

**William B Zukauskas**

Shaw 4193 Philips Highway Suite 400 Jacksonville, FL 32256

Having passed a 25-question examination with a score of 70% or higher has successfully met certificate requirements for the

**Asbestos Refresher: Management Planner**

FBR Asbestos Licensing Unit: Provider #00009951 #FL49-0004732

(Reaccreditation for Management Planner Under TSCA Title II/AHERA)

Conducted  
04/29/2008

Certificate #: 080423-0217

CEUs: .35

EPA accreditation expires: 04/29/2009

Principal Instructor: Russell E. Stauffer, P.E

FBR LAC: #0000995; Course #0004732

FBPE PDHs (#0004040): 3.5

FBPR CILs: #0000995; Full Day INS/MP Ref Only; Course #0003511; Hrs: 8.0 (General)

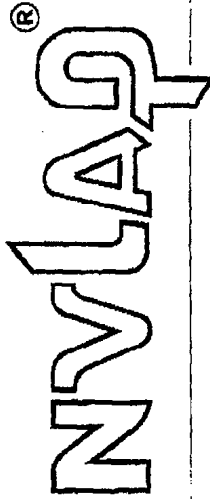
ABIH: CM Pgs 1-9; Full Day Inspection/MP Ref

FBPR ARCH: #1790; Full Day INS/MP Ref; Course #AR.04.318A (0007371); Hours: 8.0 (Intermediate)

University of Florida TREEO Center • 3900 SW 63rd Boulevard • Gainesville, FL 32608-3800 • 352-392-9570 • www.treco.ufl.edu

William T. Engel, Jr., Ph.D.  
Director

United States Department of Commerce  
National Institute of Standards and Technology



## Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101151-0

**EMSL Analytical, Inc.**  
Orlando, FL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

### **BULK ASBESTOS FIBER ANALYSIS**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

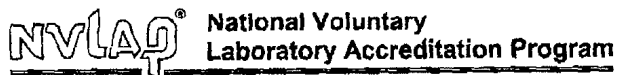


2008-07-01 through 2009-06-30

Effective dates

*Dolly S. Brueser*  
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-08-13)



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

EMSL Analytical, Inc.  
5125 Adanson Street, Suite 900  
Orlando, FL 32804  
Dr. Blanca Cortes  
Phone: 407-599-5887 Fax: 407-599-9063  
E-Mail: bcortes@emsl.com  
URL: <http://www.emsl.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 101151-0**

***NVLAP Code Designation / Description***

18/A01 EPA-600/M4-82-020; Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30

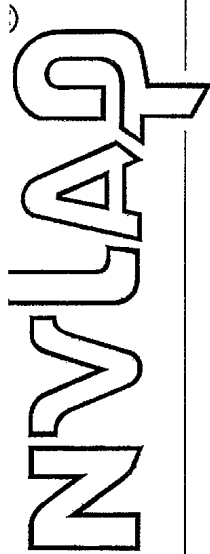
*Effective dates*

Page 1 of 1

*Debra J. Bruce*  
For the National Institute of Standards and Technology

NVLAP-01S (REV. 2008-05-19)





## Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101165-0

**International Asbestos Testing Laboratories**  
Mt. Laurel, NJ

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).*

2008-07-01 through 2009-06-30

Effective dates



*Jelly S. Buce*  
For the National Institute of Standards and Technology



National Voluntary  
Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

International Asbestos Testing Laboratories

9000 Commerce Parkway

Suite B

Mt. Laurel, NJ 08054

Mr. Frank E. Ehrenfeld, III

Phone: 856-231-9449 Fax: 856-231-9818

E-Mail: [frankehrenfeld@iatl.com](mailto:frankehrenfeld@iatl.com)

URL: <http://www.iatl.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101165-0

*NVLAP Code Designation / Description*

18/A01

EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30

*Effective dates*

Page 1 of 1

*Sally S. Bruce*

*For the National Institute of Standards and Technology*

NVLAP-01S (REV. 2005-05-19)

## **SECTION 6**

### **ASBESTOS OPERATIONS AND MAINTENANCE (O&M) PLAN AND RESPONSE ACTION**

**O & M PLAN AND RESPONSE ACTION  
FOR  
BRIDGE 150049  
SR 679 – PINELLAS BAYWAY STRUCTURE E BRIDGE  
OVER BOCA CIEGA BAY  
ST. PETERSBURG, PINELLAS COUNTY, FL  
TO BE RENOVATED**

Any regulated asbestos-containing material (RACM), must be abated in accordance with 40 CFR, Subpart M, Part 61.145, as stated in abatement specifications required by Chapter 255, FS and OSHA Standard 1926.58 for the construction industry, prior to demolition or renovation. RACM is identified as follows:

- Friable ACM
- Category I nonfriable ACM that has become friable
- Category I nonfriable ACM that will be or has been subject to sanding, grinding, cutting, or abrading
- Category II nonfriable ACM that has a high probability of becoming, or has become, crumbled, pulverized, or reduced to powder by the forces expected to act on such material

No regulated asbestos-containing materials were found at Bridge 150049, SR 679 – Pinellas Bayway Structure E Bridge, in the areas identified by the client for inspection. Renovation or demolition can proceed without any asbestos containment engineering controls. No O & M or response actions are required.

This report is the result of a limited investigation of the referenced bridge, and every attempt has been made to discover and inventory all asbestos-containing building materials (ACBM) in the structure. However, due to the limited and nondestructive nature of the inspection, it is possible that other concealed and inaccessible suspect materials may exist. Should any additional suspect ACM be uncovered during renovation or demolition which are not listed in this report, then those materials should be sampled and submitted for analysis.

**End of Work Plan**



## **DISCLAIMER**

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

This report is the result of an extensive investigation of the above-referenced structures using state of the art techniques, and every attempt has been made to discover and inventory all ACBM in the structures. However, due to the limited and nondestructive nature of the investigation, there is no guarantee that all ACBM within the structures has been identified. Should any additional suspect materials be uncovered during a renovation or demolition that are not listed in this survey, then those materials should be sampled and submitted for analysis.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.