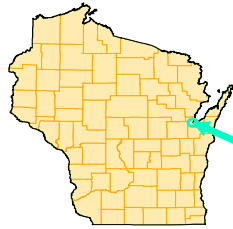


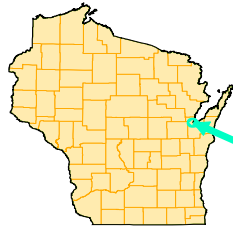
WisDOT Project 1133-10-00
 Structure B-05-0064
 US HWY 41 southbound
 over Velp Avenue
 Brown County, Wisconsin
 Inspected 8-10-07
 Jeffrey S. Carlson, Inspector
 License # All-3420
 STS Consultants, LTD



Asbestos Containing Material (ACM) is present in this structure

Sample #	Description	Sample Location	Analytical Results and Method	Category I or II non-friable, friable asbestos, or	Total Amount of Material on Structure
B-05-0064-1A	Gray parapet wall caulk	West parapet wall	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-1B	Gray parapet wall caulk	West parapet wall	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-1C	Gray parapet wall caulk	West parapet wall	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-2A	Guard Rail Gasket	West parapet wall	2% chrysotile asbestos, PLM Method	Friable asbestos	40 ea @ 6" x 7" and 4 ea @ 7" x 18" or 48 x 42 square inches + 4 x 126 square inches x .00694444 = 15 square feet
B-05-0064-2B	Guard Rail Gasket	West parapet wall	See B-05-0064-2A	See B-05-0064-2A	See B-05-0064-2A
B-05-0064-2C	Guard Rail Gasket	West parapet wall	See B-05-0064-2A	See B-05-0064-2A	See B-05-0064-2A
B-05-0064-3A	Black tar on deck	Deck	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-3B	Black tar on deck	Deck	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-3C	Black tar on deck	Deck	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-4A	Black paint/tar	Under the structure	100% non-fibrous, PLM Method	No ACM	Not Applicable

WisDOT Project 1133-10-00
 Structure B-05-0064
 US HWY 41 southbound
 over Velp Avenue
 Brown County, Wisconsin
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 Jeffrey S. Carlson, Inspector
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 STS Consultants, LTD



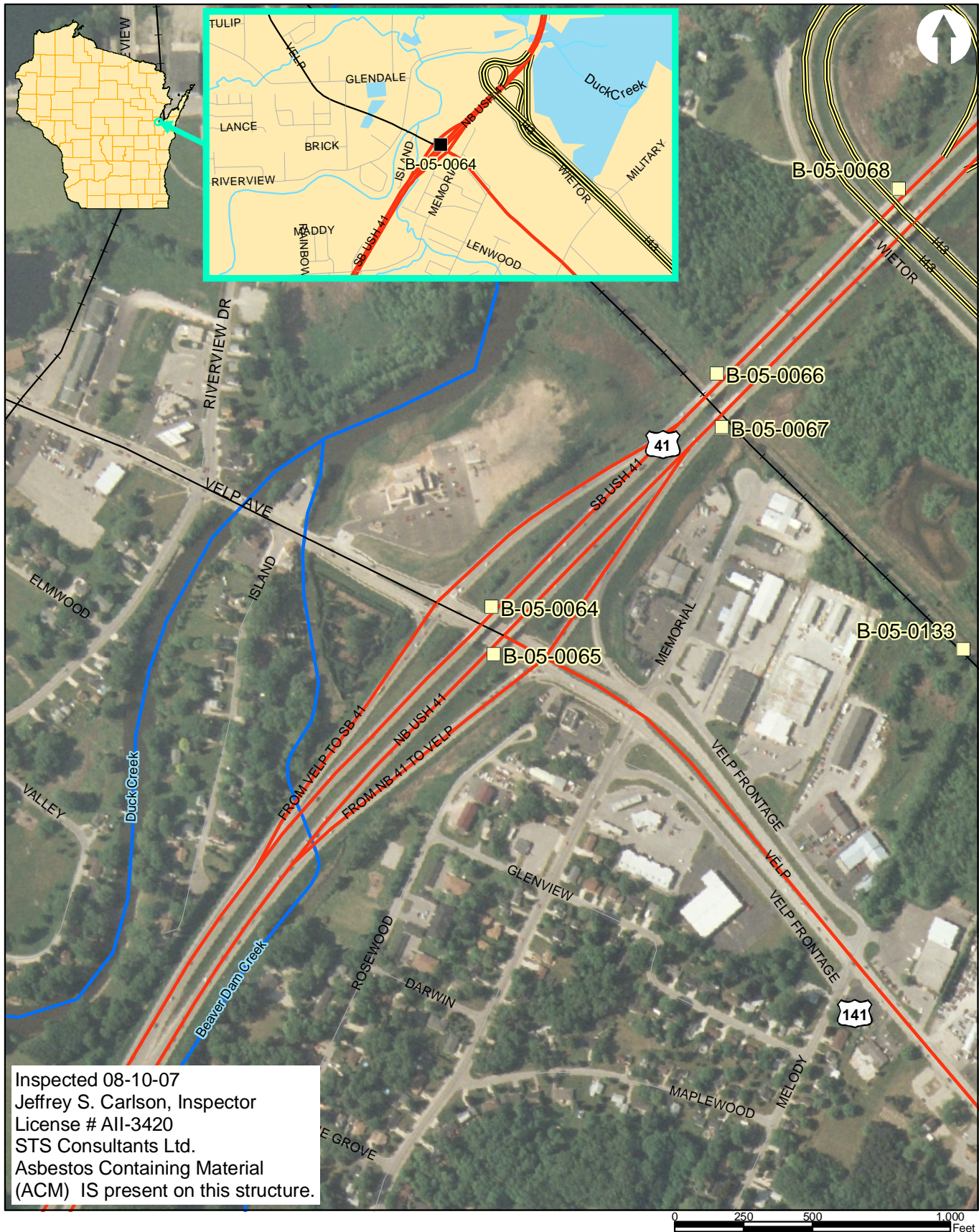
Asbestos Containing Material (ACM) is present in this structure

Sample #	Description	Sample Location	Analytical Results and Method	Category I or II non-friable, friable asbestos, or	Total Amount of Material on Structure
B-05-0064-4B	Black paint/tar	Under the structure	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-5-0064-4C	Black paint/tar	Under the structure	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-5-0064-5A	Sivler paint	Under the structure	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-5-0064-5B	Sivler paint	Under the structure	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064 - 5C	Sivler paint	Under the structure	100% non-fibrous, PLM Method	No ACM	Not Applicable
B-05-0064 - 6A	Brown fibrous gasket	Under the structure	70% cellulose, 30% non fibrous, PLM Method	No ACM	Not Applicable
B-05-0064 - 6B	Brown fibrous gasket	Under the structure	70% cellulose, 30% non fibrous, PLM Method	No ACM	Not Applicable
B-05-0064-6C	Brown fibrous gasket	Under the structure	70% cellulose, 30% non fibrous, PLM Method	No ACM	Not Applicable

All samples were collected following WisDOT standard sampling procedures for bridge inspections found in FDM Procedure 21-35-40.

Because the identified caulking (good condition) and gasket material (poor condition) could become comingled in demolition debris the material is regulated and should be removed prior to disturbance.

Because the structure is scheduled for replacement and the material will likely be disturbed, Standard Special Provision (STSP) 203-005 requiring the abatement of the ACM under the bridge construction contract bid item 203.0210.s. should be incorporated into the Special Provision.



Inspected 08-10-07
 Jeffrey S. Carlson, Inspector
 License # All-3420
 STS Consultants Ltd.
 Asbestos Containing Material
 (ACM) IS present on this structure.



STS Consultants, Ltd.

STS Consultants, Ltd.
 Consulting Engineers
 1035 Kepler Drive
 Green Bay, WI 54311
 920.468.1978

WisDOT Project 1133-10-00
 Structure B-05-0064
 US HWY 41 Southbound over Velp Avenue
 Brown County, WI

DESIGNED BY	ATV	09-12-07
DRAWN BY	ATV	09-12-07
APPROVED BY	PMG	09-12-07
FILE	SCALE As Shown	
STS PROJECT NO.	FIGURE NO.	
200605948	B-05-0064	

August 20, 2007

On August 10, 2007, STS Consultants, Ltd. (STS) conducted a survey of suspected asbestos containing materials (ACM) at the structure located on United States Highway 41 spanning Velp Avenue in Brown County, Wisconsin (B-05-0064). Mr. Jeffrey S. Carlson, Wisconsin Asbestos Inspector Number AII-3420 conducted the survey. A gray gasket material located between the guard rail base plate and the top of the parapet walls contains 2% chrysotile asbestos. The material is located on the east and west sides of the structure. The gray gasket material was in poor condition, and is classified as a friable asbestos containing material. Standard Special Provision (STSP) 203-005 requiring the abatement of the ACM under the bridge construction contract bid item 203.0210.s. should be incorporated into the Special Provisions.

The structure is scheduled for replacement in 2012/2013.

Traffic control to conduct the survey was provided by Mega Rentals, Inc., of Green Bay, Wisconsin.

The survey of the structure consisted of observation of the deck, rails, parapet walls, and underside of the structure to identify materials suspected of containing asbestos. The identified materials were bulk sampled in accordance with the WisDOT Facilities Development Manual Standard Sampling Procedure 21-35-45, the Environmental Protection Agency's Asbestos Hazardous Emergency Response Act (AHERA) 40 CFR 763, Subpart E, NR 447, and the Occupational Safety and Health Administration (OSHA) Standard 1926.1101(k)(5)(ii)(b), Communication of Hazards.

The bulk samples were submitted to Environmental Hazards Services, LLC, (EHS) of Richmond, Virginia, a National Volunteer Laboratory Accreditation Program laboratory, for bulk asbestos sample analysis. Analysis was conducted using the EPA-recommended "Polarized Light Microscopy with Dispersion Staining Method."

Bulk Sample(s) B-05-0064 – 2A – 2C, guard rail base plate gasket material, also located on the north and south sides of the structure between the guard rail post base and the top of the parapet wall of the structure contain 2% chrysotile asbestos. The material is damaged and is considered friable asbestos containing material.

Copies of laboratory analytical reports (Bulk Asbestos Sample Analysis Summary), Chain of Custody forms, and general plan are attached.

Attachments:

- B-05-0064 Report Table
- B-05-0064 Map
- B-05-0064 Survey Letter
- B-05-0064 General Plan
- B-05-0064 Photo Log
- B-05-0064 Bulk Asbestos Sample Analysis Summary

SECTION	STATE	FEDERAL	CIVILIAN	PROJECT	NUMBER	SHEET
5.1	2.5	23.18	4	FOR-5(A)	1151-2 74	8 51

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 BEVEL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SHOWN OR NOTED.
 JOINT FILLER SHALL CONFORM TO A S.H.O. DESIGNATION M33 OR M215.
 HOT-POURED ELASTIC TYPE JOINT SEALER SHALL CONFORM TO A.S.T.M. DESIGNATION, D1190.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING TO THE EXTENT SHOWN ON THIS SHEET AND IN THE ABUTMENT DETAILS.

THE UPPER LIMIT FOR "EXCAVATION FOR STRUCTURES" SHALL BE THE EXISTING GROUND LINE AT THE PIER AND AS SHOWN ON X37449 AT THE ABUTMENTS. THE ESTIMATED QUANTITY FOR "EXCAVATION FOR STRUCTURES" IS COMPUTED FROM THESE LIMITS.

DESIGN DATA

LIVE LOAD HS20

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY, GRADE "AA".....f' = 1,400 p.s.i.
 BAR STEEL REINFORCEMENT.....f' = 20,000 p.s.i.

PRESTRESSED GIRDER
 CONCRETE MASONRY.....f' = 6,000 p.s.i.
 STRANDS, 1/2" DIA. WITH ULTIMATE
 TENSILE STRENGTH OF.....270,000 p.s.i.

FOUNDATION DATA

PLACE ABUTMENTS ON 10B42 STEEL PILING DRIVEN TO 40 TONS/PILE MINIMUM BEARING. BODY PILE LENGTH 60 FEET AND WING PILE LENGTH 45 FEET.
 PLACE PIER ON 10B42 STEEL PILING DRIVEN TO 55 TONS/PILE MINIMUM BEARING. PILE LENGTH 50 FEET.

TOTAL ESTIMATED QUANTITIES

BID ITEM	UNIT	W. ABUT.	PIER	E. ABUT.	TOTAL
EXCAVATION FOR STRUCTURES	C.Y.	120	50	120	290
GRANULAR BACKFILL	C.Y.	125	—	125	250
CONCRETE MASONRY	C.Y.	195.9	98.0	97.5	491.7
PRESTRESSED GIRDER TYPE 1	L.F.	754	—	754	1,508
BAR STEEL REINFORCEMENT	L.B.	64,420	4,410	4,420	81,250
STRUCTURAL CARBON STEEL	L.B.	3,860	—	—	3,860
STRUCTURAL LOW ALLOY STEEL	L.B.	14,550	—	—	14,550
BEARING PADS	S.F.	80	—	—	80
BEARING PADS, ELASTOMERIC	S.F.	18	—	—	18
STEEL PILING DELIVERED AND DRIVEN, 10" BP 42#	L.F.	910	650	910	2,470
SLOPE PAVING CONCRETE	S.Y.	120	—	140	260
TUBULAR RAILING, TYPE "G"	L.F.	363	—	—	363
NON-BID ITEM					
3/4" ALUMINUM OR ZINC PLATE	S.F.	21	—	—	21
FILLER	SIZE	16	—	—	16
6" RUBBER WATERSTOP	L.F.	82	—	—	82

LIST OF DRAWINGS

1. GENERAL PLAN	X37441
2. SUPERSTRUCTURE	X37442
3. SUPERSTRUCTURE	X37443
4. 45° PRESTRESSED GIRDER DETAILS	X37444
5. DETAILS FOR TYPE "G" TUBULAR	X37445
6. ALUMINUM AND STEEL RAILING	X37446
7. EXPANSION JOINT	X37447
8. BEARING DETAILS	X37448
9. WEST ABUTMENT	X37449
10. PIER	X37450
11. EAST ABUTMENT	X37451
12. BILL OF BARS	X37452
13. SUBSURFACE EXPLORATION	X37453
14. SUBSURFACE EXPLORATION	X37454

AS BUILT PLAN

DATE 2-14 BY W.J.S.

STATE HIGHWAY COMMISSION OF WISCONSIN	
GENERAL PLAN	
BY BROWN	FOR HOWARD
SECTION 15	NUMBER 208
DESIGN BY AASHO '69	LOANER HS20 100' 1969
DATE 5/23/68	BY W.J.S.
APPROVED	DATE 4-12-70
STRUCTURE B - 5 - 64	
SHEET 1 OF 14	

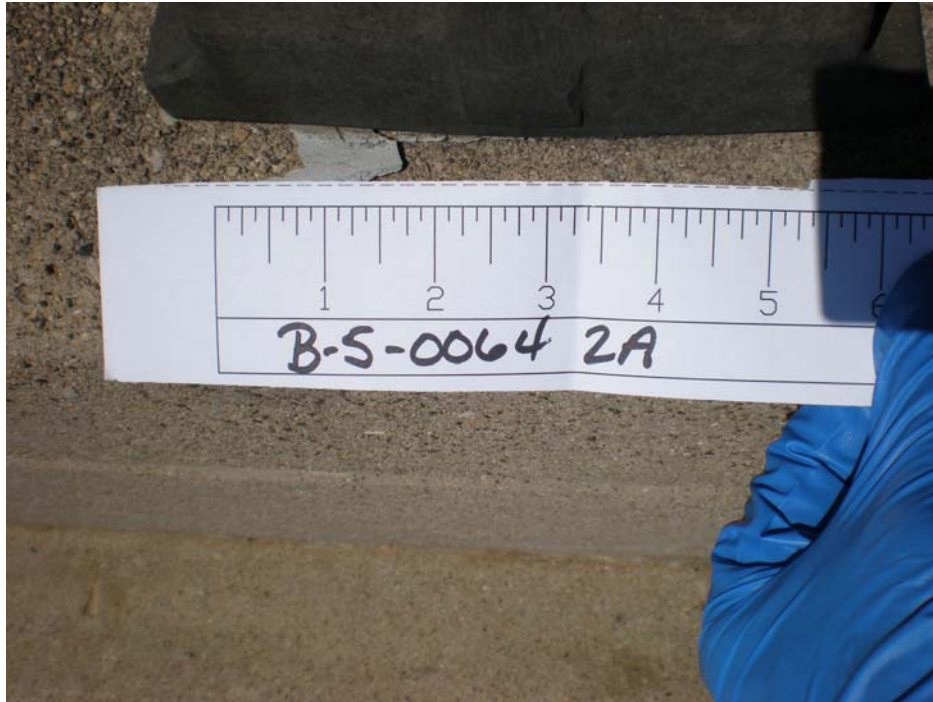
General Plan



Identification plate for Structure B-05-0064.



Gray caulk located on the parapet wall joint of Structure B-05-0064.



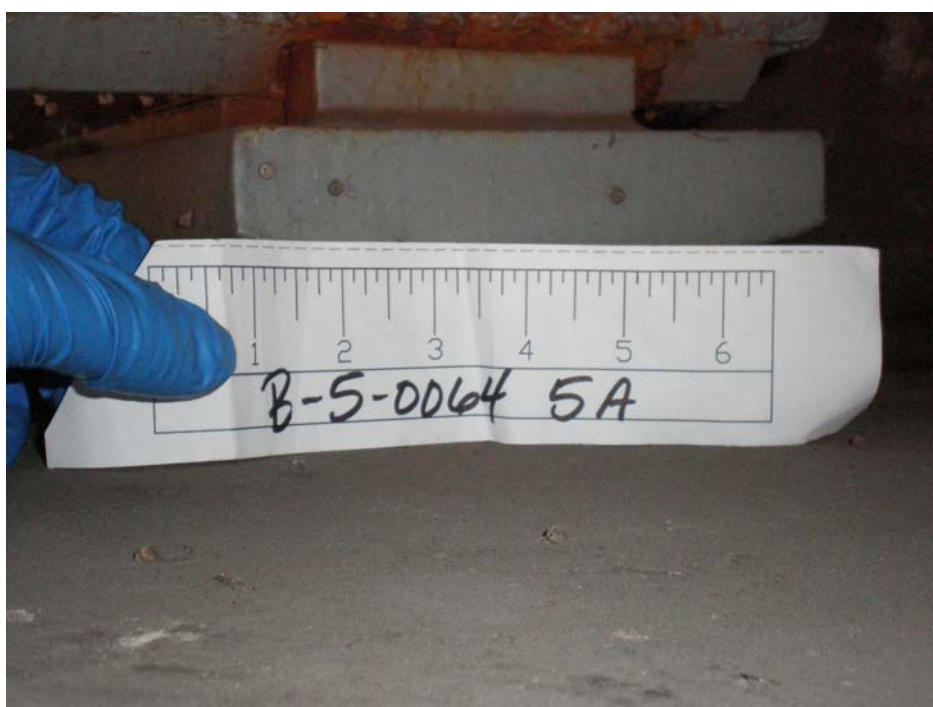
Guard rail base plate gasket material located on the parapet walls of Structure B-05-0064.



Black tar located on the deck of Structure B-05-0064.



Black paint/tar located on the underside of Structure B-05-0064.



Silver paint located on the underside of Structure B-05-0064.



Brown fibrous gasket located beneath bearing pad under structure B-05-0064.



Looking to the south at the west side of Structure B-05-0064.



Looking to the south at Structure B-05-0064.

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: STS Consultants
1035 Kelpner Drive
Green Bay, WI 54311-8320

DATE OF RECEIPT: 20 Aug 2007
DATE OF ANALYSIS: 20 Aug 2007
DATE OF REPORT: 21 Aug 2007

CLIENT NUMBER: 51-3141 A
EHS PROJECT #: 2007-08-2216
PROJECT: 200605948

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
01	B-5-0064-1A/ Gray Vinyl-Like	NAD	100% Non-Fibrous
02	B-5-0064-1B/ Gray Vinyl-Like	NAD	100% Non-Fibrous
03	B-5-0064-1C/ Gray Vinyl-Like	NAD	100% Non-Fibrous
04	B-5-0064-2A/ Gray Brittle	2% Chrysotile 2% Total Asbestos	98% Non-Fibrous
05	B-5-0064-2B/	DID NOT ANALYZE	
06	B-5-0064-2C/	DID NOT ANALYZE	
07	B-5-0064-3A/ Black Tar-Like; Gray Cementitious	NAD	100% Non-Fibrous
08	B-5-0064-3B/ Black Tar-Like	NAD	100% Non-Fibrous
09	B-5-0064-3C/ Black Tar-Like; Gray Cementitious	NAD	100% Non-Fibrous
10	B-5-0064-4A/ Black Brittle	NAD	100% Non-Fibrous
11	B-5-0064-4B/ Brown Cementitious; Black Brittle	NAD	100% Non-Fibrous
12	B-5-0064-4C/ Brown Cementitious; Black Brittle	NAD	100% Non-Fibrous
13	B-5-0064-5A/ Gray Vinyl; Silver Paint; Brown Brittle	NAD	100% Non-Fibrous

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 51-3141 A
EHS PROJECT #: 2007-08-2216
PROJECT: 200605948

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
14	B-5-0064-5B/ Silver Paint; Gray Vinyl; Brown Brittle	NAD	100% Non-Fibrous
15	B-5-0064-5C/ Gray Vinyl; Silver Paint	NAD	100% Non-Fibrous
16	B-5-0064-6A/ Black Tar-Like; Brown Rubbery; Brown Fib.	NAD	70% Cellulose 30% Non-Fibrous
17	B-5-0064-6B/ Black Tar-Like; Brown Rubbery; Brown Fib.	NAD	70% Cellulose 30% Non-Fibrous
18	B-5-0064-6C/ Black Tar-Like; Brown Fib.; Brown Vinyl	NAD	70% Cellulose 30% Non-Fibrous

QC SAMPLE: M2-1991-1


QC BLANK: SRM 1866 Fiberglass

REPORTING LIMIT: 1% Asbestos

METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 *

ANALYST: Timothy Harris

Reviewed By Authorized Signatory:


Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND NAD = no asbestos detected
SCF = suspected ceramic fibers

plm1.dot/07MAR2006/REV2/TE

18 p1m

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

EHs 2007-08-2216

CHAIN OF CUSTODY FORM

Company Name: STS Consultants
 Address: 1035 Kepler Drive
 City, State, Zip: Green Bay, Wisconsin 54311
 EHS Client Account #: 51-3141
 Phone #: (920) 468-1978
 P.O. #: (920) 468-3312

Date: 8/10/07
 Contact Name: Jeff Carlson
 Sampler Name: Jeff Carlson
 Project #: 200605948

***Stop at First Positive Result for Homogeneous Samples

Sample Number	Sample Date & Time	Asbestos						Lead						Other Metals (Specify metals below)				Indoor Air Quality				Particulate: Total Nuisance (NIOSH 0500) Respirable (NIOSH 0600)		Comments
		Bulk ID by PLM	(PCM) Fiber Count	PLM Point Count	PLM Gravimetric	TEM AHERA (Air)	TEM Chatfield (Bulk)	Air	Paint (%)	Paint (PPM)	Paint (mg/cm ²)	Soil	Wipe * (See Note)	TCLP (Pb)	Waste Water	TCLP RCRA 8	Welding Fume	Toxic Metal Profile	Biocassette	Slide	Surface Swab	Surface Tape	Bulk	
B-5-0064 1A	8/10	X																						gray caulk 1 wall
1B																								
1C																								
2A																								
2B																								
2C																								
3A																								
3B																								
3C																								

* Do wipe samples submitted meet ASTM E1792 requirements? Yes ☒ No ☐

Released by: Jeff Carlson
 Received by: K Tyler
 Released by:
 Received by:

Signature: Jeff Carlson
 Signature: K Tyler
 Signature:
 Signature:

Date/Time: 8/10/07
 Date/Time: 8/22/07 @ 1000
 Date/Time:
 Date/Time:

CHAIN OF CUSTODY FORM

Company Name: STS Consultants
Address: 1035 Kepler Drive
City, State, Zip: Green Bay, Wisconsin 54311
EHS Client Account #: 51-3141
Phone #: (920) 468-1978
P.O. #:

Date: 8/10/07
Contact Name: Jeff Carlson
Sampler Name: Jeff Carlson
Project #: 200605948

Stop at First Positive Result for Homogeneous Samples

Fax #: (920) 468-3312

Sample Number	Sample Date & Time	Asbestos						Lead						Other Metals (Specify metals below)				Indoor Air Quality				Particulate: Total Nuisance (NIOSH 0500) Respirable (NIOSH 0600)		Comments
		Bulk ID by PLM	(PCM) Fiber Count	PLM Point Count	PLM Gravimetric	TEM AHERA (Air)	TEM Chatfield (Bulk)	Air	Paint (%)	Paint (PPM)	Paint (mg/cm ²)	Soil	Wipe * (See Note)	TCLP (Pb)	Waste Water	TCLP RCRA 8	Welding Fume	Toxic Metal Profile	Biocassette	Slide	Surface Swab	Surface Tape	Bulk	
B-6-0044A	8/10	X																						
4B																								
4C																								
5A28																								
5B28																								
5C28																								
6A																								
6B																								
6C																								

* Do wipe samples submitted meet ASTM E1792 requirements? Yes ☐ No ☐

Released by: Jeff Carlson
Received by: Jeff Carlson
Released by: Jeff Carlson
Received by: Jeff Carlson

Date/Time: 8/10/07
Date/Time: 8/20/07 @ 10:00 AM
Date/Time:
Date/Time:

Comments: BLACK Paint / Fine
 Silver Paint
 Brown fibrous basket
 Under putab concrete
 Support pads