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ASBESTOS-CONTAINING MATERIALS SURVEY

**3M EAST SIDE PLANT
BUILDING 41
885 EAST 7TH STREET
ST. PAUL, MINNESOTA**

IHSC PROJECT NUMBER M07-493

Prepared by:

INDUSTRIAL HYGIENE SERVICES CORPORATION

**4205 White Bear Parkway, Suite 500
Vadnais Heights, Minnesota, MN 55110
(651) 766-9811**

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ASBESTOS-CONTAINING MATERIALS SURVEY

**3M EAST SIDE PLANT - BUILDING 41
885 EAST 7TH STREET
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1.0 EXECUTIVE SUMMARY

Industrial Hygiene Services Corporation (IHSC) conducted a building inspection for accessible asbestos-containing materials (ACM) in Building 41 at the 3M East Side Plant at 885 East 7th Street, St. Paul, Minnesota. The inspection was performed to identify and quantify accessible materials that are known to contain, or are suspect of containing asbestos. The inspection did not include destructive sampling techniques and only accessible building materials were evaluated. Mr. Dan Meier, 3M Installation Services, requested IHSC's services.

Suspect materials identified and sampled included: various pipe insulation, various pipe fittings, plaster, sheetrock and joint compound, various ceiling tiles and adhesives, various floor tiles and adhesives, various baseboard adhesives, vibration joints, and window glazing.

No materials were inferred from previous surveys or assumed to be asbestos containing. Materials not specifically referred to in this report should be presumed to be ACM until sampling and analysis proves them to be otherwise.

Details of the survey findings including location, material identification, physical identification, quantities and sample results are presented on the enclosed tables in Appendix A, Asbestos Material Tables. Drawings of sample locations are contained in Appendix B.

2.0 INTRODUCTION

Industrial Hygiene Services Corporation (IHSC) was contracted to perform an inspection for known and suspect ACM at 885 East 7th Street, St. Paul, Minnesota. The purpose of the survey was to define suspect asbestos-containing materials at Building 41 of the 3M East Side Plant.

The survey and sampling was performed to identify and estimate the quantity of ACM at Building 41. The inspection was performed using nondestructive sampling techniques. Accessible interior building materials and components were inspected. Tom Sogard, John Martin, Karen Malkowski, Terry Johnson, Dave Plourde, Tim Schmit and Matt Lenz of IHSC performed the building survey between June 22 and July 2, 2007. IHSC collected approximately sixty building material samples. IHSC sampled the various pipe insulation, various pipe fittings, plaster, sheetrock and joint compound, various ceiling tiles and adhesives, various floor tiles and

adhesives, various baseboard adhesives, vibration joints, and window glazing. Results can be found in the enclosed tables in Appendix A, Asbestos Material Tables and in Appendix C, Asbestos Analytical Results.

The roofing materials were not sampled at the time of the inspection. Roofing materials should be assumed to contain asbestos until sampling verifies otherwise.

3.0 ASBESTOS BULK SAMPLE RESULTS

Representative bulk samples of suspect materials were collected throughout Building 41. Materials found to contain asbestos included:

- Various Pipe Insulation
- Various Pipe Fitting Insulation
- 9"x9" Tan with Brown and White Floor Tile
- White Cloth Duct Vibration Joint
- White Window Glazing
- Grey Window Glazing

The materials above were found to contain asbestos using Environmental Protection Agency (EPA) definitions. Materials not specifically referred to in this report should be presumed to be ACM until sampling and analysis proves them to be otherwise.

Locations, materials identification, physical identification, quantities, and analytical results are summarized in Appendix A, Asbestos Material Tables. Sample locations are summarized in Appendix B, Floor Plans of Sample Locations.

4.0 METHODOLOGY

Suspect ACM was categorized into three (3) principle material groupings: surfacing material, (sprayed-on or troweled-on material) thermal system insulation, or miscellaneous materials (e.g. flooring, ceiling tiles, wallboards).

Suspect ACM was further categorized into homogeneous-material types. A homogeneous-material type is defined as a suspect ACM that has the same visual appearance (same color, texture, and pattern) and appeared to be installed during the same general period of time. Materials are also categorized as friable or non-friable; friable materials are those that can be crushed, pulverized, or reduced to a powder by hand pressure when dry.

IHSC personnel who performed the building survey and sampling have completed, at a minimum, an EPA-approved training course in Asbestos Survey and the applicable refresher training courses. Copies of the asbestos inspector certifications are enclosed in Appendix D.

5.0 LIMITATIONS OF ASBESTOS SURVEY/REMARKS

Any discussion or recommendations contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted industrial hygiene practices at this time and location. Other than this, no guarantee is implied or intended.

Every effort was made to completely identify suspect materials using non-destructive techniques at Building 41, 885 East 7th Street, St. Paul, Minnesota. Evaluation was based on past experience with similar materials, similar buildings, similar budgeting, and time constraints. Inspection of these areas may be necessary for renovation or demolition. IHSC maintains that materials observed and quantified are factual and accurate.

This report was prepared by

INDUSTRIAL HYGIENE SERVICES CORPORATION



Nicholas S. Mueller

Date: 8/30/07

Project Manager

Minnesota Department of Health Asbestos Inspector Card Number AI3806

APPENDIX A
ASBESTOS MATERIAL TABLES

Building Name: Building 41, 3M Main Plant

IHSC Project No.: M07-493

Survey Date: June 8, 2007



Location	Material Identification	Physical ID	Quantity	Units	Sample #	Results
Basement						
Mechanical Room 1	1-4" Pipe Insulation	White Fibrous	3	Linear Feet	1*	10% Chrysotile 40% Amosite
Mechanical Room 2	Duct Vibration Joint	White Cloth	6	Linear Feet	22A	25% Chrysotile
Mechanical Room 3	No Suspect Materials Observed					
Mechanical Storage Room	No Suspect Materials Observed					
Coat Room	2' x 2' Ceiling Tile	Pinhole Fissure	48	Square Feet	14*	None Detected
	Sheetrock, Tape, Compound	Wall	224	Square Feet	8A	None Detected
	Plaster	Wall	48	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	28	Linear Feet	20*	None Detected
Mechanical Room 4	Duct Vibration Joint	White Canvas	42	Linear Feet	23A	None Detected
Cafeteria/ Break Room	2' x 2' Ceiling Tile	Pinhole Fissure	345	Square Feet	14A	None Detected
	Sheetrock, Tape, Compound	Wall	608	Square Feet	8*	None Detected
	Base Board Adhesive	Brown	46	Linear Feet	20*	None Detected
	Sink Undercoat	Black	1	Each	4**	None Detected
Smoking Room	2' x 2' Ceiling Tile	Pinhole Fissure	100	Square Feet	14*	None Detected

* = This result is inferred as consistent with an analyzed sample of the same material from another area.

Location	Material Identification	Physical ID	Quantity	Units	Sample #	Results
Smoking Room	Sheetrock, Tape, Compound	Wall	320	Square Feet	8*	None Detected
	Base Board Adhesive	Brown	40	Linear Feet	20*	None Detected
Conference Room	2' x 2' Ceiling Tile	Pinhole Fissure	490	Square Feet	14*	None Detected
	Sheetrock, Tape, Compound	Wall	784	Square Feet	8*	None Detected
	Base Board Adhesive	Brown	98	Linear Feet	20*	None Detected
Conference Room Storage	Sheetrock, Tape, Compound	Wall	256	Square Feet	8*	None Detected
	Base Board Adhesive	Brown	32	Linear Feet	20*	None Detected
Mechanical Room 5	Sheetrock, Tape, Compound	Wall	468	Square Feet	8*	None Detected
	Plaster	Wall and Ceiling	108	Square Feet	7*	None Detected
	Floor Tile Residue	Black	38	Square Feet	27A	None Detected
Women's Restroom	2' x 2' Ceiling Tile	Pinhole Fissure	108	Square Feet	14*	None Detected
	Sheetrock, Tape, Compound	Wall	304	Square Feet	8*	None Detected
	Plaster	Wall and Ceiling	444	Square Feet	7A	None Detected
Office 1	2' x 2' Ceiling Tile	Pinhole Fissure	70	Square Feet	14*	None Detected
	Sheetrock, Tape, Compound	Wall	266	Square Feet	8*	None Detected
	Plaster	Wall	72	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	44	Linear Feet	20*	None Detected
	Remnant Ceiling Tile		70	Square Feet	11A	None Detected
	Ceiling Tile Adhesive	Brown	70	Square Feet	12A	None Detected
Office 2	2' x 2' Ceiling Tile	Pinhole Fissure	104	Square Feet	14*	None Detected
	Sheetrock, Tape, Compound	Wall	464	Square Feet	8*	None Detected
	Plaster	Wall and Ceiling	24	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	58	Linear Feet	20*	None Detected
	Remnant Ceiling Tile		104	Square Feet	11*	None Detected
	Ceiling Tile Adhesive	Brown	104	Square Feet	12*	None Detected
Office 3	2' x 4' Ceiling Tile	Pinhole Fissure	76	Square Feet	14*	None Detected
	Sheetrock, Tape, Compound	Wall	336	Square Feet	8*	None Detected
	Plaster	Wall	84	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	54	Linear Feet	20*	None Detected

* = This result is inferred as consistent with an analyzed sample of the same material from another area.

Location	Material Identification	Physical ID	Quantity	Units	Sample #	Results
Office 4	Plaster	Wall and Ceiling	888	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	68	Linear Feet	20*	None Detected
	12" x 12" Floor Tile	Cream	208	Square Feet	18*	None Detected
	Floor Tile Adhesive	Yellow	208	Square Feet	19*	None Detected
Communications Room	Plaster	Wall and Ceiling	312	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	54	Linear Feet	20A	None Detected
	12" x 12" Floor Tile	Cream	140	Square Feet	18B	None Detected
	Floor Tile Adhesive	Yellow	140	Square Feet	19B	None Detected
	Remnant Ceiling Tile	Brown	40	Square Feet	11*	None Detected
	Ceiling Tile Adhesive	Wall	40	Square Feet	12*	None Detected
	Sheetrock, Tape, Compound	Felt	160	Square Feet	8*	None Detected
	1-4" Pipe Insulation	White Fibrous	10	Linear Feet	5A	2% Chrysotile (35% in tarpaper)
	1-4" Pipe Fitting Insulation on Felt		10	Each	6A	30% Chrysotile 30% Amosite
	Men's Restroom	2' x 2' Ceiling Tile	Pinhole Fissure	90	Square Feet	14*
Sheetrock, Tape, Compound		Wall	304	Square Feet	8*	None Detected
Plaster		Wall	152	Square Feet	7*	None Detected
Pipe Chase	Plaster	Wall and Ceiling	236	Square Feet	7*	None Detected
Vending Hallway	Plaster	Wall and Ceiling	600	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	106	Linear Feet	20*	None Detected
	12" x 12" Floor Tile	Cream	24	Square Feet	18*	None Detected
	Floor Tile Adhesive	Yellow	24	Square Feet	19*	None Detected
	Sheetrock, Tape, Compound	Wall	496	Square Feet	8*	None Detected
	2' x 2' Ceiling Tile	Pinhole Fissure	187	Square Feet	14C	None Detected
Open Area	2' x 2' Ceiling Tile	Pinhole Fissure	2068	Square Feet	14*	None Detected
	Plaster	Wall	1104	Square Feet	7B	None Detected
	Base Board Adhesive	Brown	232	Linear Feet	20*	None Detected
	Remnant Ceiling Tile	Brown	2068	Square Feet	11*	None Detected
	Ceiling Tile Adhesive	Brown	2068	Square Feet	12*	None Detected

* = This result is inferred as consistent with an analyzed sample of the same material from another area.

Location	Material Identification	Physical ID	Quantity	Units	Sample #	Results
Open Area	Window Glazings	Thin White	4	Each	24A	2% Chrysotile
Wall Chase 1	1-4" Pipe Insulation	White Fibrous	2	Linear Feet	1*	10% Chrysotile 40% Amosite
Wall Chase 2	No Suspect Materials Observed					
Wall Chase 3	No Suspect Materials Observed					
Drop Off Room	12"x12" Ceiling Tile	Fissured	120	Square Feet	9*	None Detected
	Ceiling Tile Adhesive	Brown	120	Square Feet	10*	None Detected
	Plaster	Wall	396	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	44	Linear Feet	20*	None Detected
	Window Glazings	Grey	1	Each	26A	2% Chrysotile

1st Floor

Storage Room 1	Plaster	Wall and Ceiling	368	Square Feet	7C	None Detected
	Base Board Adhesive	Brown	36	Linear Feet	20*	None Detected
	12" x 12" Floor Tile	Cream	80	Square Feet	18*	None Detected
	Floor Tile Adhesive	Yellow	80	Square Feet	19*	None Detected
Office 1	1.5' x 5' Ceiling Tile	Rough Pinhole	150	Square Feet	15A	None Detected
	Plaster	Wall	250	Square Feet	7*	None Detected
	Base Board Adhesive	Cream	50	Linear Feet	21A	None Detected
Office 2	1.5' x 5' Ceiling Tile	Rough Pinhole	75	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	132	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	60	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	414	Square Feet	8*	None Detected
Office 3	1.5' x 5' Ceiling Tile	Rough Pinhole	144	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	144	Square Feet	7*	None Detected

* = This result is inferred as consistent with an analyzed sample of the same material from another area.

Location	Material Identification	Physical ID	Quantity	Units	Sample #	Results
Office 3	Base Board Adhesive	Brown	36	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	360	Square Feet	8*	None Detected
Office 4	1.5' x 5' Ceiling Tile	Rough Pinhole	144	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	144	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	36	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	360	Square Feet	8*	None Detected
Office 5	1.5' x 5' Ceiling Tile	Rough Pinhole	144	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	144	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	36	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	440	Square Feet	8*	None Detected
Telephone Room	1.5' x 5' Ceiling Tile	Rough Pinhole	84	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	20	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	38	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	190	Square Feet	8*	None Detected
	12" x 12" Floor Tile	Cream	84	Square Feet	18C	None Detected
	Floor Tile Adhesive	Yellow	84	Square Feet	19C	None Detected
Storage Room 2	Plaster	Wall and Ceiling	694	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	62	Linear Feet	20*	None Detected
	12" x 12" Floor Tile	Cream	198	Square Feet	18*	None Detected
	Floor Tile Adhesive	Yellow	198	Square Feet	19*	None Detected
Men's Restroom	Plaster	Wall and Ceiling	48	Square Feet	7*	None Detected
	Sheetrock, Tape, Compound	Wall	180	Square Feet	8*	None Detected
	1-4" Pipe Insulation	White Fibrous	12	Linear Feet	1*	10% Chrysotile 40% Amosite
	1-4" Pipe Fitting Insulation on White Fibrous	White Fibrous	2	Each	2*	20% Chrysotile <1% Amosite
Janitor's Closet	Plaster	Wall	40	Square Feet	7*	None Detected
	Sheetrock, Tape, Compound	Wall	136	Square Feet	8*	None Detected
	1-4" Pipe Insulation	White Fibrous	10	Linear Feet	1*	10% Chrysotile 40% Amosite

* = This result is inferred as consistent with an analyzed sample of the same material from another area.

Location	Material Identification	Physical ID	Quantity	Units	Sample #	Results
Men's Handicap Restroom	Sheetrock, Tape, Compound	Wall	240	Square Feet	8*	None Detected
Storage Closet	Sheetrock, Tape, Compound	Wall	80	Square Feet	8*	None Detected
	Base Board Adhesive	Brown	18	Linear Feet	20*	None Detected
Office 6	2' x 2' Ceiling Tile	Rough Pinhole	256	Square Feet	13A	None Detected
	Sheetrock, Tape, Compound	Wall	40	Square Feet	8*	None Detected
	Base Board Adhesive	Brown	64	Linear Feet	20*	None Detected
Office 7	1.5' x 5' Ceiling Tile	Rough Pinhole	168	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	120	Square Feet	7*	None Detected
	Base Board Adhesive	Cream	44	Linear Feet	21*	None Detected
	Sheetrock, Tape, Compound	Wall	40	Square Feet	8C	None Detected
	1-4" Pipe Insulation	White Fibrous	5	Linear Feet	1*	10% Chrysothile
	1-4" Pipe Fitting Insulation on White Fibrous	White Fibrous	1	Each	2*	40% Amosite 20% Chrysothile <1% Amosite
Office 8	1.5' x 5' Ceiling Tile	Rough Pinhole	70	Square Feet	15*	None Detected
	Plaster	Wall and Ceiling	100	Square Feet	7*	None Detected
	Base Board Adhesive	Cream	40	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	300	Square Feet	8*	None Detected
Office 9	2' x 2' Ceiling Tile	Rough Pinhole	528	Square Feet	13*	None Detected
	12" x 12" Ceiling Tile	Fissured	528	Square Feet	9A	None Detected
	Ceiling Tile Adhesive	Brown	528	Square Feet	10A	None Detected
	Plaster	Wall and Ceiling	624	Square Feet	7*	None Detected
	Base Board Adhesive	Cream	92	Linear Feet	20*	None Detected
	Sheetrock, Tape, Compound	Wall	480	Square Feet	8*	None Detected
Office 10	1.5' x 5' Ceiling Tile	Rough Pinhole	100	Square Feet	15*	None Detected
	12" x 12" Ceiling Tile	Fissured	100	Square Feet	9*	None Detected
	Ceiling Tile Adhesive	Brown	100	Square Feet	10*	None Detected
	Plaster	Wall and Ceiling	200	Square Feet	7*	None Detected
	Base Board Adhesive	Brown	40	Linear Feet	20*	None Detected

* = This result is inferred as consistent with an analyzed sample of the same material from another area.