

EXECUTIVE SUMMARY – NAVAN MEMORIAL CENTRE



Photo 1: View of the Navan Memorial centre.
(March 4, 2008)

DST Consulting Engineers Inc. (DST) completed an asbestos survey of the Navan Memorial Centre (City of Ottawa facility number 7371), located at 1295 Colonial Road on March 4th, 2008. This two-storey building is approximately 3259 square metres (m²) based on City of Ottawa records. This building is currently being used as an arena and community hall.

DST has completed an asbestos survey of the subject facility to identify asbestos-containing materials (ACMs) within the building, and to provide recommendations for the management, repair or removal of identified ACMs. The survey meets the building owner's legal obligations to maintain a record of asbestos-containing materials, as required by Ontario Regulation (O. Reg.) 278/05 – *Designated Substance: Asbestos on Construction Projects and in Buildings and Repair Operations*. The laboratory certificates for the asbestos survey program are attached for reference, as applicable.

A detailed inventory of the ACMs surveyed for the subject building has been entered into an electronic assessment database. Only rooms and materials that were considered to contain asbestos are included in the database. This electronic assessment database outlines the

location, description, condition, action level, and type of asbestos encountered during the survey program.

Asbestos-containing materials were not identified at the subject facility.

ACMs may potentially exist within inaccessible areas including wall, ceiling, and floor cavities of the building. Should any previously unidentified suspect ACMs be encountered as part of future works, these materials are to be treated as ACMs and handled accordingly unless sampling proves otherwise.

CITY OF OTTAWA
 RPAM ASBESTOS MANAGEMENT PROGRAM
 FACILITY ACM DATASHEET
 APPENDIX "A"

FACILITY NAME		NAVAN MEMORIAL CENTRE							DISTRICT		PP-EAST		
REF NO	ROOM NO	ROOM NAME/DESCRIPTION	SYSTEM	COMPONENT	MATERIAL	ITEM	COVERING MATERIAL	ASBESTOS TYPE	CONDITION	ACCESSIBILITY	PRIORITY	STATUS	DATE
Notes:													
<p>CONDITION: GOOD - Completely encapsulated, no deterioration. FAIR - Minor damage or penetration or ACM that has never been covered. POOR - Original cover or jacket exposed and amount of missing material is moderate to severe. DEBRIS - Presence of fallen attached to its original component.</p> <p>ACCESSIBILITY: A - Areas of the building that are accessible to all building occupants (e.g. hallways, meeting rooms, hockey rinks, gymnasiums and public storage areas). B - Areas of the building that are accessible to Maintenance and Operations staff only, without the need of a ladder (e.g. zamboni room, boiler room and compressor room). C - Areas of the building that are accessible to Maintenance and Operations staff only, with the use of a ladder (e.g. zamboni room, boiler room and compressor room ceilings). D - Areas of the building that are behind solid ceilings systems or within wall and ceiling cavities (e.g. areas where building material demolition is required to obtain access).</p> <p>PRIORITY (ACTION LEVEL): 1 - IMMEDIATE CLEAN UP OF DEBRIS LIKELY TO BE DISTURBED. 2 - ACM REMOVAL 3 - ACM REPAIR 4 - ROUTINE SURVEILLANCE</p>													

ACCESSIBLE TO OPERATIONS, MAINTENANCE AND SERVICE PERSONNEL



2150 THURSTON DRIVE, SUITE 203
 OTTAWA, ONTARIO, K1G 5T5
 TEL (613) 748-4444 FAX (613) 748-1356
 WWW.DSTENGINEERS.COM

NOTES:
 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ASSOCIATED TECHNICAL REPORT.
 2. DO NOT SCALE DRAWING.
 3. BASE DRAWING COPIED FROM FIREPLAN.

LEGEND:
 ▲ APPROXIMATE ASBESTOS SAMPLE LOCATION
 7371-01A
 ② SURVEY LOCATION REFERENCE

REV	DATE	ISSUE	APPROVAL
0	06/20/08	ORIGINAL	N.G.

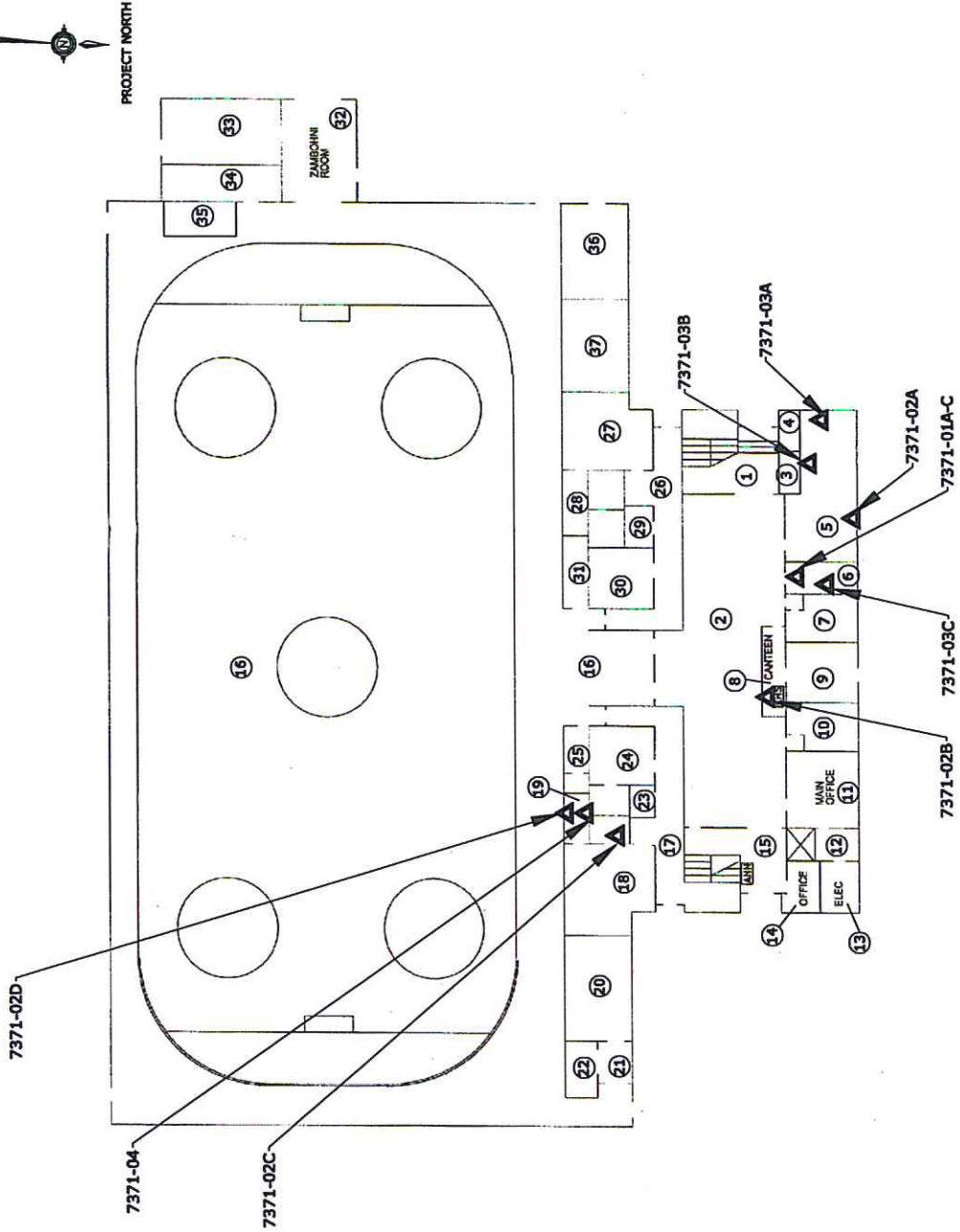
PROJECT TITLE
 CITY OF OTTAWA
 ASBESTOS SURVEY PROGRAM
 NAVAN MEMORIAL CENTRE
 FACILITY #7371
 1295 COLONIAL ROAD
 OTTAWA, ONTARIO

DRAWING TITLE

**SAMPLE LOCATION PLAN
 GROUND FLOOR**

DESIGNED BY	P. K.	SCALE	NTS
DRAWN BY	V.C.	DATE	June 2008
APPROVED BY	P.K.	PROJECT NO.:	BE-OT-007737

FIGURE 1





2150 THURSTON DRIVE, SUITE 203
OTTAWA, ONTARIO, K1G 5T9
TEL (613) 748-1415 FAX (613) 748-1356
www.dstgroup.com

- NOTES:**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ASSOCIATED TECHNICAL REPORT.
 2. DO NOT SCALE DRAWING.
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LEGEND:

A APPROXIMATE ASBESTOS SAMPLE LOCATION
7371-01A

(22) SURVEY LOCATION REFERENCE

REV	DATE	ORIGINAL	ISSUE	APPROVAL	M.O.
0					

PROJECT TITLE

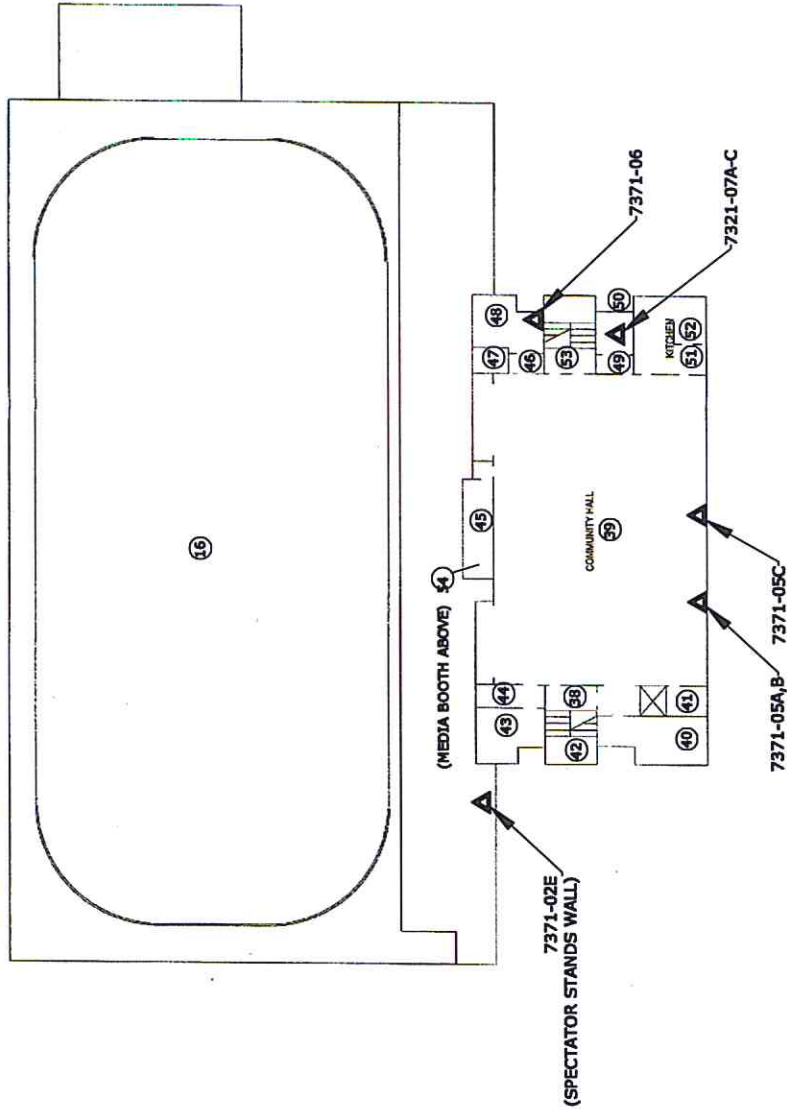
CITY OF OTTAWA
ASBESTOS SURVEY PROGRAM
NAVAN MEMORIAL CENTRE
FACILITY #7371
1295 COLONIAL ROAD
OTTAWA, ONTARIO

DRAWING TITLE

SAMPLE LOCATION PLAN
SECOND FLOOR

DESIGNED BY	P.K.	SCALE	NTS
DRAWN BY	V.C.	DATE	June 2008
APPROVED BY	P.K.	PROJECT NO.:	BE-OT-007737

FIGURE 2



PLM Summary Report

Steve Moody Micro Services, Inc.
 2051 Valley View Lane
 Farmers Branch, TX 75234 (Phone 972-241-8460)

NVLAP Lab No. 102056
 TDH License No. 30-0084

Client :	DST Consulting Engineers Inc. - Ottawa, ON	Lab Job No. : 08B-02881	002
Project :	7371	Report Date : 04/23/2008	
Project # :	BE-OT-7737	Sample Date : 03/04/2008	
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)		
	EPA Method 600 / R-93 / 116		Page 1 of 2

On 3/11/2008, nineteen (19) bulk material samples were submitted by a representative of DST Consulting Engineers Inc. - Ottawa, ON for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
7371-01A	12" x 12" Vinyl Floor Tile	None Detected - Floor Tile None Detected - Yellow Mastic
7371-01B	12" x 12" Vinyl Floor Tile	None Detected - Floor Tile None Detected - Yellow Mastic
7371-01C	12" x 12" Vinyl Floor Tile	None Detected - Floor Tile None Detected - Black Mastic
7371-02A	Drywall Joint Compound	None Detected - Joint Compound
7371-02B	Drywall Joint Compound	None Detected - Joint Compound
7371-02C	Drywall Joint Compound	None Detected - Joint Compound
7371-02D	Drywall Joint Compound	None Detected - Joint Compound
7371-02E	Drywall Joint Compound	None Detected - Joint Compound
7371-03A	Pipe Fittings - Cement Compound (Grey)	None Detected - Cement Compound
7371-03B	Pipe Fittings - Cement Compound (Grey)	None Detected - Cement Compound
7371-03C	Pipe Fittings - Cement Compound (Grey)	None Detected - Cement Compound
7371-04	Pipe Fittings - Cement Compound (Grey)	None Detected - Cement Compound
7371-05A	12" x 12" Vinyl Floor Tile (Cream)	None Detected - Floor Tile None Detected - Black Mastic
7371-05B	12" x 12" Vinyl Floor Tile (Cream)	None Detected - Floor Tile None Detected - Black Mastic
7371-05C	12" x 12" Vinyl Floor Tile (Cream)	None Detected - Floor Tile None Detected - Black Mastic
7371-06	Pipe Fittings - Cement Compound (Grey)	None Detected - Drywall Material
7371-07A	Vinyl Sheet Flooring	None Detected - Sheet Flooring None Detected - Fiber Backing

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 TDH License No. 30-0084

Client : DST Consulting Engineers Inc. - Ottawa, ON	Lab Job No. : 08B-02881	002
Project : 7371	Report Date : 04/23/2008	
Project # : BE-OT-7737	Sample Date : 03/04/2008	
Identification : Asbestos, Bulk Sample Analysis		
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)		
EPA Method 600 / R-93 / 116		

On 3/11/2008, nineteen (19) bulk material samples were submitted by a representative of DST Consulting Engineers Inc. - Ottawa, ON for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
7371-07B	Vinyl Sheet Flooring	None Detected - Sheet Flooring None Detected - Fiber Backing
7371-07C	Vinyl Sheet Flooring	None Detected - Sheet Flooring None Detected - Fiber Backing

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056.



Analyst(s): Bruce Crabb, Tommie Smith

Lab Manager : Bruce Crabb

Approved Signatory : _____

Lab Director : Steve Moody

Approved Signatory : _____

Thank you for choosing Steve Moody Micro Services

Steve Moody Micro Services, Inc.
2051 Valley View Lane
Farmers Branch, TX 75234

PLM Detail Report
Supplement to PLM Summary Report

TDH License No. 30-0084
NVLAP Lab No. 102056

Client : DST Consulting Engineers Inc. - Ottawa, ON
Project : 7371
Project # : BE-OT-7737

Lab Job No. : 08B-02881 002
Report Date : 04/23/2008

Page 1 of 2

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
7371-01A	Floor Tile (Tan)	99%	Calcite / Vinyl Binders	100%	03/15	TS
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
7371-01B	Floor Tile (Tan)	99%	Calcite / Vinyl Binders	100%	03/15	TS
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
7371-01C	Floor Tile (Tan)	99%	Calcite / Vinyl Binders	100%	03/15	TS
	Black Mastic (Black)	1%	Tar Binders	100%		
7371-02A	Joint Compound (Off-White)	100%	Calcite / Talc / Binders	100%	03/15	TS
7371-02B	Joint Compound (Off-White)	100%	Calcite / Talc / Binders	100%	03/15	TS
7371-02C	Joint Compound (Off-White)	100%	Calcite / Talc / Binders	100%	03/15	TS
7371-02D	Joint Compound (Off-White)	100%	Calcite / Talc / Binders	100%	03/15	TS
7371-02E	Joint Compound (Off-White)	100%	Calcite / Talc / Binders	100%	03/15	TS
7371-03A	Cement Compound (Grey)	100%	Cellulose Fibers	25%	03/15	TS
			Vermiculite	5%		
			Calcite / Binders	70%		
7371-03B	Cement Compound (Grey)	100%	Cellulose Fibers	25%	03/15	TS
			Vermiculite	5%		
			Calcite / Binders	70%		
7371-03C	Cement Compound (Grey)	100%	Cellulose Fibers	25%	03/15	TS
			Vermiculite	5%		
			Calcite / Binders	70%		
7371-04	Cement Compound (Grey)	100%	Cellulose Fibers	25%	03/15	TS
			Vermiculite	5%		
			Calcite / Binders	70%		
7371-05A	Floor Tile (Cream)	100%	Calcite / Vinyl Binders	100%	03/15	TS
	Black Mastic (Black)	<1%	Tar Binders	100%		

Steve Moody Micro Services, Inc.
 2051 Valley View Lane
 Farmers Branch, TX 75234

PLM Detail Report
 Supplement to PLM Summary Report

TDH License No. 30-0084
 NVLAP Lab No. 102056

Client : DST Consulting Engineers Inc. - Ottawa, ON
 Project : 7371
 Project # : BE-OT-7737

Lab Job No. : 08B-02881 002
 Report Date : 04/23/2008

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
7371-05B	Floor Tile (Cream)	100%	Calcite / Vinyl Binders	100%	03/15	TS
	Black Mastic (Black)	<1%	Tar Binders	100%		
7371-05C	Floor Tile (Cream)	99%	Cellulose Fibers	2%	04/23	BC
			Calcite / Vinyl Binders	98%		
	Black Mastic (Black)	1%	Tar Binders	100%		
7371-06	Drywall Material (Brown)	90%	Glass Wool Fibers	2%	03/15	TS
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	Paper Facing (Tan)	10%	Cellulose Fibers	100%		
7371-07A	Sheet Flooring (Light Tan)	50%	Synthetic Foam	70%	03/15	TS
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	55%		
			Glass Wool Fibers	5%		
			Wollastonite	5%		
			Binders / Fillers	35%		
7371-07B	Sheet Flooring (Light Tan)	50%	Synthetic Foam	70%	03/15	TS
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	55%		
			Glass Wool Fibers	5%		
			Wollastonite	5%		
			Binders / Fillers	35%		
7371-07C	Sheet Flooring (Light Tan)	50%	Synthetic Foam	70%	03/15	TS
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	55%		
			Glass Wool Fibers	5%		
			Wollastonite	5%		
			Binders / Fillers	35%		