

DESIGNATED SUBSTANCE SURVEY

at

Birchmount Community Centre and Pool 93 Birchmount Road Toronto, Ontario

Prepared for

City of Toronto Parks, Forestry, and Recreation

CCI Project No: 135121

April 30, 2014

Toronto

Victoria

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EXECUTIVE SUMMARY

Material	Yes	No	Likely
Acrylonitrile		Х	
Arsenic		Х	
Asbestos		Х	
Benzene			Х
Coke Oven Emissions		Х	
Ethylene Oxide		Х	
Isocyanates			Х
Lead	Х		
Mercury	Х		
Silica			X
Vinyl Chloride			X
PCBs		Х	
Ozone Depleting Substances	X		
Mould		X	

1.0 INTRODUCTION

In conjunction with the State-of-Good-Repair Audits, RFP 9117-13-5040, CCI Group Inc. carried out a Hazardous Materials Survey of the Birchmount Community Centre and Pool located at 93 Birchmount Road, Toronto.

The purpose of the survey was to determine the presence of building materials containing certain materials referred to as Designated Substances throughout the location, prior to any scheduled renovations and/or demolition work. Designated Substances are defined as any biological, chemical, or physical agent or combination thereof prescribed as a Designated Substance to which exposure of a worker is prohibited, regulated, restricted, limited or controlled.

2.0 REGULATORY REQUIREMENTS

In Ontario, there are a total of eleven Designated Substances. These substances have been regulated under Ontario Regulation 490/09 — *Designated Substances*, made under the Ontario Health and Safety Act, which applies to controlling designated substances in the work place.

The Occupational Health and Safety Act (OHSA), R.S.O. 1990, c.0.1, s.30 (1) specifies that:

"Before beginning a project, the owner shall determine whether any Designated Substances are present at the project site and shall prepare a list of all Designated Substances that are present at the site".



Designated Substances are defined as any biological, chemical, or physical agent or combination thereof prescribed as a Designated Substance to which exposure of a worker is prohibited, regulated, restricted, limited or controlled.

Section 30 of <u>The Act</u> requires that the list of Designated Substances be provided to prospective contractors and subcontractors who may do work on a site and come into contact at the site with Designated Substances.

Acrylonitrile	Isocyanates	
Arsenic	Lead	
Asbestos	Mercury	
Benzene	Silica	
Coke Oven Emissions	Vinyl Chloride	
Ethylene Oxide		

The Ministry of Labour has designated the following substances:

Ontario Regulation 278/05 (O. Reg. 278/05), the Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations, made under the <u>Occupational</u> <u>Health and Safety Act (OHSA)</u>, requires owners of a building to identify Asbestos-containing Materials (ACMs) prior to potential disturbance of the materials.

In addition, an owner of a building is required to have an Asbestos Management Plan (AMP) if ACMs (friable or non-friable) are present in the building and are to remain in place. An inventory of ACMs must be kept on site. All ACMs must be routinely inspected to ensure no damage has occurred, and the inventory must be updated once in each 12-month period and as may be required based on expected changing site conditions, abatement and/or renovation activities. Removal of all asbestos containing materials is required prior to building demolition.

In addition to the Designated Substances, the building was also surveyed for the presence of other hazardous materials such as polychlorinated biphenyls (PCBs), radioactive materials, ozone depleting substances (ODSs), and mould.

We understand that this survey has been conducted to comply with the regulatory requirements of Ontario Regulation 278/05.



3.0 SURVEY METHODOLOGY

Samples may have been obtained to determine the presence of asbestos in building materials and/or lead in paint. Samples were obtained in typically inconspicuous locations so as not to reduce aesthetic qualities. Samples were not taken of materials which would damage the building envelope, such as window sealants and roof materials. When inaccessible areas were encountered during the survey (i.e. wall cavities) inferences were made based upon findings in adjacent spaces. Equipment such as motors, electrical panels, fire doors etc., were not deenergized or disassembled to examine internal components or materials. These items should be considered to contain hazardous materials until proven otherwise.

The survey included a visual assessment for the presence of asbestos, lead, mercury, other Designated Substances and Hazardous Materials. Photographs are included throughout the report.

4.0 SCOPE OF WORK

The Designated Substance survey entailed the following:

- Visual review of the building to identify materials which could contain Designated Substances,
- Recommendations for appropriate action where required.

This report details the hazardous substances found within the building, and was prepared for City of Toronto (the client). The assessment was directed on both the interior and exterior structure and finishes of the building. It does not report on possible contaminants in the soil under and surrounding the building, or contents of vessels, drums, etc. that may be concealed.

The survey was conducted on March 3, 2014. After that time, hazardous substances may have been removed from or added to the location. It is the owner's responsibility to disclose whether any hazardous substances have been added to or removed from the building.

This report should be made available to contractors tendering on any renovation or demolition work. In turn, all contractors requesting tenders from subcontractors shall furnish this report to subcontractors.



5.0 FIELD WORK AND FINDINGS

Property Description



The Survey Area consisted of a two (2) storey Community Recreation Centre with a Pool, which was constructed in 1993. Floor finishes throughout the building include vinyl tiles, ceramic tile, carpet and exposed concrete. Wall finishes include painted concrete block, ceramic tiles and gypsum board. Ceiling finishes include gypsum board, lay-in ceiling tiles and steel roof deck structure. All domestic hot and cold water lines throughout the Survey Area appeared to be insulated copper or PVC, or wrapped with fibreglass insulation.

The following subsections detail our findings:



Asbestos

Background Information on Asbestos

Asbestos is a generic name that has been given to a group of naturally occurring fibrous minerals. In the past, asbestos was commonly used as a component in building materials such as insulation, fireproofing and acoustic or decorative panels. Although there are many types of asbestos, the three main forms of commercial importance in Ontario are chrysotile, amosite and crocidolite.

An Asbestos-Containing Material (ACM) is defined by O. Reg. 278/05 as a material that contains 0.5 % or more asbestos by dry weight. ACMs are placed into two general classes, "friable" and "non-friable" ACMs. Friable ACMs are those materials that when dry can be crumbled, pulverized and reduced to powder by hand pressure. Typical friable ACMs include acoustical or decorative texture coats, fireproofing, some ceiling tiles and thermal insulation. Non-friable ACMs are much more durable as they are held together by a binder such as cement, vinyl or asphalt. Typical non-friable ACMs include floor tiles, fire blankets, roofing materials and cementitious products such as wallboards, pipes or siding.

It has been recognized that hazardous situations may exist in buildings where asbestoscontaining materials are found. This is especially true where asbestos fibres may become airborne as a result of material ageing, physical damage, and water damage or air movement.

In contrast, there is little reason for concern if the asbestos is in good condition, has not been damaged and is not in a location where it is likely to be disturbed.

Asbestos Survey Methodology

The asbestos survey included the identification of potential friable and non-friable asbestoscontaining materials within the facility.

The likelihood of ACMs being present in inaccessible areas such as behind chases and bulkheads was determined by assessing the presence of asbestos-containing systems in adjacent areas.

Fiberglass insulation was not submitted for analysis as it can be identified visually as non-asbestos material.

Past Designated Substance Surveys (DSS) completed by Kleinfeldt Consultants Limited were referenced during this survey. Additional samples were taken where necessary to comply with O. Reg. 287/05. Past results are included in Appendix A where applicable.



Asbestos Survey Findings

Asbestos was not found within the surveyed areas.

• Mechanical Piping Insulation

Pipe insulation was observed throughout the Survey Area and was observed to contain newer and older fiberglass insulation material with canvas wrapping. Fiberglass insulation is not expected to contain asbestos.



• Vinyl Floor Tiles

Vinyl tiles installed in the Bluffs Room were tested in the previous report and found not to contain asbestos. Other vinyl tiles installed are not expected to contain asbestos.



• Lay-in Ceiling Tiles

Lay-in ceiling tiles in the second floor's Main Hallway were tested in the previous report and found not to contain asbestos. Other ceiling tiles installed are not expected to contain asbestos





• Exterior Doors Caulking

Exterior doors caulking was not sampled as it is not expected to contain asbestos.

Roofing Material

To avoid damage and compromising the integrity of roofing material, no bulk samples of the roofing materials from roof sections were collected. The roofing materials are newer and unlikely to contain asbestos.

Building Material

White joint compounds were tested in the previous report and found not to contain asbestos.



• Storm Drainage Piping

Storm drainage piping are partially insulated where visible; it is cast iron. Other roofs are sloped metal and drained to exterior eavestroughs and rain leader.



Lead

Background Information on Lead

Lead was a common additive in exterior and hard wearing paint applications. Lead was used to prolong shelf life of paint and to increase its flexibility and durability to wear and weather. Acute exposure to lead by inhalation or ingestion may cause headaches, fatigue, nausea, abdominal cramps and joint pain. Chronic exposures can cause reduced haemoglobin production and reduced lifespan. It has also been known to impact the body's central and peripheral nervous systems and brain function and has been linked to learning disabilities in children.

Currently in Ontario, there is no regulatory limit that determines what concentration of lead constitutes a "lead containing material". On October 21, 2010, Health Canada, under the *Hazardous Products Act*, stated that the lead content in surface-coating materials, furniture, toys and other articles for children, should not exceed 90mg/kg (0.009%, 90ppm). However, this is intended for the importation or sale of products within Canada. Therefore, this is not to be misconstrued as a limit established to define a lead-containing material or a limit with respect to lead on construction projects.

Exposure to lead-containing materials is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act. Care must be taken to prevent lead-containing particles from becoming airborne during the disturbance of lead-containing surfaces (i.e., during renovation or demolition projects). All lead abatement work must follow procedures outlined in the <u>Guideline Lead on Construction Projects</u>, issued in September 2004 (amended in April 2011) by the Occupational Health and Safety branch of the Ministry of Labour.

Lead is known to have been used in solder on copper plumbing fixtures, in lead conduit pipes, in lead-calcium battery plates, ammunition, and in nuclear and X-ray shielding devices. However, these materials were not sampled during this investigation, but were noted where applicable.

Lead Findings

Based on the age of this building, it is expected that lead-based paint be found below newer painted latex finishes. Paint samples were not taken so as not to damage paint finishes. Lead may be present in the soldered joints of copper piping found within this building.



Mercury

Mercury is known to cause poisoning in humans through the inhalation of vapours, ingestion of contaminated materials or skin absorption through direct contact with the liquid.

Precautions must be taken to prevent mercury vapours from becoming airborne during renovations or demolition of the building. Exposure to airborne mercury is regulated under the Revised O. Reg. 490/09 as amended – Regulation respecting Mercury – made under the Occupational Health and Safety Act; and under O. Reg. 558, which amended O. Reg. 347/90 (General - Waste Management), mercury is classified as a Schedule 2(b) Hazardous Waste Chemical. Its hazardous waste number is U151.

Mercury is found in products such as thermostats, temperature and pressure gauges, fluorescent lamps and batteries. Mercury in products can be released to the environment through breakage, or disposal at the end of a product's useful life. Improper disposal of these mercury products poses a health and environmental risk to everyone. In addition, the disposal of mercury-containing products can create wastes that are often classified as hazardous. Wastes that leach mercury in concentrations exceeding Ontario Regulation 347/90 (General - Waste Management) limits are also considered hazardous.

Thermostat Switches

The mercury in thermostats switch contains approximately 3-4 grams of mercury in a glass ampoule, typically attached to a metal coil. Mercury-containing switches have been used in thermostats for over 40 years.

CCI Group observed mercury based thermostats within the Building.

Fluorescent Light Tubes

Mercury is an essential component in fluorescent lamps and HID lamps. The mercury is in a vapour form and in the phosphor coating on the lamp tube. Estimates of the mercury content contained in compact, 4 foot, and 8-foot lamps are 10 mg and 23 mg respectively.

Most fluorescent lamps qualify as hazardous waste when removed from service and are therefore prohibited from disposal in the solid waste stream. Fluorescent lamps would be classified as 146T on your facility Generator Registration Report under O. Reg. 347/90 - General Waste Management, as amended by O. Reg. 558/00. Under this regulation, if the leachate results exceed 0.1 milligrams of mercury per litre for a given waste, then the facility must treat the waste as hazardous waste. Most fluorescent and HID lamps will exceed the leachate toxicity limit; therefore these wastes must be registered and treated as hazardous waste or sent for recycling.



CCI Group identified numerous fluorescent light fixtures with tubes throughout the Survey Area. Mercury is likely to be present in vapor form in the fluorescent light tubes.

Silica

Silica is expected to be present in building materials such as concrete, brick, mortar and ceramic tiles located throughout the structures.

Precautions must be taken to prevent silica-containing particles from becoming airborne during the disturbance of silica-containing surfaces, such as during renovation or demolition projects. Exposure to airborne silica is regulated under Ontario Regulation 490/09, *Designated Substances* - made under the Occupational Health and Safety Act. All work being carried with silica containing materials should be conducted following the Guide Silica on Construction Projects issued September 2004 by the Occupational Health and Safety branch of the Ministry of Labour.

Vinyl Chloride

Vinyl chloride (monomer) is likely to be present in stable form within poly vinyl-chloride (PVC) piping and conduits and as a component of interior finishes.

Acrylonitrile

Acrylonitrile was not noted and would not be expected to be present in the Survey Area.

Arsenic

Arsenic or arsenic compounds were not noted in the building.

Benzene

Benzene may be present in stable form in roofing materials, paints and adhesives located throughout the subject facility.



Coke Oven Emissions

Coke oven emissions were not noted and would not be expected to be present in the Survey Area.

Ethylene Oxides

Ethylene oxide was not noted, and would not be expected to be present in the Survey Area.

Isocyanates

lsocyanates compounds may be present in stable form in paint finishes, varnishes, and polyurethane plastics, synthetic rubbers, foams and adhesives.

Polychlorinated Biphenyls (PCBs)

Polychlorinated Biphenyls (PCBs) were commonly used as dielectric insulating fluid in electrical equipment such as transformers and capacitors, and in the fluorescent and HID lamp ballasts. The production of PCBs in the North America started in 1929 and was banned at the beginning of 1979. After 1981, no manufacturers produced fluorescent and HID lamps with PCB-containing ballasts.

PCBs are not a designated substance under the Occupational Health and Safety Act.

PCB Regulations (SOR/2008-273)

The *PCB Regulations* (the Regulations) set specific deadlines for ending the use of PCBs in concentrations at or above 50 mg/kg; eliminating all PCBs and equipment containing PCBs currently in storage and limiting the period of time PCBs can be stored before being destroyed. The Regulations also establish sound practices for the better management of the remaining PCBs in use (i.e. those with content of less than 50 mg/kg), until their eventual elimination, to prevent contamination of dielectric fluids and dispersion of PCBs in small quantities into other liquids.



• Light Ballasts/Transformers

The building is illuminated using newer T-8 fluorescent and compact fluorescent bulbs. The ballasts are not expected to contain PCBs. The transformers are non-PCB type ballasts.



Ozone Depleting Substances (ODS)

Within Ontario, the general use of ozone depleting substances (ODS) is controlled through Regulation 463/10 of the <u>Environmental Protection Act</u>. Production of ODS in the form of hydro chlorofluorocarbons (HCFCs) and chlorofluorocarbons (CFCs) ceased in Canada in 1993 as a result of their ozone-depleting characteristics. Importation of CFCs into Canada ceased in 1997 and total ban on their use from 2010. The use of these materials is still permitted in existing equipment, but equipment must be serviced by a licensed contractor such that CFCs are contained and not released to the environment during servicing or operation.

A visual assessment for equipment potentially containing ozone-depleting substances was conducted. **CCI Group** observed condenser units utilizing R-22 refrigerant. R-22 refrigerant (chlorodifluoromethane) is currently regulated as an ozone depleting substance; however strict controls over their manufacture and supply are in place. Under the management of a licensed contractor, equipment containing R-22 does not represent a significant threat to human health or the environment.

No other ODS-content equipment was observed at the time of site visit.

Mould

CCI Group did not observe visible signs of mould in the Survey Area.



6.0 CONCLUSIONS AND RECOMMENDATIONS

On the basis of our investigations, representative sampling and laboratory analysis of suspected asbestos and lead containing materials, as well as mould-affected materials; the following conclusions and recommendations are presented:

<u>Lead</u>

Maintain paint finishes in good condition. Provide water testing to confirm the presence of lead in the water.

Mercury

Maintain fluorescent fixtures and dispose of as per Ontario Regulations 844 and 347. Based on limited quantities, costs are not carried in this review.

<u>Silica</u>

Precautions should be taken as required during major renovations and demolition projects on concrete (i.e. coring through concrete slabs, demolition of masonry, etc.) to ensure that workers' exposure levels to airborne silica does not exceed 0.05 mg/m³.

This can be achieved by:

- providing the workers with respiratory protection;
- wetting the surface of the materials to prevent dust emissions; and,
- providing workers with facilities to properly wash prior to exiting the work area.
- Demolition work that is likely to impact silica-containing materials should be carried out in accordance with the requirement detailed in the Ontario Ministry of Labour document entitled "Guideline: Silica on Construction Projects", dated September 2004.

Ozone Depleting Substances (ODS)

A visual assessment for equipment potentially containing ozone-depleting substances was conducted. **CCI Group** observed rooftop units containing R-22. Under the management of a licensed contractor, equipment containing R-22 does not represent a significant threat to human health or the environment.



• Prior to the demolition/alteration/renovation of the units, all equipment containing ODS must be decommissioned by a licensed contractor such that ozone depleting substances are contained and not released to the environment during decommissioning

Other Designated Substances

Other Designated Substances (acrylonitrile, coke oven emissions, ethylene oxide, isocyanates, benzene or vinyl chloride) are not expected to be present in the building in matrix or sufficient quantities to cause an exceedence of Ministry of Labour exposure guidelines.



7.0 GENERAL CONSIDERATIONS AND LIMITATIONS

The information presented in this report is based on information provided by others, direct visual observation made by personnel with **CCI**, and the results of laboratory testing as identified herein.

It should be noted that there might be hazardous materials in locations not visible during our investigation. Prior to any demolition/dismantling of materials additional testing is recommended as a means of worker and occupant protection.

The findings detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations.

CCI does not certify or warrant the environmental status of the property nor the building on the property.

Please note that the passage of time affects the information provided in the report. Environmental conditions of a site can change. Opinions relating to the site conditions are based upon information that existed at the time that the conclusions were formulated.

The client expressly agrees that it has entered into this agreement with **CCI**, both on its own behalf and as agent on behalf of its employees and principals.

The client expressly agrees that **CCI**'s employees and principals shall have no personal liability to the client in respect of a claim, whether in contract, tort and/or any other cause of action in law. Accordingly, the client expressly agrees that it will bring no proceedings and take no action in any court of law against any of **CCI**'s employees or principals in their personal capacity.



We trust that we have detailed our findings clearly and that we have satisfactorily addressed the scope of work you require at this time. In the event you wish us to review our findings with you, or require our services further in this regard, please do not hesitate to contact our office.

Sincerely, CCI GROUP INC.

Prepared by:

Zack Salman, M. Eng., BSSO Senior Project Manager Corporate Projects



APPENDIX A – LAB ANALYSIS

IATL

International Asbestos Testing Laboratories 9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:

EMC Scientific

 Report Date:
 3/31/2008

 Project:
 City Of Toronto, 2/11/08

 Project No.:
 3025

5800 Ambler Drive, Suite 100 Mississauga ON

sauga ON L4W4J4

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.:	3241094 73.1	Description / Location:	Off-White @ Slop Sin	Floor Tile ik Room	
% Asbestos	Тура	% Non-Asbestos Fibrous	Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected		None Detected	100
Lab No.: Client No.:	3241095 73.2	Description / Location:	White/Tan @ 2nd Flo	Ceiling Tile or Hallway	
% Ashestos	<u>Tvpe</u>	% Non-Asbestos Fibrous	Material	Type	% Non-Fibrous Material
None Detected	None Detected	35 35		Cellulose Fibrous Glass	30
Lab No.: Client No.:	3241096 73_3	Description / Location:	White Join Cciling @	t Compound 2nd Floor Hallwa	
% Asbestos	<u>Type</u>	<u>% Non-Asbestos Fibrou</u>	Material	<u>Type</u>	% Non-Fibrous Material
None Detected	None Detected	None Detected		None Detected	100
Lab No.: Client No.:	3241097 73.4	Description / Location:	White Insu Fireproofu	llation 19 @ Mctal Deck	@ Mech
% Asbestos	Type	<u>% Non-Asbestos Fibrou</u>	<u>Material</u>	Type	<u>% Non-Fibrous Material</u>
None Detected	None Detected	90		Fibrous Glass	10
	IST-NVLAP No. 101165-	-0 NY-DOF	I No. 110	21	AJHA Lab No. 100188
	Is confidential report relates only to trase This repor	Heff(3) lested and does not represent in shall not be reproduced except in fu Analysis Method:	an endorsemen II, without writt EPA 600/R-9	t by NIST-NVLAP, All en approval of the lab 3/116	A or any agency of the U.S. government pratory
Comments: (PC) In this fin accordi be miss techniq	disates Statified Point Count Mothod per it of quantitation. (PC-Trace) means that a ance with EPA 600 Mothod. If not reports red by PLM due to resolution imitations o me. Regulatory Limit is based upon the sa	formed. Method not performed unless expectos was detected but is not quanti ed or otherwise noted, layer is either no f the optical microscope. Therefore, a mple matrix.	stated. Quantil liable under the present or the agative PLM res	fication at <0.25% by y Point Counting regime client has specifically suits cannot be guarant	volume is possible with this method. (PC-Trace) represents n. Analysis includes all distinct zeparable layers in requested the fit not be analyzed. Small asbestos fibers may ced. Breaton Microscopy and be used as a confirming
Analysis Perfo	rmed By:L. Solebello		Approve	(ed By:	- Sharpel
Date: 3/1/	2008	Page 1	of3	Fran Labo	k E. Ehrenfeld, III tatory Director

IATL

International Asbestos Testing Laboratories 9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:

EMC Scientific

 Report Date:
 3/31/2008

 Project:
 City Of Toronto, 2/11/08

 Project No.:
 3025

5800 Ambler Drive, Suite 100 Mississauga ON

BULK SAMPLE ANALYSIS SUMMARY

LAW4J4

Lab No.: Client No.:	3241098 73.5	Description / Location: White Floor Tile @ Exit Stairs @ Mech			
% Ashestos	Type	% Non-Ashestos Fibrous	Materia]	Турс	% Non-Fibrous Material
None Detected	None Detected	None Detected		None Detected	100
Lab No.; Client No.:	3241098 73.5	Description / Location:	Yellow M @ Exit Sta	astic ùrs @ Mech	Layer No.: 2
% Asbestos	Type	% Non-Asbestos Fibrous	<u>Material</u>	Type	% Non-Fibrous Materia
None Detected	None Detected	None Detected		None Detected	100
Lab No.: Client No.:	3241099 73.6	Description / Location:	Pink/Tan i @ Bluffs l	Floor Tile Room	
% Ashestas	Type	% Non-Asbestos Fibrou	s Material	Type	% Non-Fibrous Materia
None Detected	None Detected	None Detected	I	None Detected	100
Lab No.: Client No.:	3241099 73.6	Description / Location:	Black Ma @ Bluffs]	stic Room	Layer No.: 2
% Asbestos	Type	<u>% Non-Asbestos Fibrou</u>	<u>s Material</u>	Type	<u>% Non-Fibrous Materia</u>
None Detected	None Detected	None Défected	l	None Detected	100
N	IST-NVLAP No. 101165	-0 NY-DOI	H No. 11(21	AIHA Lab No. 100188
Th	is confidential report relates only to those This repo	r item(s) tested and does not represent rt shall not be reproduced except in fu	t on endorseme dl, without writ	nt by NIST-NVLAP, Al ten approval of the lat	IHA or any agency of the U.S. government boratory.
		Analysis Method:	EPA 600/R-	93/116	<u></u>
Comments: (FC) In this lim accords be miss techniqu	diestes Straffed Point Count Motiod per it of quantitation. (PC-Trace) means that : mee with EPA 600 Method. If mot report ed by PLM due to resolution limitations o e. Regulatory Limit is based upon the sa	formed. Method not performed unless isbestor was detected but is not quanti- ed or otherwise noted. Have is either a f the optical microscope. Therefore, a upple matrix.	stated Quant fiable under the present or the egative PLM re	ification at <0.25% by Point Counting regime c client has specifically solts cannot be guaran	volume is possible with this method. (PC-Trace) represe en. Analysis includes all distinct separable layers in requested that it not be analyzed. Small asbestos fibers teed. Electron Microccopy can be used as a confirming

Page 2 of 3



Client:

International Asbestos **Testing Laboratories**

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

CERTIFICATE OF ANALYSIS

EMC Scientific 5800 Ambler Drive, Suite 100 Report Date: 3/31/2008 City Of Toronto, 2/11/08

Mississauga ON Project: Project No.: 3025

L4W4J4

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 32 Client No.: 73	.7	Description / Location:	White Joint Compound Ceiling @ Fiallway To Pool Area	
% Asbestos	Type	<u>% Non-Asbestas Fibrou</u>	s Material Type	% Non-Fibrous Material
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 tiem(s) lested and does not represent an endorsement by NIST-NVLAP, AIHA or any ogency 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 Foint 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 quantification (PC-Trace) represents that asbestos was detected but is not quantificable 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: L. Solebello

Date: 3/1/2008

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BIRCHMOUNT COMMUNITY CENTRE/POOL – SAMPLE LOCATION



