City of Winnipeg Upgrades to the McPhillips and Tache Pumping Stations Tender Opportunity 1070-2019

APPENDIX B

Confirmed and Presumed Asbestos Reports

Site:

Mc Phillips Pumping Station

Date: 01/08/19 15:31:33

Building Number(s): 1

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 1 **Building Name: Chlorine Building (Bldg. B)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 8 **Location Name: Chlorine Building -**Floor: Main-Chlorine Building Room #: Square ft: 1200

		Chlorine Tonner Room												
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity &	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	С	Y	6	(7)			EA	V0007	Confirmed Asbestos	Friable
Piping	Rain Water Leader	Sweat Wrap Pipe Insulation	Straight	Canvas	С	Y	40	(7)			LF	V0001	Confirmed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Building #: 1 **Building Name: Chlorine Building (Bldg. B) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 9 **Location Name: Chlorine Building -**Floor: Main-Chlorine Building Room #: Square ft: 300

		Chlorinator Room												
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity	& Action	Unit	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	С	Y	6	(7)			EA	S0007	Confirmed Asbestos	Friable
Piping	Rain Water Leader	Sweat Wrap Pipe Insulation	Straight	Canvas	С	Υ	45	(7)			LF	V0001	Confirmed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Mc Phillips Pumping Station

Date: 01/08/19 15:31:33

Site:

Building Number(s): 1

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 1 **Building Name: Chlorine Building (Bldg. B)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 10 **Location Name: Chlorine Building -**Floor: Main-Chlorine Building Room #: Square ft: 40

		Vestibule												
System	Component	Material	Item	Covering	Access	Visible	Condi	ition, (Quantity	& Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Quarry tile	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Building #: 1 **Building Name: Chlorine Building (Bldg. B) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Square ft: 160 Location #: 11 Location Name: Chlorine Building - Floor: Main-Chlorine Building Room #:

		Stairwell												
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity & A	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	С	Υ	5	(7)			EA	V0007	Confirmed Asbestos	Friable
Piping	Rain Water Leader	Sweat Wrap Pipe Insulation	Straight	Canvas	С	Y	20	(7)			LF	V0001	Confirmed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Date: 01/08/19 15:31:33

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 1 Reassessment Date:2	_	hlorine Building (Bldg. B) Reassessment Survey	•	ason Combe uz		Survey	Date: 2	2006-0	5-01						
Location #: 43		Location Name: Chlo Exterior	rine Building	Floor: NA			Room	ı #:			Squa	re ft:			
System	Component	Material	Item	Covering	Access	Visible	Cond	ition, (Quantity	& Action		Units	Sample	Hazard	Friability
							Good		Fair	Poor					
Wall	All	Plaster	Surface	Quarry tile	А	Y	100	(5)				%	V9500	Presumed Asbestos	Friable
Wall	Exterior	Tar		N/A	А	Y	100	(7)				%	V0016	Confirmed Asbestos	Non-Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)				%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Site:

Mc Phillips Pumping Station

% - Percentage

Date: 01/08/19 15:31:33

Building Number(s): 1

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Legend:

A	ction			A	ccess	Cond	lition	Samp	le Number
(1)	Clean Up of ACM Debris	1	Precautions for Access Which may Disturb ACM Debris	A	Accessible to all building occupants	Good	No visible damage or deterioration.	S####	Sample collected
(3)	ACM removal	1	Precautions for Work Which may Disturb ACM in Poor Condition	В	Accessible to maintenance and operations staff without a ladder	Fair	Minor, repairable damage, cracking or deterioration.	V####	Material is visually identified to be identical to S###
(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair	С	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	l	Irreparable damage or deterioration with exposed and missing material	V0000	Known non-asbestos material
(7)	Management program and surveillance			D	Not normally accessible or without demolition	NOTE:	1	V9000	Material is visually identified to contain asbestos
								V9500	Material is presumed to contain asbestos
NO	OTE: Actions in round brackets () are auto-calculated	lated	. Actions in square brackets [] are manual						resumed various materials identified in the re ACM if not sampled.

Units SF - Square feet LF - Linear feet EA - Each **Client:**

City of Winnipeg Water and Waste Dept

Site:

480

(7)

Mc Phillips Pumping Station

Confirmed Non-Friable

Asbestos

Date: 01/08/19 15:31:42

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 Reassessment Date:2019	Building Name: Old Pt -07-03	Reassessment Surveyor:		Z		Survey			5-01							
Location #: 13		Location Name: Old Pun	np Building -	Floor: Second-	-Old Pum	p	Room	#:				Square	e ft: 1	050		
		Dispatch		Building												
System	Component	Material	Item	Covering	Access	Visible	Cond	ition, (Quantity	y & A	ction	1	Units	Sample	Hazard	Friability
							Good		Fair		Poor					
Ceiling		Drywall			С		100	(7)				•	%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Quarry tile	Α	Y	100	(5)				(%	V9500	Presumed Asbestos	Friable
Wall		Drywall			А		100	(7)				(%	V9500	Presumed Asbestos	Non-Friable

Note: Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works. Grout (masonry mortar/cement/plaster) on brick wall is presumed asbestos containing.

Survey Date: 2006-05-01 Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Transite

Location #: 14 Location Name: Old Pump Building - Floor: Second-Old Pump Square ft: 108 Room #:

> Office Ruilding

Surface

		Office		Dunaing										
System	Component	Material	Item	Covering	Access	Visible	Condi	ition, (Quantity	& Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Ceiling		Drywall			С		100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Wall		Drywall			Α		100	(7)			%	V9500	Presumed Asbestos	Non-Friable

Note: Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works

Wall

Site:

Mc Phillips Pumping Station

Date: 01/08/19 15:31:42

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 15 Location Name: Old Pump Building - Floor: Second-Old Pump Room #: Square ft: 108

Building

Office System Component Material Item Covering Visible Condition, Quantity & Action Units Sample Hazard Friability Access Good Fair Poor С V9500 Ceiling Drywall 100 (7) Presumed Non-Friable Asbestos Α V9500 Wall Drywall 100 (7) Presumed Non-Friable Asbestos

Note: Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location Name: Old Pump Building - Floor: Second-Old Pump Square ft: 85 Location #: 16 Room #:

		Washroom	1 0	Building		•				•				
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity &	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Ceiling		Drywall			С		100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Ceiling		Transite	Surface		А	Υ	128	(7)			SF	V9000	Confirmed Asbestos	Non-Friable
Wall		Transite	Surface		Α	Υ	352	(7)			SF	V9000	Confirmed Asbestos	Non-Friable
Wall		Drywall			Α		100	(7)			%	V9500	Presumed Asbestos	Non-Friable

Note: Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works

Client:

City of Winnipeg Water and Waste Dept

Site:

Mc Phillips Pumping Station

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 17 Location Name: Old Pump Building - Floor: Second-Old Pump Room #: Square ft: 35

Vestibule **Building** System Component Material Item Covering Visible Condition, Quantity & Action Units Sample Hazard Friability Access Good Fair Poor V9000 Wall Transite Surface Α Υ 112 (7) Confirmed Non-Friable Asbestos V9500 Wall Drywall Α 100 (7) Presumed Non-Friable Asbestos

Note: Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location Name: Old Pump Building - Floor: Second-Old Pump Square ft: 70 Location #: 18 Room #:

Location II. 10		Location Manie: O	a rump bunding	i iooi . becom	u Olu I uli	.b	KOOIII // •		54	uuicit. 1	v		
		Stairwell		Building									
System	Component	Material	Item	Covering	Access	Visible	Condition	n, Quantit	y & Action	Units	Sample	Hazard	Friability
							Good	Fair	Poor				
Floor	All	Terrazzo	Surface	N/A	А	Υ	70			SF	V9500	[Presumed Asbestos]	Non-Friable
Wall	All	Plaster	Surface	Quarry tile	А	Υ	100 (5)		%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100 (7))		%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Site:

Mc Phillips Pumping Station

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 19 Location Name: Old Pump Building - Floor: Third-Old Pump Building Room #: Square ft: 120

System	Component	Material	Item	Covering	Access	Visible	Condi	ition, (Quantity & A	ction	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Quarry tile	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Square ft: 70 Location #: 20 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #:

Hallway

System	Component	Material	Item	Covering	Access	Visible	Condition,	, Quantity &	Action	Units	Sample	Hazard	Friability
	•						Good	Fair	Poor		_		
Floor	All	Terrazzo	Surface	N/A	А	Y	70			SF	V9500	[Presumed Asbestos]	Non-Friable
Wall	All	Plaster	Surface	Quarry tile	А	Y	100 (5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100 (7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Site:

Mc Phillips Pumping Station

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 21 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Square ft: 105

		Furnace Room	_		_							_				
System	Component	Material	Item	Covering	Access	Visible	Cond	lition,	Quantit	y & A	ction		Units	Sample	Hazard	Friability
							Good	I	Fair		Poor					
Wall	All	Plaster	Surface	Quarry tile	A	Υ	100	(5)					%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite/concrete block walls	Insulation	Masonry	В	N	100	(7)					%	V9500	Presumed Asbestos	Friable
Piping	Rain Water Leader	Parging Cement	Fitting	Canvas	D	N	3	(7)					EA	V0007	Confirmed Asbestos	Friable
Piping	Domestic Water (Hot & Cold)	Parging over Fibreglass	Fitting	Canvas	В	Υ	12	(7)	2	(6)	3	(3)	EA	V0004	Confirmed Asbestos	Friable

Note: Rain Water Leader Pipe is present at the back of the duct Masonry walls suspect to containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing. Damage DW fittings present June 2017

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Location #: 22 Square ft: 1835

		Snop												
System	Component	Material	Item	Covering	Access	Visible	Condit	tion, (Quantity &	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Floor	All	Terrazzo	Surface	N/A	А	Υ	100				%	V9500	[Presumed Asbestos]	Non-Friable
Ceiling	All	Lay-in ceiling tiles		Metal	С	N	100	(7)			%	S0011	Confirmed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Quarry tile	А	Y	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Site:

Mc Phillips Pumping Station

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 27 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Square ft: 240

		Tool Crib												
System	Component	Material	Item	Covering	Access	Visible	Condit	tion, (Quantity & A	ction	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Floor	All	Terrazzo	Surface	N/A	Α	Υ	100				%	V9500	[Presumed Asbestos]	Non-Friable
Wall	All	Plaster	Surface	Quarry tile	Α	Y	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 28 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Square ft: 132

1170 class con

		Washroom											
System	Component	Material	Item	Covering	Access	Visible	Condition,	Quantity &	& Action	Units	Sample	Hazard	Friability
							Good	Fair	Poor				
Floor	All	Terrazzo	ALL	N/A	Α	Υ	100			%	V9500	[Presumed Asbestos]	Non-Friable
Wall	All	Adhesive/mastic	Surface	Ceramic Tiles	А	N	100 (7)			%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Ceramic Tiles	A	Y	100 (5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100 (7)			%	V9500	Presumed Asbestos	Friable
Wall		Drywall			А		100 (7)			%	V9500	Presumed Asbestos	Non-Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works. Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.

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Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 29 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Square ft: 425

Locker Room

		Locker Room												
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity &	& Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Floor	All	Terrazzo	Surface	N/A	A	Y	100				%	V9500	[Presumed Asbestos]	Non-Friable
Wall	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N	100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Ceramic Tiles	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite/concrete block walls	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Wall		Drywall			A		100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Preformed Block	k A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works. Grout (masonry mortar/cement/plaster) on cinder block/ceramic walls is presumed asbestos containing.



Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 **Building Name: Old Pump Building (Bldg. C)** Survey Date: 2006-05-01 **Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 30 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Square ft: 200

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		Electrical Room												
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity &	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Floor	All	Terrazzo	Surface	N/A	Α	Y	100				%	V9500	[Presumed Asbestos]	Non-Friable
Wall	All	Adhesive/mastic	Surface	Ceramic Tiles	Α	N	100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Ceramic Tiles	Α	Y	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Wall		Drywall			Α		100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Preformed Block	А	Y	100	(5)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works. Grout (masonry mortar/cement/plaster) on cinder block/ceramic tile walls is presumed asbestos containing.

Site:

Mc Phillips Pumping Station

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Survey Date: 2006-05-01 Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 31 Location Name: Old Pump Building - Floor: Main-Old Pump Building Room #: Square ft: 600

Date: 01/08/19 15:31:42

		Generator Room	•		-					-				
System	Component	Material	Item	Covering	Access	Visible	Cond	ition,	Quantity &	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Quarry tile	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall	All	Plaster	Surface	Preformed Block	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite/concrete block walls	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Wall		Drywall			A		100	(7)			%	V9500	Presumed Asbestos	Non-Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works. Grout (masonry mortar/cement/plaster) on cinder block/brick walls is presumed asbestos containing.

Building #: 4 **Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 35 Location Name: Old Pump Building - Floor: Basement-Old Pump Room #: Square ft: 150

> Building **Record Storage Vault**

		riccora Storage (mare		2										
System	Component	Material	Item	Covering	Access	Visible	Condi	tion, (Quantity & A	ction	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	А	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

HMIS
Hazardous Materials Inventory System

Client: City of Winnipeg Water and Waste Dept Site: Mc Phillips Pumping Station

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 4 Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 36 Location Name: Old Pump Building - Floor: Basement-Old Pump Room #: Square ft: 800

Crawlspace Building

System Component Material Item Covering Visible Condition, Quantity & Action Units Sample Hazard Friability Access Good Fair Poor Domestic Water (Hot & V0004 Piping Parging over Fibreglass Fittina Canvas D Υ 5 (7) EΑ Confirmed Friable Cold) Asbestos

Building #: 4 Building Name: Old Pump Building (Bldg. C) Surveyor: Jason Combe Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 41 Location Name: Old Pump Building Floor: NA Room #: Square ft:

Exterior

		LACTION												
System	Component	Material	Item	Covering	Access	Visible	Condi	ition, (Quantity	& Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

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Client: City of Winnipeg Water and Waste Dept Site:

Building Number(s): 4

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Legend:

A	ction			A	ccess	Cond	lition	Samp	le Number
(1)	Clean Up of ACM Debris	1` ′	Precautions for Access Which may Disturb ACM Debris	A	Accessible to all building occupants	Good	No visible damage or deterioration.	S####	Sample collected
(3)	ACM removal		Precautions for Work Which may Disturb ACM in Poor Condition	В	Accessible to maintenance and operations staff without a ladder	Fair	Minor, repairable damage, cracking or deterioration.	V####	Material is visually identified to be identical to S###
(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair	С	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	Poor	Irreparable damage or deterioration with exposed and missing material	V0000	Known non-asbestos material
(7)	Management program and surveillance			D	Not normally accessible or without demolition		: See report for full definitions of action, access ndition	V9000	Material is visually identified to contain asbestos
	-							V9500	Material is presumed to contain asbestos
NO	OTE: Actions in round brackets () are auto-calcul	lated	. Actions in square brackets [] are manual						resumed various materials identified in the re ACM if not sampled.

Mc Phillips Pumping Station

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Units SF - Square feet LF - Linear feet EA - Each % - Percentage



Building Number(s): 3

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 3 Building Name: Pump Building (Bldg. A) Surveyor: Jason Combe Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 1 Location Name: Pump Building - Floor: Basement-Pump Building Room #: Square ft: 9000

Location #. 1		Basement	unuing -	Floor. Dasem	ciit-i uiiip	Dunung	, Koon	ιι π•				Squ	are it.	7000		
System	Component	Material	Item	Covering	Access	Visible	Cond	lition,	Quanti	ity & A	Action		Units	Sample	Hazard	Friability
							Good	ı	Fair		Poor	r				
Floor	All	Plaster	Surface	Ceramic Tiles	Α	Y	100	(5)					%	V9500	Presumed Asbestos	Friable
Floor	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N	100	(7)					%	V9500	Presumed Asbestos	Non-Friable
Piping one	Domestic Water (Hot & Cold)	Parging over Fibreglass	Fitting	Canvas	С	Υ	8	(7)					EA	S0004	Confirmed Asbestos	Friable
Piping two	Rain Water Leader	Sweat Wrap Pipe Insulation	Straight	Canvas	С	Υ	240	(7)		[6]			LF	V0001	Confirmed Asbestos	Friable
Piping two	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	С	Υ	30	(7)	2	(6)	1	(3)	EA	V0007	Confirmed Asbestos	Friable
Piping	Chilled Water Supply	Parging Cement	Fitting	Canvas	С	Y	13	(7)					EA	V0004	Confirmed Asbestos	Friable
Piping	Chilled Water Return	Parging Cement	Fitting	Canvas	С	Υ	21	(7)					EA	V0004	Confirmed Asbestos	Friable
Duct	Fresh Air Intake	Parging over Fibreglass	Fitting	Canvas	С	Υ	8	(7)					EA	S0005	Confirmed Asbestos	Friable
Duct	Fresh Air Intake	Sweat Wrap Pipe Insulation	Straight	Canvas	С	Y	140	(7)					LF	S0001	Confirmed Asbestos	Friable
Duct	Generator Exhaust	Magnesia block	System	Metal	С	Y	145	(7)					LF	S0003	Confirmed Asbestos	Friable

Note: Grout (masonry mortar/cement/plaster) on floor tiles is presumed asbestos containing. Damaged fittings present June 2017, June 2018, July 3 2019

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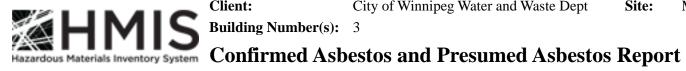
Building Number(s): 3

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 3 Reassessment Date:20	Building Name: Pump 019-07-03	Building (Bldg. A) Reassessment Surveyor:	Surveyor: Ja Lambert Cru			Survey	Date: 2	2006-0)5-01					
Location #: 2		Location Name: Pump B Chlorine Analyzer Room	uilding -	Floor: Main-P	ump Buil	lding	Room	ı #:			Square ft: 2	225		
System	Component	Material	Item	Covering	Access	Visible		_	Quantity &			Sample	Hazard	Friability
							Good		Fair	Poor				
Floor	All	Plaster	Surface	Ceramic Tiles	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Floor	All	Adhesive/mastic	Surface	Ceramic Tiles	Α	N	100	(7)			%	V9500	Presumed Asbestos	Non-Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Wall	All	Plaster	Surface	Preformed Block	A	Y	100	(5)			%	V9500	Presumed Asbestos	Friable
Piping three	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	С	Y	6	(7)			EA	V0006	Confirmed Asbestos	Friable
Piping one	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	С	Y	2	(7)			EA	V0007	Confirmed Asbestos	Friable
Piping one	Rain Water Leader	Sweat Wrap Pipe Insulation	Straight	Canvas	С	Y	16	(7)			LF	V0001	Confirmed Asbestos	Friable
Piping two	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	С	Y	6	(7)			EA	S0006	Confirmed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls/floor tiles is presumed asbestos containing.

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Building #: 3 Reassessment Date:	U		Reassessment Surveyor: Lambert Cruz			Survey)5-01			G 64			
Location #: 3		Washroom	Location Name: Pump Building - Washroom		Floor: Main-Pump Building			Room #:				Square ft			
System	Component	Material	Item	Covering	Access	Visible	Cond	Condition, Quantity & Action			ion	Units Sample		Hazard	Friability
							Good	1	Fair		Poor				
Floor	All	Plaster	Surface	Ceramic Tiles	Α	Y	100	(5)				%	V9500	Presumed Asbestos	Friable
Floor	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N	100	(7)				%	V9500	Presumed Asbestos	Non-Friable
Wall	All	Plaster	Surface	Preformed Block	. A	Y	100	(5)				%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)				%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls/floor tiles is presumed asbestos containing.

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Building Number(s): 3

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 3 Reassessment Date:2019		ame: Pump Building (Bldg. A) Surveyor: Jason Combe Reassessment Surveyor: Lambert Cruz							Survey Date: 2006-05-01								
Location #: 4		Location Name: Pump Building Vestibule/Stairwell		Floor: Main-Pump Bui		lding	Room	ı #:			Square ft: 4	50					
System	Component	Material	Item	Covering	Access	Visible		_	Quantity			Sample	Hazard	Friability			
							Good		Fair	Poor							
Floor	All	Plaster	Surface	Ceramic Tiles	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable			
Floor	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N	100	(7)			%	V9500	Presumed Asbestos	Non-Friable			
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable			
Wall	All	Plaster	Surface	Preformed Block	А	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable			
Wall	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N	100	(7)			%	V9500	Presumed Asbestos	Non-Friable			
Wall	All	Plaster	Surface	Ceramic Tiles	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable			
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	С	Υ	1	(7)			EA	V0007	Confirmed Asbestos	Friable			
Piping	Rain Water Leader	Sweat Wrap Pipe Insulation	Straight	Canvas	С	N	3	(7)			LF	V0001	Confirmed Asbestos	Friable			

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls/floor tiles is presumed asbestos containing.

Mc Phillips Pumping Station

Site:

Building Number(s): 3

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 3 Survey Date: 2006-05-01 **Building Name: Pump Building (Bldg. A) Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 5 **Location Name: Pump Building -**Floor: Main-Pump Building Room #: Square ft: 350

		Control Room												
System	Component	Material	Item	Covering	Access	Visible	Condition, Quantity & Action			Units	Sample	Hazard	Friability	
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	A	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Building #: 3 **Building Name: Pump Building (Bldg. A) Surveyor: Jason Combe** Survey Date: 2006-05-01

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 6 **Location Name: Pump Building -**Floor: Main-Pump Building Square ft: 400 Room #:

		Electrical Room													
System	Component	Material	Item	Covering	Access	Visible	Cond	Condition, Quantity & Action			ction	Units	Sample	Hazard	Friability
							Good		Fair		Poor				
Wall	All	Plaster	Surface	Preformed Block	Α	Υ	100	(5)				%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)				%	V9500	Presumed Asbestos	Friable
Piping	Rain Water Leader	Sweatwrap	Straight	Canvas	В	Y	10	(7)				LF	V0001	Confirmed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Building Number(s): 3

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Building #: 3 Survey Date: 2006-05-01 **Building Name: Pump Building (Bldg. A) Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 7 Location Name: Pump Building - Filter Floor: Main-Pump Building Room #: Square ft: 250

		Room												
System	Component	Material	Item	Covering	Access	Visible	Condi	ition, (Quantity &	Action	Units	Sample	Hazard	Friability
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Preformed Block	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall		Vermiculite	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable
Piping	Rain Water Leader	Parging Cement	Fitting	Canvas	С	Υ	5	(7)			EA	V0007	Confirmed Asbestos	Friable
Piping	Rain Water Leader	Sweatwrap	Straight	Canvas	С	Υ	15	(7)			LF	V0001	Confirmed Asbestos	Friable

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Site:

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Survey Date: 2006-05-01 Building #: 3 **Building Name: Pump Building (Bldg. A) Surveyor: Jason Combe**

Reassessment Date: 2019-07-03 Reassessment Surveyor: Lambert Cruz

Location #: 42 **Location Name: Pump Building** Floor: NA Square ft: Room #:

		Exterior												
System	Component	Material	Item	Covering	Access	Visible	e Condition, Quantity & Action		Action	Units	Sample	Hazard	Friability	
							Good		Fair	Poor				
Wall	All	Plaster	Surface	Quarry tile	Α	Υ	100	(5)			%	V9500	Presumed Asbestos	Friable
Wall	Exterior	Tar			А	Υ	100	(7)			%	S0016	Confirmed Asbestos	Non-Friable
Wall		Vermiculite/concrete block walls	Insulation	Masonry	В	N	100	(7)			%	V9500	Presumed Asbestos	Friable

Note: Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept Site:

Building Number(s): 3

Hazardous Materials Inventory System Confirmed Asbestos and Presumed Asbestos Report

Legend:

Action				Ac	cess	Conc	lition	Sample Number			
(1)	Clean Up of ACM Debris	(2)	Precautions for Access Which may Disturb ACM Debris	A	Accessible to all building occupants	Good	No visible damage or deterioration.	S####	Sample collected		
(3)	ACM removal	1, ,	Precautions for Work Which may Disturb ACM in Poor Condition	В	Accessible to maintenance and operations staff without a ladder	Fair	Minor, repairable damage, cracking or deterioration.	V####	Material is visually identified to be identical to S###		
(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair	С	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	Poor	Irreparable damage or deterioration with exposed and missing material	V0000	Known non-asbestos material		
(7)	Management program and surveillance			D	Not normally accessible or without demolition		: See report for full definitions of action, access andition	V9000	Material is visually identified to contain asbestos		
								V9500	Material is presumed to contain asbestos		
NC	NOTE: Actions in round brackets () are auto-calculated. Actions in square brackets [] are manual								resumed various materials identified in the re ACM if not sampled.		

Mc Phillips Pumping Station

% - Percentage

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Units SF - Square feet LF - Linear feet EA - Each