

APPENDIX B

RESOURCE INFORMATION/INTERVIEWS

REGULATORY CONTACTS AND HISTORICAL SOURCES

Source	Information/Contact
Prince Edward Island Department of Environment, Energy and Forestry (PEIDEEF)	Glenda MacKinnon-Peters, FEC, P.Eng., Hazardous Materials Specialist (902) 368-5000
Environment Canada	Request not submitted to Environment Canada
Aerial Photographs	1935, 1958, 1974 1990, and 2000
City Directories	Not applicable
Fire Insurance Maps	Not applicable
PWGSC Office Files	None provided
Interviews	Mr. Paul Ayles, Acting Environmental Protection Officer and Geomatics Technician, Parks Canada (Charlottetown) – 902.672.6380
Previous Environmental Site Investigations from Other Sources	JWL - Phase I/II Environmental Site Assessment – Parks Canada, Cavendish Compound, Queens County, PE, Final report dated March 2010 (file no 91642)
Other Sources (maps, Figures, etc.)	J. I. MacDougall, C. Veer and F. Wilson, 1988, Soils of Prince Edward Island, Prince Edward Island Soil Survey, Research Branch – Agriculture Canada H.W. van de Poll, 1977, Geological Map of Prince Edward Island

INTERVIEW QUESTIONS – Cavendish

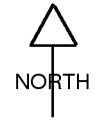
Interviewee: Paul Ayles	Title: Geomatics Specialist – Environmental Protection Officer	Phone No.: (902) 672-6380	Date: Sept 23, 2010
Interviewer: Danya MacGillivray			
Questions	Don't Know	Answers	
Do standard Parks Canada keys open all buildings/structures and rooms in buildings on site?		No standard Keys do not cover all buildings	
Are buildings all privately-owned or are any owned by Parks Canada?		Yes	
Describe ground cover at the site (grass, gravel, asphalt, concrete, soil, fill)? Has there been any fill brought in to the site, where was it placed, what was the source?		<p>Campground Fill – gravel for the roads Ground cover – mixed hardwood forest</p> <p>Grahams Lane Regenerating old field white spruce</p> <p>Route 13 Grass and asphalt/gravel</p> <p>Cavendish East Day Use Grass</p> <p>Compound Grass and/or asphalt</p> <p>Cavendish Grove Grass/gravel trails – mix of trees and vegetation</p>	
What is the site currently used for (if storage, what is stored)? How many/what type of buildings/structures are on site? Note any information on sale of structures and dates.		<p>Campground - camping</p> <p>Grahams lane - Nothing</p> <p>Cavendish East Day Use – Washroom facility</p> <p>Route 13 – Nothing/storage</p> <p>Compound – storage</p> <p>Cavendish Grove – Park and walking trails/ski trails</p>	

Interviewee: Paul Ayles	Title: Geomatics Specialist – Environmental Protection Officer	Phone No.: (902) 672-6380	Date: Sept 23, 2010
Interviewer: Danya MacGillivray			
Questions	Don't Know	Answers	
What was the site previously used for? Were there other buildings/structures on the site in the past, where were they? Note any information on sale of structures and dates.		Campground - agriculture Grahams lane - agriculture Cavendish East Day Use – agriculture/cottages Route 13 – agriculture Compound – agriculture Cavendish Grove – agriculture, amusement park	
Former/existing structure's power and heating supply/type(s)? if coal, note coal storage locations.		Grahams Lane - Had over head line – no heat but shepards cottage had hot water heat – furnace oil potentially. Route 13 – Staff Houses - oil heat Remaining Sites, no heat	
Any environmental issues of concern (spills in the area, upgradient or on-site landfills or waste disposals, area of fill placement on-site, air emissions of concern, current/historical pesticide/herbicide use, gas stations, vehicle maintenance, dry cleaners, tanneries, fish plants, foundries, etc)? Did they note any staining (approximate area of staining and type/source)?		No	
Any standing water, drainage ditches or watercourses on subject property? note source of water or beginning of watercourse (upgradient lake, river, swamp, etc.)		Campground – wetland in the middle – Clarke's Pond (tidal) to east Route 13 – Riparian (wetland stream) runs through balsam hollow brook	
Locations of former/existing fuel storage tanks (gas, diesel, lube, hydraulic, kerosene, underground and above ground, including waste tanks such as waste oil)?		Campground - Outside of washroom buildings - furnace oil approx 8 Grahams lane - Potentially in the past – currently removed Route 13 – fuel oil tanks	
Use/locations of former/existing back-up generators (diesel tank, lube oil) or fog alarm (air compressor, diesel tank)?		No	
Locations of former/existing chemical storage (method of storage, type of chemical, use and time frames)?		No	

Interviewee: Paul Ayles	Title: Geomatics Specialist – Environmental Protection Officer	Phone No.: (902) 672-6380	Date: Sept 23, 2010
Interviewer: Danya MacGillivray			
Questions	Don't Know	Answers	
Battery use, storage, and method of disposal? Type of battery (lead, zinc)?		No	
Electricity underground or above ground?		Campground - Underground/above ground Grahams lane – above ground Route 13 – above ground Cavendish Grove – Underground Day Use – Underground Compound - underground	
Former/existing structure building materials (including roof (asphalt singles?) and foundation type (creosote piles or wolmainized lumber)) – note required for all buildings as well as their current/historical use?		As per report	
Former/existing lighting types – mercury vapour?		Bulb with occasion fluorescent	
Ballasts associated with lighting?		Yes with the fluorescent lighting	
Former/existing transformers – type and time frame? (Including Maritime Electric/NS &NB Power)		Yes – but all PCB containing transformers were replaced in '99 with non-pcb containing type	
Any known PCBs, UFFI or asbestos?		No PCB – just ACMs identified during HAZMAT	
Any known lead piping, lead based paints, or other lead materials?		Possible lead paint	
Any known refrigeration equipment or air conditioning units?		No	
Any fire extinguishing devices on the property?		Campground - In the washroom utility rooms and kiosks Not anymore in the buildings no longer in use	
Former/existing helicopter landing pad?		No	
Locations/Dates of former/existing burn pits?		No	
Subject and adjoining properties water supply – note former and existing well locations, decommissioned/in use, and time frames?		Each Site has its own well	

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Interviewer: Danya MacGillivray			
Questions	Don't Know	Answers	
Subject property wastewater disposal – note former and existing septic tanks and fields, wastewater outlets and freshwater intakes?		Sites are either serviced by individual septic or on the “town” system which utilizes the lagoons south of the camp ground. Septic – VIC, Staff Houses, Cavendish East Day Use and the Grove System – Campground, Compound	
Former/existing trenches, sump, oil-water separators, floor drain locations – discharge to?		Campground - Floor drains in bathrooms go to septic	
Types of waste generated, process effluent, method of disposal/removal, frequency, commencing since what date, former disposal method, name of licensed contractor?		Regular domestic waste and dumpsters serviced by the park and municipal	
Any vehicle, boat, equipment, or forklift maintenance on-site or on adjoining properties?		No	
Any hydraulic lifts, hoists, or elevators? aboveground or underground hydraulic oil chambers?		No	
Any former/existing railway lines on-site or along property boundaries?		No	
Any electronics on-site? age (PCBs)?		No	
Confirm property boundaries.		N/A	

<u>Parcel</u>	<u>Map #</u>	<u>Property Location</u>	<u>Owner Name & Mailing Address</u>	
231829	11L602F4	CAVENDISH	GOVERNMENT OF CANADA MUNICIPAL GRANTS DIVISION CHARLOTTETOWN PE C1A 7M8	
Original Prop No:				
Lot/Township #:	22			
School Unit #:	3			
<u>Parcel and Lease</u>	<u>Acreage</u>	<u>Assessment Values</u>	<u>Taxable</u>	<u>Designated Taxpayer and Mailing Address</u>
231829 - 0	5.0	Commercial:	0	GOVERNMENT OF CANADA
Account Status:	A	Non Commercial:	\$ 31000	31000
		Residential:	0	0
Farm Qual:	N	Farm:	0	0
Municipality:	2525	Resort Municipality		CHARLOTTETOWN PE MUNICIPAL GRANTS DIVISION C1A 7M8
% in Municip:	100			<u>Dates</u>
Spec Prop Code:	202			Assessment Effective:
MHI Number:				Last Owner Chg: 30-MAR-84
				Initially Filed: 01-JAN-00
				Dormant:
Owner ID Code:	411			
Ownership Code:	C61			
Tax Exempt Code:	501			



PROVINCE OF PEI DEPARTMENT OF
PROVINCIAL TREASURY
GEOMATICS INFORMATION CENTRE
11 KENT ST. CHARLOTTETOWN
PEI C1A 7NB

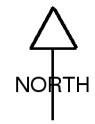
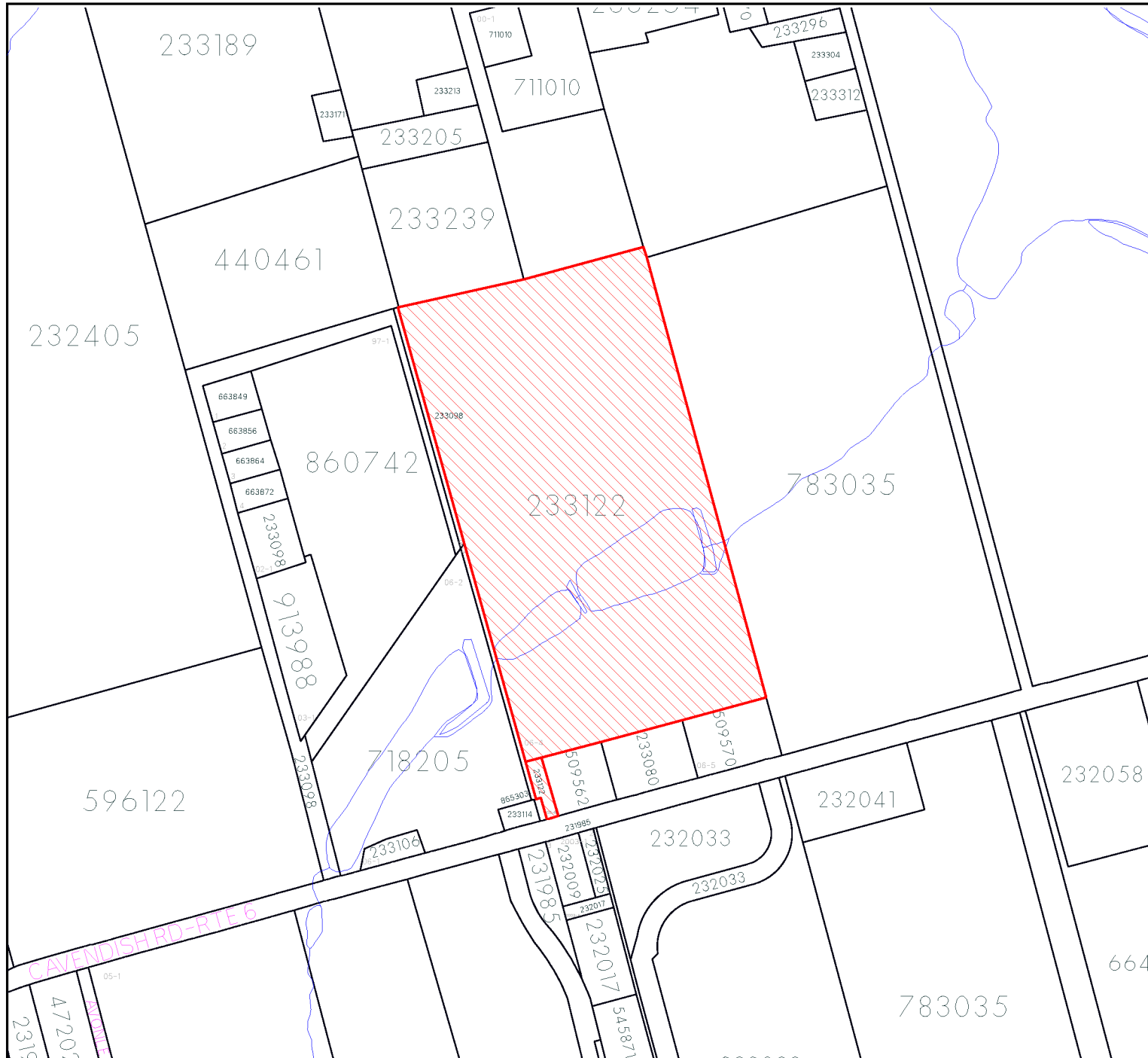
PHONE: 902-368-5167
FAX: 902-368-5255

WHILE THIS MAP MAY NOT BE FREE
FROM ERROR OR OMISSION, CARE HAS
BEEN TAKEN TO ENSURE THE BEST
POSSIBLE QUALITY. THIS MAP IS A
GRAPHICAL REPRESENTATION. IT IS NOT
INTENDED TO BE USED TO CALCULATE
EXACT DIMENSIONS OR AREAS.

SCALE: 1:5502
DATE: Sep 22, 2010
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ACREAGE: 4.15
WORK UNIT: 8021



<u>Parcel</u>	<u>Map #</u>	<u>Property Location</u>	<u>Owner Name & Mailing Address</u>	
233122	11L062F1	8780 CAVENDISH RD - RTE 6 CAVENDISH	GOVERNMENT OF CANADA MUNICIPAL GRANTS DIVISION CHARLOTTETOWN PE C1A 7M8	
Original Prop No:				
Lot/Township #:	23			
School Unit #:	3			
<u>Parcel and Lease</u>	<u>Acreage</u>	<u>Assessment Values</u>	<u>Taxable</u>	<u>Designated Taxpayer and Mailing Address</u>
233122 - 0	27.2	Commercial:	0	GOVERNMENT OF CANADA
Account Status:	A	Non Commercial:	\$ 216700	216700
		Residential:	0	CHARLOTTETOWN
Farm Qual:	N	Farm:	0	PE
				MUNICIPAL GRANTS DIVISION C1A 7M8
Municipality:	2525	Resort Municipality		<u>Dates</u>
% in Municip:	100			Assessment Effective:
Spec Prop Code:	202			Last Owner Chg: 03-NOV-05
MHI Number:				Initially Filed: 01-JAN-00
				Dormant:
Owner ID Code:	411			
Ownership Code:	C61			
Tax Exempt Code:	501			



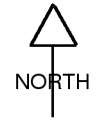
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WORK UNIT: 8021

<u>Parcel</u>	<u>Map #</u>	<u>Property Location</u>			<u>Owner Name & Mailing Address</u>
545848	11L62F4	BAYVIEW			GOVERNMENT OF CANADA MUNICIPAL GRANTS DIVISION CHARLOTTETOWN PE C1A 7M8
Original Prop No:					
Lot/Township #:	22				
School Unit #:	3				
<u>Parcel and Lease</u>	<u>Acreage</u>	<u>Assessment Values</u>		<u>Taxable</u>	<u>Designated Taxpayer and Mailing Address</u>
545848 - 0	26.34	Commercial:		0	GOVERNMENT OF CANADA
Account Status:	A	Non Commercial:	\$ 72400	72400	
		Residential:		0	CHARLOTTETOWN
Farm Qual:	N	Farm:		0	PE MUNICIPAL GRANTS DIVISION C1A 7M8
Municipality:	2525	Resort Municipality			<u>Dates</u>
% in Municip:	100				
Spec Prop Code:	202				
MHI Number:					
Owner ID Code:	411				
Ownership Code:	C61				
Tax Exempt Code:	501				
					Assessment Effective: 01-JAN-10
					Last Owner Chg: 20-MAY-76
					Initially Filed: 01-JAN-00
					Dormant:



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GEOMATICS INFORMATION CENTRE
11 KENT ST. CHARLOTTETOWN
PEI C1A 7NB

PHONE: 902-368-5167
FAX: 902-368-5255

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SCALE: 1:5503
DATE: Sep 22, 2010
TIME: 03:15:18 PM
ACREAGE: 43.22
WORK UNIT: 8090

Pollution Prevention
P.O. Box 2000, Charlottetown
Prince Edward Island
Canada C1A 7N8

Prévention de la pollution
C.P. 2000, Charlottetown
Île-du-Prince-Édouard
Canada C1A 7N8

August 26, 2009

Via Email

Dale Conroy
Jacques Whitford Stantec Limited
165 Maple Hills Avenue
Charlottetown, PE
C1C 1N9

Dear Mr. Conroy:

RE: Site-Specific Environmental Review Request - (Parcel No. 232405) Cavendish, PE

In connection with the above property, we have the following information on record:

- On December 4, 1987, ten (10) 1960 2,270-litre underground petroleum storage tanks were removed under our supervision (“Facility Name” was identified as “Cavendish Campground”). The tanks were classified as leakers. Contaminated soil was removed. The cleanups and tank removals were completed to the satisfaction of the Department.
- On November 1, 1990, one (1) 1970 4,500-litre underground petroleum storage tank was removed under our supervision (“Facility Name” was identified as “Cavendish Park Maintenance Shop”). The tank was classified as non-leaker. The tank removal was completed to the satisfaction of the Department.
- On November 9, 1990, one (1) 1984 2,270-litre underground petroleum storage tank was removed under our supervision (“Facility Name” was identified as “Cavendish Park Maintenance Shop”). The tank was classified as non-leaker. The tank removal was completed to the satisfaction of the Department.
- Our tank database shows that there is one (1) active 1979 2,270-litre fuel oil underground tank (“Facility Name” was identified as “Cavendish Campground”); one (1) active 1980 2,270-litre fuel oil, and one (1) active 1981 2,200-litre gasoline underground tank (“Facility Name” was identified as “Green Gable Golf Course”); one (1) 1990 4,546-litre diesel, and one (1) 1990 2,273-litre gasoline underground tank (“Facility Name” was identified as “Cavendish Park Maintenance Shop”).
- The aboveground home heat storage tanks listed below have the Department’s identification label affixed to them as required under Section 30 of the Petroleum Storage Tanks Regulation under the *Environmental Protection Act*.

Owner’s Information	Civic Address	Year of Tank Manufacture
Government of Canada	7591 Cavendish Rd	2004
Government of Canada	7591 Cavendish Rd	2004

Government of Canada	327 Grahams Rd	2004
Government of Canada	327 Grahams Lane	2004
Government of Canada	7451 Mayfield Rd	2007

- The Department has no records on file for any non-compliance environmental issues, outstanding charges or Ministerial Orders, or operating air quality permits for the above-mentioned property.

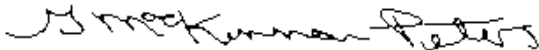
Please note our tank database records on federal lands have not been up-dated since 1993.

The above summary pertaining to the tank removal is based upon visual and olfactory observations in the area of the tank excavation only. It solely reflects the integrity of the system at the time of the removal and what, if any, impacts that system's operation had on the soils immediately adjacent to the system.

Please consider the enclosed invoice as our acknowledgment of payment for the August 17th request meets the fee requirements pursuant to Section 2.(2) of the Environmental Records Review Regulations under the *Environmental Protection Act*.

If you have any questions regarding the above, please call me at (902) 368-5047.

Sincerely,



Glenda MacKinnon-Peters, FEC, P.Eng.
Hazardous Materials Specialist

/gmp

enc

aud1816.let



Environment,
Energy and Forestry

Environment

P.O. Box 2000, Charlottetown
Prince Edward Island
Canada C1A 7N8



Environnement,
Énergie et Forêts

Environnement

C.P. 2000, Charlottetown
Île-du-Prince-Édouard
Canada C1A 7N8

October 1, 2010

Via Email

Danya MacGillivray
Stantec Consulting Limited
165 Maple Hills Ave.
Charlottetown, PE
C1E 1K1

Dear Ms. MacGillivray:

RE: Phase I Environmental Site Assessment - Cavendish (Parcel No. 233122), National Park, P.E.I.

The Department has completed a review of our records as per your request made in your September 22, 2010 Site Specific Environmental Review application. We have the following information for the properties listed below:

Properties identified as PID#'s 233122, 545848 & 231829

In connection with the above properties,

- The Department has no records on file for any non-compliance environmental issues, outstanding charges or Ministerial Orders, underground petroleum storage tanks or operating air quality permits.

Please consider the enclosed invoice as our acknowledgment of payment for the September 22nd request meets the fee requirements pursuant to Section 2.(2) of the Environmental Records Review Regulations under the *Environmental Protection Act*.

If you have any questions regarding the above, please call me at (902) 368-5047.

Sincerely,

A handwritten signature in cursive script that reads 'G. MacKinnon-Peters'.

Glenda MacKinnon-Peters, FEC, P.Eng
Hazardous Materials Specialist

gmp

enc

aud1996.let

APPENDIX C
SITE PHOTOGRAPHS



PHOTO No. 1: Cavendish Canteen – view from north.



PHOTO No. 2: Cavendish Canteen – view from northeast.



PHOTO No. 3: Cavendish Canteen – bathroom entrances – view east.



PHOTO No. 4: Cavendish Canteen – view from southwest.



PHOTO No. 5: Cavendish Canteen – Handicap Washroom access – view from south.



PHOTO No. 6: Cavendish Canteen – Handicap washroom.



PHOTO No. 7: Cavendish Canteen – Kitchen – north portion of building with handicap washroom.



PHOTO No. 8: Cavendish Canteen – Multi Purpose room.



PHOTO No. 9: Cavendish Canteen – Multi Purpose Room and hall to Kitchen



PHOTO No. 10: Cavendish Canteen – Interior Washrooms.



PHOTO No. 11: Cavendish Canteen – Fluorescent Light on washroom ceilings (potential PCB/mercury containing).



PHOTO No. 12: Cavendish Grove Art Barn – view from southeast.



PHOTO No. 13: Art Barn – view from west.



PHOTO No. 14: Art Barn – Interior – apparent mold.



PHOTO No. 15: Art Barn – Upstairs.



PHOTO No. 16: Art Barn – Upstairs.



PHOTO No. 17: Cavendish Maintenance Barn – view from west.



PHOTO No. 18: Maintenance Barn – Front of Kitchen Shelter (view from northwest).



PHOTO No. 19: Maintenance Barn – Fluorescent Light – Attic



PHOTO No. 20: Maintenance Barn – Shed Adjacent to Maintenance Barn.



PHOTO No. 21: Asset No. 404 - Visitor's Information Centre (VIC) – view from east.



PHOTO No. 22: Asset No. 404 – north side of building - photo facing southwest



PHOTO No. 23: Asset No. 404 – north side of building photo facing east.

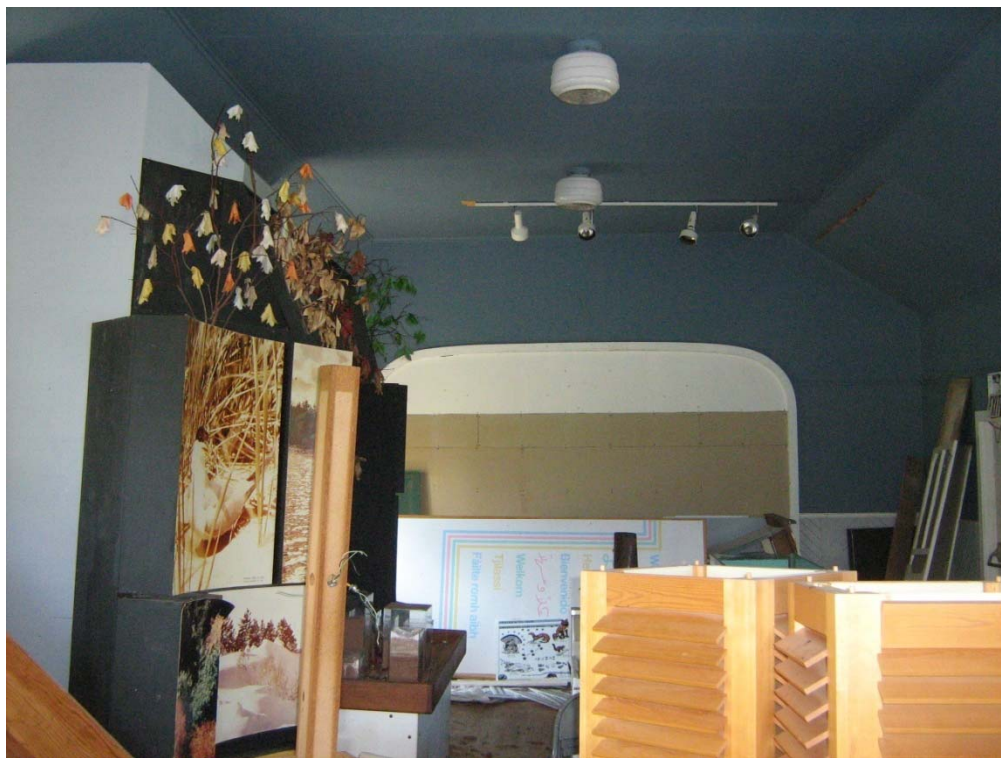


PHOTO No. 24: Asset No. 404 – Interior



PHOTO No. 25: Asset No. 404 – Interior.



PHOTO No. 26: Asset No. 404 – Interior.



PHOTO No. 27: Asset No. 404 – Fluorescent light ballasts in projection room (potential PCB containing).



PHOTO No. 28: Asset No. 404 – office south side of projection room .



PHOTO No. 29: Asset No. 112 - Sheppard Cottage – Staff House – view from northwest (Asbestos containing siding).



PHOTO No. 30: Asset No. 112 – view from west.



PHOTO No. 31: Asset No. 112 – Kitchen



PHOTO No. 32: Asset No. 112 – Living Area.



PHOTO No. 33: Asset No. 112 – Bedroom.



PHOTO No. 34: Asset No. 112 – Bedroom Floor – carpet, ceiling tiles and mold.



PHOTO No. 35: Asset No. 8106 – Washroom and Kitchen Shelter – view from southeast.



PHOTO No. 36: Asset No. 8106 – view from east.



PHOTO No. 37: Asset No. 8109 – Rear of building – view from north.



PHOTO No. 38: Asset No. 106 – Staff House – view from northwest.



PHOTO No. 39: Asset No. 106 – view from east.



PHOTO No. 40: Asset No. 106 – view from southwest.



PHOTO No. 41: Asset No. 106 – Living Room



PHOTO No. 42: Asset No. 106 – Kitchen.



PHOTO No. 43: Asset No. 117 – Garage with Asset 106 – view from east.



PHOTO No. 44: Asset No. 117 – Garage Interior.



PHOTO No. 45: Asset No. 108 – Staff House – view from east.



PHOTO No. 46: Asset No. 108 – view from north.



PHOTO No. 47: Asset No. 108 – view from southwest.



PHOTO No. 48: Asset No. 108 – view from west.



PHOTO No. 49: Asset No. 108 – kitchen



PHOTO No. 50: Asset No. 108 – Fluorescent light (potential PCB/mercury containing).



PHOTO No. 51: Asset No. 108 – Interior master bedroom.



PHOTO No. 52: Asset No. 108 – Bathroom.



PHOTO No. 53: Asset No. 108 – Bedroom #2

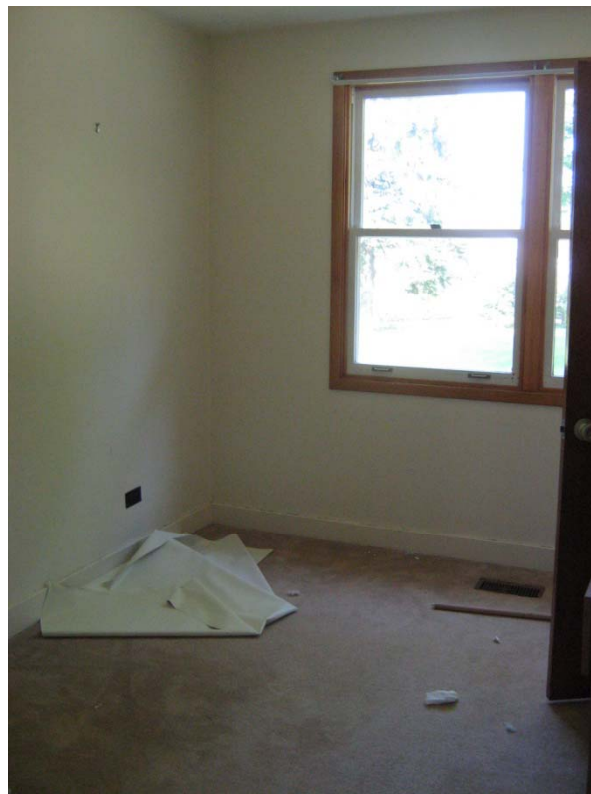


PHOTO No. 54: Asset No. 108 – Bedroom #3.



PHOTO No. 55: Asset No. 108 – Interior – Living Area.



PHOTO No. 56: Asset No. 108 – Interior - Living Area.



PHOTO No. 57: Asset No. 108 – Basement.



PHOTO No. 58: Asset No. 108 – Basement.



PHOTO No. 59: Asset No. 118 – Garage associated with asset 108 – view from northeast.



PHOTO No. 60: Asset No. 118 – view from east.



PHOTO No. 61: Asset No. 118 – Interior.



PHOTO No. 62: Asset No. 8087 – Kitchen Shelter – view from southeast.



PHOTO No. 63: Asset No. 8087 – view from northeast



PHOTO No. 64: Asset No. 307 – Industrial Storage Building – view from southwest.



PHOTO No. 65: Asset No. 303 – Trades Building – view from northeast.



PHOTO No. 66: Asset No. 303 – Interior Office



PHOTO No. 67: Asset No. 303 – Interior Kitchen/Lunchroom.



PHOTO No. 68: Asset No. 303 – Fluorescent Light (potential PCB/mercury containing).



PHOTO No. 69: Asset No. 303 – Fluorescent Light (potential PCB/mercury containing).



PHOTO No. 70: Asset No. 303 – Trades Building – Bay storage area.



PHOTO No. 71: Asset No. 310 – Paint Grounds Building – view from east.

APPENDIX D

ANALYTICAL TABLES AND FIELD OBSERVATIONS

Table D-1. Lead Concentrations in Paint Samples

Sample ID	Sample Date	Sample Location	Condition	Colour	Total Painted Surface Area (m ²)	Sample Area (cm ²)	Total Sample Weight (g)	Lead Concentration		
								Paint		Paint Leachate
								mg/kg	mg/cm ²	mg/L
Asset - Canteen - Cavendish Grove										
PS-1	1-Sep-10	Exterior Window Trim	Fair	White	1	20	0.5	370	0.01	-
PS-2	1-Sep-10	Floor Paint - main area	Fair to	Brown	82	200	5.6	<50	-	-
DUP1	1-Sep-10	-	-	-	-	-	6.8	<50	-	-
PS-2 LD	-	-	-	-	-	-	-	<50	-	-
PS-3	1-Sep-10	Interior Wall - Kitchen and bath	Good	White	9	20	0.6	<80	-	-
PS-4	1-Sep-10	Floor Paint - bathroom	Good	Grey	10	50	0.7	<70	-	-
Asset - Maintenance Building - Cavendish Grove										
PS-5	1-Sep-10	Exterior Walls	Fair	White	60	75	1.9	740	0.02	-
PS-6	1-Sep-10	Exterior Trim	Poor	Green	9	150	2.4	<50	-	-
PS-7	1-Sep-10	Exterior Walls - Shed	Poor	Red	25	20	1.7	13,000	1.11	-
PS-8	1-Sep-10	Exterior Trim - Shed	Fair	White	3	30	1.1	890	0.03	-
Asset - Art Barn - Cavendish Grove										
PS-9	1-Sep-10	Exterior Walls	Fair	White on Red	155	100	5.8	5,100	0.30	2.1
DUP2	1-Sep-10	-	-	-	-	-	3.3	5,400	-	-
PS-9 LD	-	-	-	-	-	-	-	5,200	-	-
PS-10	1-Sep-10	Exterior Trim	Fair	Green	7	75	0.3	<200	-	-
PS-11	1-Sep-10	Exterior Foundation	Poor	Grey	18	150	5.6	<50	-	-
PS-12	1-Sep-10	Interior Counter Base	Good	Blue	12	20	0.5	22,000	0.55	-
PS-13	1-Sep-10	Interior Wall	Good	Red	12	20	0.6	2,600	0.08	-
PS-14	1-Sep-10	Interior Wall/Ceiling	Good	White	170	75	7.9	260	0.03	-
Asset No. 404 - Visitor Information Centre - Grahams Lane										
PS-15	1-Sep-10	Interior Ceiling	Fair to Poor	White	35	100	1.6	570	0.01	-
PS-16	1-Sep-10	Exterior Walls	Poor	White	160	200	6.6	31,000	1.02	61
PS-17	1-Sep-10	Exterior Trim	Poor	Beige	12	200	12.9	63,000	4.06	67
DUP3	1-Sep-10	-	-	-	-	-	10.2	48,000	-	-
DUP3 LD	-	-	-	-	-	-	-	49,000	-	-
PS-18	1-Sep-10	Interior Walls and Ceiling	Fair	Blue	360	80	0.4	740	0.00	-
PS-19	1-Sep-10	Interior Walls	Fair	Light Gray	70	50	0.6	730	0.01	-
Asset No. 112 - Sheppard Cottage - Grahams Lane										
PS-20	1-Sep-10	Exterior Trim	Poor	Beige	9	80	2.4	460	0.01	-
PS-21	1-Sep-10	Step	Poor	Red	4	50	0.5	570	0.01	-
PS-22	1-Sep-10	Exterior hand rail	Poor	white	2	30	0.7	4,300	0.10	-
Asset No. 8087 - Kitchen Shelter - Cavendish Campground										
PS-23	1-Sep-10	Exterior Trim	Fair	Green	6	50	4.4	33,000	2.90	32
PS-24	1-Sep-10	Exterior and Interior Walls	Fair	White	90	100	5.1	58	0.00	-
PS-25	1-Sep-10	Interior lower walls	Good	Grey	30	30	2.1	19,000	1.33	-
Asset No. 8106 - Washroom/Kitchen Shelter - Cavendish East Day Use										
PS-26	1-Sep-10	Exterior White Trim and Interior Wa	Good	White	30	20	0.8	260	0.01	-
PS-27	1-Sep-10	Door	Fair	Yellow	12	50	1.9	9,000	0.34	-
PS-28	1-Sep-10	Interior - bathroom	Good	White	40	20	0.6	390	0.01	-
Asset No. 118 - Storage Barn - Route 13										
PS-29	1-Sep-10	Exterior Trim	Poor	Beige	6	200	6.3	38,000	1.20	41
PS-30	1-Sep-10	Exterior Walls	Poor	White	120	80	5.5	36,000	2.48	35
PS-34	1-Sep-10	Floor	Good	Grey	47	10	0.2	<50	-	-
Asset No. 108 - Staff House - Route 13										
PS-31	1-Sep-10	Exterior Trim	Poor	Beige	6	150	3.0	470	0.01	-
PS-32	1-Sep-10	Exterior Walls	Poor	White	120	200	3.1	900	0.01	-
PS-33	1-Sep-10	Foundations	Poor	Grey	20	30	10.7	12,000	4.28	40
PS-35	1-Sep-10	Interior Ceiling	Poor	White	80	100	4.6	480	0.02	-
PS-36	1-Sep-10	Interior Walls	Fair	Beige	250	50	3.0	16,000	0.96	31
PS-36 LD	-	-	-	-	-	-	-	16,000	-	-
PS-37	1-Sep-10	Exterior - Oil Tank Cover	Poor	Brown	16	50	1.2	11,000	0.26	-
PS-38	1-Sep-10	Exterior Step	Poor	Red	8	80	2.4	240	0.01	-
Asset No. 117 - Storage Garage - Route 13										
PS-39	1-Sep-10	Exterior Trim	Fair	White	4	30	1.5	56,000	2.80	-
PS-40	1-Sep-10	Interior Walls and Ceiling	Good	Aqua	120	20	0.4	2,300	0.05	-

Table D-1. Lead Concentrations in Paint Samples

Sample ID	Sample Date	Sample Location	Condition	Colour	Total Painted Surface Area (m ²)	Sample Area (cm ²)	Total Sample Weight (g)	Lead Concentration		
								Paint		Paint Leachate
								mg/kg	mg/cm ²	mg/L
Asset No. 106 - Staff House - Route 13										
PS-41	1-Sep-10	Exterior Foundation	Poor	Grey	20	30	2.4	1,500	0.12	-
DUP4	1-Sep-10	-	-	-	-	-	2.7	1,300	-	-
PS-42	1-Sep-10	Interior Ceiling	Fair	White	100	150	2.2	<50	-	-
PS-43	1-Sep-10	Interior Walls	Good to Fair	Beige	240	100	2.7	760	0.02	-
PS-44	1-Sep-10	Interior - Basement Wall	Fair	White	25	75	4.6	3,300	0.20	-
PS-45	1-Sep-10	Basement Floor	Fair to Poor	Grey	100	75	2.2	3,400	0.10	-
PS-46	1-Sep-10	Interior Trim	Good	White	4	20	0.5	<100	-	-
Asset No. 303 - Trades Building - Compound										
CA-D-PS-1	11-Sep-09	Exterior Wall	Fair	White	170	-	11.5	400 ¹	-	-
CA-D-PS-2	11-Sep-09	Bay Door	Fair	Red	30	-	12.9	2,400¹	-	-
CA-D-PS-3	11-Sep-09	Exterior Trim	Fair	Yellow	4	-	2.0	110 ¹	-	-
CA-D-PS-4	11-Sep-09	Trim and Doors	Fair	Brown	4	-	1.1	1,500¹	-	-
CA-D-PS-5	11-Sep-09	Interior Floor	Fair	Grey	170	-	10.0	260 ¹	-	-
CA-D-PS-6	11-Sep-09	Interior Wall	Fair	Yellow	160	-	4.8	530 ¹	-	-
CA-D-PS-7	11-Sep-09	Interior Wall	Fair	White	160	-	2.5	<50 ¹	-	-
Asset No. 307 - Industrial Storage Building - Compound										
PS-47	9-Sep-10	Exterior Walls (CA-E-PS-1)	Poor	White	69	-	2.5	67,000¹	-	<u>25</u>
PS-48	9-Sep-10	Exterior Trim (CA-E-PS-2)	Poor	Beige	4	-	2.5	18,000¹	-	<u>16</u>
PS-49	9-Sep-10	Exterior/Interior Trim (CA-E-PS-3)	Poor	White	2	-	2.0	64,000¹	-	<u>37</u>
Asset No. 310 - Paint Storage Building - Compound										
CA-A-PS-1	11-Sep-09	Exterior Wall	Fair	White	70	-	4.1	94 ¹	-	-
CA-A-PS-2	11-Sep-09	Exterior Trim	Fair	Yellow	2	-	8.1	78 ¹	-	-
CA-A-PS-3	11-Sep-09	Door Jam	Fair	Red	<1	-	3.0	420 ¹	-	-
CA-A-PS-4	11-Sep-09	Interior Trim	Fair	Grey	<1	-	0.4	<50 ¹	-	-

PROVINCIAL

Draft Provincial guideline for the disposal of lead paint and lead painted material dated February 2005	N/A	N/A	N/A	1,000	N/A	N/A
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FEDERAL

Health Canada guideline for heavily leaded paint	N/A	N/A	N/A	N/A	5	N/A
Health Canada guideline requiring precautions for children and pregnant women	N/A	N/A	N/A	N/A	1	N/A
Surface Coating Materials Regulation (Canada Gazette Part II, Vol. 139, No. 9	N/A	N/A	N/A	600	N/A	N/A
Limit for lead leachate toxicity from the Export and Import of Hazardous Waste and	N/A	N/A	N/A	5,000	N/A	5

Notes:

Bolded results exceed provincial disposal criteria and/or Health Canada guideline for heavily leaded paint

Bolded and underlined results exceed the lead leachate guideline

Most current version of guidelines accessed April 2010

¹ - lead content results from previous report (Jacques Whitford Limited: Phase I/II ESA - Parks Canada, Cavendish Compound, Queens County, PEI, March 2010)

N/A = Not Applicable, no criteria developed

"-" denotes not analyzed

Table D-2. Summary of Asbestos Sampling Results

Sample ID	Description of Material	Sample Location	Condition of Material	% Asbestos	Additional Comments
September 1, 2010					
Asset - Canteen - Cavendish Grove					
AS-1	Asphalt Shingle	Roof	Good	NAD	
AS-2	Tar Paper	Roof	Good; friable	Trace Chrysotile	
AS-3	Insulation	Bathroom wall	Good; friable	NAD	
DUPA	-	-	-	NAD	
AS-4	Lenolium countertop	Main Area	Fair	NAD	
AS-5	Arbournite countertop	Kitchen	Good	NAD	
Asset - Maintenance - Cavendish Grove					
AS-5A	Asphalt Shingle	Roof	Good	NAD	
AS-6	Asphalt Shingle	Roof - shed	Good	NAD	**adhering tar has 10% asbestos
AS-7	window grout	Shed	Poor; friable	<1% Chrysotile	
Asset - Art Barn - Cavendish Grove					
AS-8	Asphalt Shingle	Roof	Good	Trace Chrysotile	**adhering tar has 10% asbestos
DUPB	-	-	-	Trace Chrysotile	**adhering tar has 10% asbestos
Asset No. 404 - Visitor Information Centre - Grahams Lane					
AS-9	Tar Paper	Under Wood siding	Fair;friable	NAD	
AS-10	Asphalt Shingle	Roof	Good	NAD	
AS-11	Tar Paper	Roof	Fair;friable		
Asset No. 112 - Sheppard Cottage - Grahams Lane					
AS-12	Siding	Roof	Good	20% Chrysotile	
DUPC	-	-	-	20% Chrysotile	
AS-13	Tar Paper	Under siding	Good;friable	NAD	
AS-14	Floor tile and backing	Kitchen	Good	NAD	
AS-15	Ceiling tile	Ceiling - kitchen	Poor; friable	NAD	
AS-16	window grout	window	Poor; friable	<1% Chrysotile	
AS-17	Asphalt Shingle	Roof	Good	NAD	
AS-18	Tar Paper	Roof	Good; friable		
Asset No. 8087 - Kitchen Shelter - Cavendish Campground					
AS-19	Asphalt Shingle	Roof	Good	NAD	
AS-20	Tar Paper	Roof	Good; friable	NAD	
Asset No. 8106 - Washroom/Kitchen Shelter - Cavendish East Day Use					
AS-21	Tar Paper	Roof and under Siding	Good; friable	NAD	
Asset No. 118 - Storage Barn - Route 13					
AS-22	Asphalt Shingle	Roof	Good	NAD	
Asset No. 108 - Staff House - Route 13					
AS-23	Asphalt Shingle	Roof	Good	NAD	
AS-24	Tar paper	Roof	Good;friable	NAD	
AS-25	Tile Floor	Kitchen	Poor	NAD	
AS-26	Tile Wall	Bathroom	Fair	NAD	**tile adhesive has 6% asbestos
Asset No. 117 - Garage - Route 13					
AS-27	Asphalt Shingle	Roof	Good	NAD	
AS-28	Tar Paper	Roof	Good; friable	NAD	
AS-29	window grout	window	Fair;friable	<1% Chrysotile	

Table D-2. Summary of Asbestos Sampling Results

Sample ID	Description of Material	Sample Location	Condition of Material	% Asbestos	Additional Comments
Asset No. 106 - Staff House - Route 13					
AS-30	window grout	window	Fair;friable	<1% Chrysotile	
AS-31	Asphalt Shingle	Roof	Good	NAD	
AS-32	Floor Underlay	Kitchen	Good	2% Chrysotile	
AS-33	Kitchen Flooring	Kitchen	Good	NAD	
AS-34	Carpet Underlay	Living Room	Good; friable	NAD	
AS-35	Pipe Wrap	Basement	Good; friable	NAD	
Asset No. 307 - Industrial Storage Building - Compound					
AS-36	window grout	window	Fair;friable	NAD	
AS-37	Asphalt Shingle	Roof	Good	Trace Chrysotile	
AS-38	Tar Paper	Under siding	Good	3.9% Chrysotile	
Asset No. 303 - Trades Building - Compound					
AS-39	Asphalt Shingle	pump house	Good	NAD	
AS-40	Tar Paper	pump house	Good; friable	NAD	
AS-41	Counter top	Office	Good	NAD	
AS-42	Wall Insulation	Office	Good	NAD	
AS-43	Pipe Wrap	Kitchen	Good; friable	NAD	
Asset No. 310 - Paint Grounds Building - Compound					
AS-44	Asphalt Shingle	Roof	Good	NAD	
AS-45	Tar Paper	Roof	Good; friable	NAD	

Notes:

1. NAD = no asbestos detected above 1%
2. For the purposes of the current Modified Phase I ESA and Hazmat Survey the asbestos results that indicate trace levels (i.e., < 1%) are considered ACMs due to inhomogeneous nature of the asbestos distribution in the materials sampled

APPENDIX E

LABORATORY ANALYSIS REPORTS

Your P.O. #: 200
 Your Project #: 121711090
 Site:CAVENDISH
 Your C.O.C. #: ES093010

Attention: Danya MacGillivray
 Stantec Consulting Ltd
 Charlottetown - Standing Offer
 165 Maple Hills Ave
 Charlottetown, PE
 C1C1N9

Report Date: 2010/09/14

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C3096
Received: 2010/09/07, 10:22

Sample Matrix: Paint
 # Samples Received: 49

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Lead Paint Avail. OES	1	2010/09/08	2010/09/09	ATL SOP 00025 R5	Based on USEPA 6010B
Lead Paint Avail. OES	7	2010/09/08	2010/09/10	ATL SOP 00025 R5	Based on USEPA 6010B
Lead Paint Avail. OES	20	2010/09/08	2010/09/13	ATL SOP 00025 R5	Based on USEPA 6010B
Lead Paint Avail. OES	6	2010/09/09	2010/09/09	ATL SOP 00025 R5	Based on USEPA 6010B
Lead Paint Avail. OES	15	2010/09/09	2010/09/13	ATL SOP 00025 R5	Based on USEPA 6010B
Sample weight	49	2010/09/09	2010/09/09		

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MICHELLE HILL, Project Manager
 Email: Michelle.Hill@maxxamanalytics.com
 Phone# (902) 420-0203

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

RESULTS OF ANALYSES OF PAINT

Maxxam ID		HB7076	HB7088	HB7089	HB7090	HB7091	HB7092	HB7093		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-1	PS-2	PS-3	PS-4	PS-5	PS-6	PS-7	RDL	QC Batch

Inorganics										
Weight	g	0.5	5.6	0.6	0.7	1.9	2.4	1.7	0.1	2259765
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7094	HB7095	HB7096	HB7148	HB7150	HB7151	HB7152		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-9	PS-10	PS-11	PS-12	PS-13	PS-14	PS-15	RDL	QC Batch

Inorganics										
Weight	g	5.8	0.3	5.6	0.5	0.6	7.9	1.6	0.1	2259765
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7153	HB7154	HB7155	HB7156	HB7157	HB7158	HB7159		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-16	PS-17	PS-18	PS-19	PS-20	PS-21	PS-22	RDL	QC Batch

Inorganics										
Weight	g	6.6	12.9	0.4	0.6	2.4	0.5	0.7	0.1	2259765
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

RESULTS OF ANALYSES OF PAINT

Maxxam ID		HB7160	HB7161	HB7162	HB7163		HB7164	HB7165		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01		2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010		ES093010	ES093010		
	Units	PS-23	PS-24	PS-25	PS-26	QC Batch	PS-27	PS-28	RDL	QC Batch

Inorganics										
Weight	g	4.4	5.1	2.1	0.8	2259765	1.9	0.6	0.1	2259774
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7166	HB7167	HB7204	HB7205	HB7206	HB7207	HB7208		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-29	PS-30	PS-31	PS-32	PS-33	PS-34	PS-35	RDL	QC Batch

Inorganics										
Weight	g	6.3	5.5	3.0	3.1	10.7	0.2	4.6	0.1	2259774
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7209	HB7210	HB7211	HB7212	HB7213	HB7219	HB7220		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-36	PS-37	PS-38	PS-39	PS-40	PS-41	PS-42	RDL	QC Batch

Inorganics										
Weight	g	3.0	1.2	2.4	1.5	0.4	2.4	2.2	0.1	2259774
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

RESULTS OF ANALYSES OF PAINT

Maxxam ID		HB7221	HB7222	HB7223	HB7224	HB7225	HB7226	HB7227		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-43	PS-44	PS-45	PS-46	DUP-1	DUP-2	DUP-3	RDL	QC Batch

Inorganics										
Weight	g	2.7	4.6	2.2	0.5	6.8	3.3	10.2	0.1	2259774

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		HB7228		
Sampling Date		2010/09/01		
COC Number		ES093010		
	Units	DUP-4	RDL	QC Batch

Inorganics				
Weight	g	2.7	0.1	2259774

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

ELEMENTS BY ICP-AES (PAINT)

Maxxam ID		HB7076		HB7088	HB7088		HB7089		HB7090		
Sampling Date		2010/09/01		2010/09/01	2010/09/01		2010/09/01		2010/09/01		
COC Number		ES093010		ES093010	ES093010		ES093010		ES093010		
	Units	PS-1	RDL	PS-2	PS-2 Lab-Dup	RDL	PS-3	RDL	PS-4	RDL	QC Batch

Metals											
Available Lead (Pb)	mg/kg	370	100	ND	ND	50	ND	80	ND	70	2261869
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch											

Maxxam ID		HB7091	HB7092	HB7093		HB7094	HB7094		
Sampling Date		2010/09/01	2010/09/01	2010/09/01		2010/09/01	2010/09/01		
COC Number		ES093010	ES093010	ES093010		ES093010	ES093010		
	Units	PS-5	PS-6	PS-7	QC Batch	PS-9	PS-9 Lab-Dup	RDL	QC Batch

Metals									
Available Lead (Pb)	mg/kg	740	ND	13000	2261869	5100	5200	50	2263505
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch									

Maxxam ID		HB7095		HB7096		HB7148		HB7150			
Sampling Date		2010/09/01		2010/09/01		2010/09/01		2010/09/01			
COC Number		ES093010		ES093010		ES093010		ES093010			
	Units	PS-10	RDL	PS-11	RDL	PS-12	RDL	QC Batch	PS-13	RDL	QC Batch

Metals											
Available Lead (Pb)	mg/kg	ND	200	ND	50	22000	100	2263505	2600	90	2261181
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch											

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

ELEMENTS BY ICP-AES (PAINT)

Maxxam ID		HB7151	HB7152	HB7153		HB7154		HB7155		
Sampling Date		2010/09/01	2010/09/01	2010/09/01		2010/09/01		2010/09/01		
COC Number		ES093010	ES093010	ES093010		ES093010		ES093010		
	Units	PS-14	PS-15	PS-16	RDL	PS-17	RDL	PS-18	RDL	QC Batch

Metals										
Available Lead (Pb)	mg/kg	260	570	31000	50	63000	500	740	100	2263505
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7156		HB7157		HB7158		HB7159		HB7160	
Sampling Date		2010/09/01		2010/09/01		2010/09/01		2010/09/01		2010/09/01	
COC Number		ES093010		ES093010		ES093010		ES093010		ES093010	
	Units	PS-19	RDL	PS-20	RDL	PS-21	RDL	PS-22	RDL	PS-23	RDL

Metals											
Available Lead (Pb)	mg/kg	730	80	460	50	570	100	4300	70	33000	50
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											

Maxxam ID		HB7161	HB7162		HB7163		HB7164		HB7165	
Sampling Date		2010/09/01	2010/09/01		2010/09/01		2010/09/01		2010/09/01	
COC Number		ES093010	ES093010		ES093010		ES093010		ES093010	
	Units	PS-24	PS-25	RDL	PS-26	RDL	PS-27	RDL	PS-28	RDL

Metals											
Available Lead (Pb)	mg/kg	58	19000	50	260	70	9000	50	390	80	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

ELEMENTS BY ICP-AES (PAINT)

Maxxam ID		HB7166		HB7167	HB7204	HB7205	HB7206	HB7207		
Sampling Date		2010/09/01		2010/09/01	2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010		ES093010	ES093010	ES093010	ES093010	ES093010		
	Units	PS-29	QC Batch	PS-30	PS-31	PS-32	PS-33	PS-34	RDL	QC Batch

Metals										
Available Lead (Pb)	mg/kg	38000	2263505	36000	470	900	12000	ND	50	2261181
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7208		HB7209	HB7209	HB7210	HB7211		
Sampling Date		2010/09/01		2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010		ES093010	ES093010	ES093010	ES093010		
	Units	PS-35	QC Batch	PS-36	PS-36 Lab-Dup	PS-37	PS-38	RDL	QC Batch

Metals										
Available Lead (Pb)	mg/kg	480	2261181	16000	16000	11000	240	50	2263509	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Maxxam ID		HB7212		HB7213		HB7219	HB7220	HB7221	HB7222		
Sampling Date		2010/09/01		2010/09/01		2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		ES093010		ES093010		ES093010	ES093010	ES093010	ES093010		
	Units	PS-39	RDL	PS-40	RDL	PS-41	PS-42	PS-43	PS-44	RDL	QC Batch

Metals											
Available Lead (Pb)	mg/kg	56000	500	2300	100	1500	ND	760	3300	50	2263509
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch											

Maxxam Job #: B0C3096
 Report Date: 2010/09/14

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

ELEMENTS BY ICP-AES (PAINT)

Maxxam ID		HB7223		HB7224		HB7225	HB7226		HB7227		
Sampling Date		2010/09/01		2010/09/01		2010/09/01	2010/09/01		2010/09/01		
COC Number		ES093010		ES093010		ES093010	ES093010		ES093010		
	Units	PS-45	RDL	PS-46	RDL	DUP-1	DUP-2	QC Batch	DUP-3	RDL	QC Batch

Metals											
Available Lead (Pb)	mg/kg	3400	50	ND	100	ND	5400	2263509	48000	50	2264155

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		HB7227	HB7228		
Sampling Date		2010/09/01	2010/09/01		
COC Number		ES093010	ES093010		
	Units	DUP-3	DUP-4	RDL	QC Batch
		Lab-Dup			

Metals					
Available Lead (Pb)	mg/kg	49000	1300	50	2264155

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3096
Report Date: 2010/09/14

Stantec Consulting Ltd
Client Project #: 121711090
Project name: CAVENDISH
Your P.O. #: 200

GENERAL COMMENTS

Results relate only to the items tested.

Stantec Consulting Ltd
 Attention: Danya MacGillivray
 Client Project #: 121711090
 P.O. #: 200
 Project name: CAVENDISH

Quality Assurance Report
 Maxxam Job Number: DB0C3096

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2261181 SSI	Matrix Spike	Available Lead (Pb)	2010/09/09		NC	%	75 - 125
	QC Standard	Available Lead (Pb)	2010/09/09		103	%	75 - 125
	Spiked Blank	Available Lead (Pb)	2010/09/09		89	%	75 - 125
	Method Blank	Available Lead (Pb)	2010/09/09		ND, RDL=50	mg/kg	
	RPD	Available Lead (Pb)	2010/09/09	3.3		%	25
2261869 SSI	Matrix Spike [HB7088-01]	Available Lead (Pb)	2010/09/10		92	%	75 - 125
	QC Standard	Available Lead (Pb)	2010/09/10		103	%	75 - 125
	Spiked Blank	Available Lead (Pb)	2010/09/10		93	%	75 - 125
	Method Blank	Available Lead (Pb)	2010/09/10		ND, RDL=50	mg/kg	
	RPD [HB7088-01]	Available Lead (Pb)	2010/09/10		NC	%	25
2263505 SSI	Matrix Spike [HB7094-01]	Available Lead (Pb)	2010/09/13		NC	%	75 - 125
	QC Standard	Available Lead (Pb)	2010/09/13		99	%	75 - 125
	Spiked Blank	Available Lead (Pb)	2010/09/13		94	%	75 - 125
	Method Blank	Available Lead (Pb)	2010/09/13		ND, RDL=50	mg/kg	
	RPD [HB7094-01]	Available Lead (Pb)	2010/09/13	0.5		%	25
2263509 SSI	Matrix Spike [HB7209-01]	Available Lead (Pb)	2010/09/13		NC	%	75 - 125
	QC Standard	Available Lead (Pb)	2010/09/13		98	%	75 - 125
	Spiked Blank	Available Lead (Pb)	2010/09/13		92	%	75 - 125
	Method Blank	Available Lead (Pb)	2010/09/13		ND, RDL=50	mg/kg	
	RPD [HB7209-01]	Available Lead (Pb)	2010/09/13	0.2		%	25
2264155 SSI	Matrix Spike [HB7227-01]	Available Lead (Pb)	2010/09/13		NC	%	75 - 125
	QC Standard	Available Lead (Pb)	2010/09/13		102	%	75 - 125
	Spiked Blank	Available Lead (Pb)	2010/09/13		93	%	75 - 125
	Method Blank	Available Lead (Pb)	2010/09/13		ND, RDL=50	mg/kg	
	RPD [HB7227-01]	Available Lead (Pb)	2010/09/13	0.5		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Your P.O. #: 200
Your Project #: 121711090
Site:CAVENDISH
Your C.O.C. #: ES093010

Attention: Danya MacGillivray
Stantec Consulting Ltd
Charlottetown - Standing Offer
165 Maple Hills Ave
Charlottetown, PE
C1C1N9

Report Date: 2010/09/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C3138
Received: 2010/09/07, 10:22

Sample Matrix: Paint
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Lead Paint Avail. OES	1	2010/09/13	2010/09/15	ATL SOP 00025 R5	Based on USEPA 6010B
Sample weight	1	2010/09/10	2010/09/10		

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MICHELLE HILL, Project Manager
Email: Michelle.Hill@maxxamanalytics.com
Phone# (902) 420-0203

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0C3138
Report Date: 2010/09/16

Stantec Consulting Ltd
Client Project #: 121711090
Project name: CAVENDISH
Your P.O. #: 200

RESULTS OF ANALYSES OF PAINT

Maxxam ID		HB7297		
Sampling Date		2010/09/01		
COC Number		ES093010		
	Units	PS-8	RDL	QC Batch

Inorganics				
Weight	g	1.1	0.1	2261224
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0C3138
 Report Date: 2010/09/16

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 200

ELEMENTS BY ICP-AES (PAINT)

Maxxam ID		HB7297		
Sampling Date		2010/09/01		
COC Number		ES093010		
	Units	PS-8	RDL	QC Batch

Metals				
Available Lead (Pb)	mg/kg	890	50	2267073

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3138
Report Date: 2010/09/16

Stantec Consulting Ltd
Client Project #: 121711090
Project name: CAVENDISH
Your P.O. #: 200

GENERAL COMMENTS

Results relate only to the items tested.

Stantec Consulting Ltd
 Attention: Danya MacGillivray
 Client Project #: 121711090
 P.O. #: 200
 Project name: CAVENDISH

Quality Assurance Report
 Maxxam Job Number: DB0C3138

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2267073 SSI	Matrix Spike	Available Lead (Pb)	2010/09/15		NC	%	75 - 125
	QC Standard	Available Lead (Pb)	2010/09/15		102	%	75 - 125
	Spiked Blank	Available Lead (Pb)	2010/09/15		95	%	75 - 125
	Method Blank	Available Lead (Pb)	2010/09/15	82, RDL=50		mg/kg	
	RPD	Available Lead (Pb)	2010/09/15	1.9		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

Your P.O. #: 300.200
 Your Project #: 121711090
 Site:CAVENDISH
 Your C.O.C. #: ES096410

Attention: Danya MacGillivray
 Stantec Consulting Ltd
 Charlottetown - Standing Offer
 165 Maple Hills Ave
 Charlottetown, PE
 C1C1N9

Report Date: 2010/09/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C5477

Received: 2010/09/10, 8:39

Sample Matrix: Leachate
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Metals Leach. Tot. MS - N-per	3	2010/09/14	2010/09/15	ATL SOP 00059 R1	Based on EPA6020A

Sample Matrix: Paint
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TCLP Inorganic extraction - pH	3	N/A	2010/09/14	ATL SOP-00035 R4	Based on EPA1311
TCLP Inorganic extraction - Weight	3	N/A	2010/09/14	ATL SOP-00035 R4	Based on EPA1311

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MICHELLE HILL, Project Manager
 Email: Michelle.Hill@maxxamanalytics.com
 Phone# (902) 420-0203

=====
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Total cover pages: 1

Maxxam Job #: B0C5477
 Report Date: 2010/09/20

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 300.200

ELEMENTS BY ICP/MS (LEACHATE)

Maxxam ID		HC8072		HC8103		HC8104		
Sampling Date		2010/09/09		2010/09/09		2010/09/09		
COC Number		ES096410		ES096410		ES096410		
	Units	PS-47	RDL	PS-48	RDL	PS-49	RDL	QC Batch

Metals								
Leachable Lead (Pb)	ug/L	25000	50	16000	5	37000	50	2265556

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C5477
 Report Date: 2010/09/20

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH
 Your P.O. #: 300.200

RESULTS OF ANALYSES OF PAINT

Maxxam ID		HC8072	HC8103	HC8104	
Sampling Date		2010/09/09	2010/09/09	2010/09/09	
COC Number		ES096410	ES096410	ES096410	
	Units	PS-47	PS-48	PS-49	QC Batch

Inorganics					
Sample Weight (as received)	g	2.5	2.5	2.0	2264195
Initial pH	N/A	NA	NA	NA	2264200
Final pH	N/A	5.0	5.0	5.1	2264200
QC Batch = Quality Control Batch					

Maxxam Job #: B0C5477
Report Date: 2010/09/20

Stantec Consulting Ltd
Client Project #: 121711090
Project name: CAVENDISH
Your P.O. #: 300.200

GENERAL COMMENTS

Sample HC8072-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HC8103-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HC8104-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Results relate only to the items tested.

Stantec Consulting Ltd
 Attention: Danya MacGillivray
 Client Project #: 121711090
 P.O. #: 300.200
 Project name: CAVENDISH

Quality Assurance Report
 Maxxam Job Number: DB0C5477

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2264195 JWH	Method Blank	Sample Weight (as received)	2010/09/14	50		g	
	RPD	Sample Weight (as received)	2010/09/14	0		%	N/A
2265556 KGU	Method Blank	Leachable Lead (Pb)	2010/09/15	ND, RDL=5		ug/L	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Your Project #: 121711090
 Site:CAVENDISH
 Your C.O.C. #: B 075951

Attention: Danya MacGillivray

Stantec Consulting Ltd
 Charlottetown - Standing Offer
 165 Maple Hills Ave
 Charlottetown, PE
 C1C1N9

Report Date: 2010/09/24

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C7563

Received: 2010/09/15, 11:24

Sample Matrix: Leachate
 # Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Metals Leach. Tot. MS - N-per	8	2010/09/22	2010/09/22	ATL SOP 00059 R1	Based on EPA6020A

Sample Matrix: Paint
 # Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TCLP Inorganic extraction - pH	8	N/A	2010/09/22	ATL SOP-00035 R4	Based on EPA1311
TCLP Inorganic extraction - Weight	8	N/A	2010/09/22	ATL SOP-00035 R4	Based on EPA1311

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MICHELLE HILL, Project Manager
 Email: Michelle.Hill@maxxamanalytics.com
 Phone# (902) 420-0203

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Total cover pages: 1

Maxxam Job #: B0C7563
 Report Date: 2010/09/24

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH

ELEMENTS BY ICP/MS (LEACHATE)

Maxxam ID		HD8224		HD8225	HD8228	HD8229		
Sampling Date		2010/09/01		2010/09/01	2010/09/01	2010/09/01		
COC Number		B 075951		B 075951	B 075951	B 075951		
	Units	PS-9 (P# HB7094)	RDL	PS-16 (P# HB7153)	PS-17 (P# HB7154)	PS-23 (P# HB7160)	RDL	QC Batch

Metals								
Leachable Lead (Pb)	ug/L	2100	5	61000	67000	32000	50	2273419

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		HD8230	HD8231	HD8232	HD8233		
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01		
COC Number		B 075951	B 075951	B 075951	B 075951		
	Units	PS-29 (P# HB7166)	PS-30 (P# HB7167)	PS-33 (P# HB7206)	PS-36 (P# HB7209)	RDL	QC Batch

Metals							
Leachable Lead (Pb)	ug/L	41000	35000	40000	31000	50	2273419

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C7563
 Report Date: 2010/09/24

Stantec Consulting Ltd
 Client Project #: 121711090
 Project name: CAVENDISH

RESULTS OF ANALYSES OF PAINT

Maxxam ID		HD8224	HD8225	HD8228	HD8229	
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	
COC Number		B 075951	B 075951	B 075951	B 075951	
	Units	PS-9 (P# HB7094)	PS-16 (P# HB7153)	PS-17 (P# HB7154)	PS-23 (P# HB7160)	QC Batch

Inorganics						
Sample Weight (as received)	g	2.5	2.5	10	2.5	2273201
Initial pH	N/A	NA	NA	NA	NA	2273205
Final pH	N/A	5.1	5.2	5.1	5.0	2273205

QC Batch = Quality Control Batch

Maxxam ID		HD8230	HD8231	HD8232	HD8233	
Sampling Date		2010/09/01	2010/09/01	2010/09/01	2010/09/01	
COC Number		B 075951	B 075951	B 075951	B 075951	
	Units	PS-29 (P# HB7166)	PS-30 (P# HB7167)	PS-33 (P# HB7206)	PS-36 (P# HB7209)	QC Batch

Inorganics						
Sample Weight (as received)	g	2.5	2.5	9.0	2.0	2273201
Initial pH	N/A	NA	NA	NA	NA	2273205
Final pH	N/A	5.0	5.0	5.8	5.3	2273205

QC Batch = Quality Control Batch

Maxxam Job #: B0C7563
Report Date: 2010/09/24

Stantec Consulting Ltd
Client Project #: 121711090
Project name: CAVENDISH

GENERAL COMMENTS

Sample HD8224-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8225-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8228-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8229-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8230-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8231-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8232-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Sample HD8233-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

Results relate only to the items tested.

Stantec Consulting Ltd
 Attention: Danya MacGillivray
 Client Project #: 121711090
 P.O. #:
 Project name: CAVENDISH


Quality Assurance Report
 Maxxam Job Number: DB0C7563

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2273201 JWH	Method Blank	Sample Weight (as received)	2010/09/22	50		g	
2273419 KGU	Method Blank	Leachable Lead (Pb)	2010/09/22	ND, RDL=5		ug/L	

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Table I
Summary of Bulk Asbestos Analysis Results
 121711090 Task 300.200; Cavendrsh; PEI

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	AS-37		0.440	44.3	3.9	51.6	NA	Chrysotile Trace
Location: Bulk Material								
02	AS-38		0.209	40.7	20.2	35.2	NA	Chrysotile 3.91
Location: Bulk Material								
03	AS-39		0.193	51.8	14.5	33.6	NA	NAD
Location: Bulk Material								
04	AS-40		0.245	43.7	28.5	27.9	NA	NAD
Location: Bulk Material								
05	AS-45		0.380	42.6	5.3	52.1	NA	NAD
Location: Bulk Material								

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Sandhya Gunasekara  Date Analyzed: 9/16/2010

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
 PLM analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP 198.6 for New York NOB samples (NY ELAP Lab # 10982);
 TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10982);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.



AmeriSci Boston

8 SCHOOL ST.
WEYMOUTH, MA 02189
TEL: (781) 337-9334 • FAX: (781) 337-7642

PLM Bulk Asbestos Report

Stantec
Attn: Danya MacGillivray
165 Maple Hills Ave.

Charlottetown, PE C1C 1N9

Date Received 09/13/10 **AmeriSci Job #** 510091139

Date Examined 09/17/10 **P.O. #**

Page 1 of 2

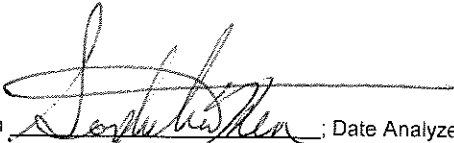
RE: 121711090 Task 200.200; Cavendish; (Report Amended 9/21/2010)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-11 Location:	510091139-01L1	No	NAD (by CVES) by Sophetra Ken on 09/17/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 90 %, Non-fibrous 10 % Comment: Felt Layer			
AS-11 Location:	510091139-01L2	Yes	10 % (by CVES) by Sophetra Ken on 09/17/10
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 10.0 % Other Material: Non-fibrous 90 % Comment: Tar On Felt Layer			
AS-20 Location:	510091139-02	No	NAD (by CVES) by Sophetra Ken on 09/17/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 90 %, Non-fibrous 10 %			
AS-28 Location:	510091139-03	No	NAD (by CVES) by Sophetra Ken on 09/17/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 90 %, Non-fibrous 10 %			

PLM Bulk Asbestos Report

121711090 Task 200.200; Cavendish; (Report Amended
9/21/2010)

Reporting Notes:

Analyzed by: Sophetra Ken ; Date Analyzed: 9/17/10
 NAD = no asbestos detected; CVES = Calibrated Visual Estimate; NA = not analyzed; NA/PS = not analyzed / positive stop; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples) (NY ELAP Lab # 10982); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

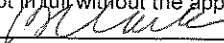
Reviewed By: 

Table I
Summary of Bulk Asbestos Analysis Results
 121711090 Task 200.200; Cavendish

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	AS-6		0.431	65.8	10.9	23.3	NA	NAD
Location: Bulk Material								
02	AS-10		0.175	93.9	2.7	3.3	NA	NAD
Location: Bulk Material								
03	AS-19		0.280	72.2	14.3	13.5	NA	NAD
Location: Bulk Material								
04	AS-22		0.183	93.5	2.3	4.2	NA	NAD
Location: Bulk Material								
05	AS-27		0.092	95.8	4.1	0.1	NA	NAD
Location: Bulk Material								

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Sandhya Gunasekara *SG* Date Analyzed: 9/17/2010

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
 PLM analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP 198.6 for New York NOB samples (NY ELAP Lab # 10982);
 TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10982);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

PLM Bulk Asbestos Report

Stantec
 Attn: Danya MacGillivray
 165 Maple Hills Ave.

Charlottetown, PE C1C 1N9

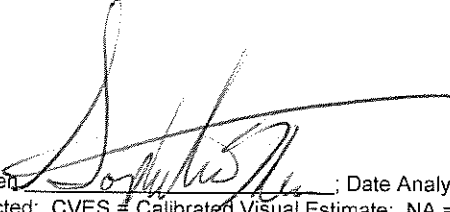
Date Received 10/04/10 AmeriSci Job # 510101051
 Date Examined 10/06/10 P.O. #
 Page 1 of 2
 RE: 121711090 Task 300.200; PEI

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-46 Location:	510101051-01.1	No	NAD (by CVES) by Sophetra Ken on 10/06/10
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 % Comment: Skim Coat			
AS-46 Location:	510101051-01.2	Yes	Trace (<1 %) (by CVES) by Sophetra Ken on 10/06/10
Analyst Description: Beige, Homogeneous, Fibrous, Cementitious, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 % Comment: Base Coat			
AS-47 Location:	510101051-02.1	No	NAD (by CVES) by Sophetra Ken on 10/06/10
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 % Comment: Skim Coat			
AS-47 Location:	510101051-02.2	Yes	Trace (<1 %) (by CVES) by Sophetra Ken on 10/06/10
Analyst Description: Beige, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 % Comment: Base Coat			

PLM Bulk Asbestos Report

121711090 Task 300.200; PEI

Reporting Notes:

Analyzed by: ; Date Analyzed: 10/6/10
NAD = no asbestos detected; CVES = Calibrated Visual Estimate; NA = not analyzed; NA/PS = not analyzed / positive stop; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples) (NY ELAP Lab # 10982); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By: _____



PLM Bulk Asbestos Report

Stantec
Attn: Danya MacGillivray
165 Maple Hills Ave.

Charlottetown, PE C1C 1N9

Date Received 09/07/10 AmeriSci Job # 510091045
Date Examined 09/08/10 P.O. #
Page 1 of 5
RE: 121711090; Cavendish Task 200.200; PE

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-2 Location:	510091045-01	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 65 %, Non-fibrous 35 %			
AS-3 Location:	510091045-02	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Pink, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Fibrous glass 95 %, Non-fibrous 5 %			
AS-4 Location:	510091045-03	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: White/Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 20 %, Non-fibrous 80 %			
AS-5 Location:	510091045-04	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: White/Green/Red, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 35 %, Non-fibrous 65 %			
AS-7 Location:	510091045-05	Yes	Trace (<1 %) (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 %			

PLM Bulk Asbestos Report

121711090; Cavendish Task 200.200; PE

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-9 Location:	510091045-06	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 70 %, Non-fibrous 30 %			
AS-12 Location:	510091045-07	Yes	20 % (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: White/Grey, Homogeneous, Fibrous, Cementitious, Bulk Material Asbestos Types: Chrysotile 20.0 % Other Material: Non-fibrous 80 %			
AS-13 Location:	510091045-08	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 65 %, Non-fibrous 35 %			
AS-14 Location:	510091045-09	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Light Brown, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Synthetic fibers 5 %, Non-fibrous 65 %			
AS-15 Location:	510091045-10	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 90 %, Non-fibrous 10 %			
AS-16 Location:	510091045-11	Yes	Trace (<1 %) (by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 %			

PLM Bulk Asbestos Report

121711090; Cavendish Task 200.200; PE

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-18	510091045-12	No	NAD
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 65 %, Non-fibrous 35 %			
AS-21	510091045-13	No	NAD
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 60 %, Non-fibrous 40 %			
AS-24	510091045-14	No	NAD
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Grey/Brown/Black, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 25 %, Non-fibrous 75 %			
AS-25	510091045-15	No	NAD
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Tan, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 15 %, Fibrous glass 3 %, Non-fibrous 82 %			
AS-26	510091045-16L1	No	NAD
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: White, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 85 %, Non-fibrous 15 %			
Comment: Sample Appears To Be A Ceiling Tile			

PLM Bulk Asbestos Report

121711090; Cavendish Task 200.200; PE

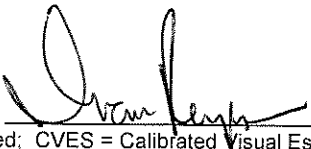
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-26	510091045-16L2	Yes	6 %
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 6.0 %			
Other Material: Non-fibrous 94 %			
Comment: Ceiling Tile Adhesive			
AS-29	510091045-17	Yes	Trace (<1 %)
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100 %			
AS-30	510091045-18	Yes	Trace (<1 %)
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100 %			
AS-32	510091045-19	Yes	2 %
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Off-White/Grey, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
AS-33	510091045-20	No	NAD
Location:			(by CVES) by Ivan H Reyes on 09/08/10
Analyst Description: Off-White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 25 %, Fibrous glass 3 %, Non-fibrous 72 %			

PLM Bulk Asbestos Report

121711090; Cavendish Task 200.200; PE

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-34 Location: Analyst Description: White/Silver/Yellow, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 15 %, Fibrous glass 65 %, Non-fibrous 20 %	510091045-21	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
AS-35 Location: Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %	510091045-22	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
DUP-A Location: Analyst Description: Pink, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Fibrous glass 95 %, Non-fibrous 5 %	510091045-23	No	NAD (by CVES) by Ivan H Reyes on 09/08/10
DUP-C Location: Analyst Description: White/Grey, Homogeneous, Fibrous, Cementitious, Bulk Material Asbestos Types: Chrysotile 20.0 % Other Material: Cellulose Trace, Non-fibrous 80 %	510091045-24	Yes	20 % (by CVES) by Ivan H Reyes on 09/08/10

Reporting Notes:

Analyzed by: Ivan H Reyes ; Date Analyzed: 9/8/10

NAD = no asbestos detected; CVES = Calibrated Visual Estimate; NA = not analyzed; NA/PS = not analyzed / positive stop; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples) (NY ELAP Lab # 10982); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____

Table I
Summary of Bulk Asbestos Analysis Results
 121711090; Cavendish Task 200.200; PE

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	AS-2		0.425	97.8	1.4	0.6	NAD	Chrysotile Trace
Location:								
02	AS-3		----	----	----	----	NAD	NA
Location:								
03	AS-4		0.193	64.7	19.4	15.9	NAD	NAD
Location:								
04	AS-5		0.157	96.1	2.3	1.6	NAD	NAD
Location:								
05	AS-7		0.430	7.8	89.9	2.1	Chrysotile <1.	Chrysotile Trace
Location:								
06	AS-9		0.268	97.6	1.0	1.4	NAD	NAD
Location:								
07	AS-12		----	----	----	----	Chrysotile 20.0	NA
Location:								
08	AS-13		0.344	99.0	0.5	0.6	NAD	NAD
Location:								
09	AS-14		0.182	62.2	29.6	8.1	NAD	NAD
Location:								
10	AS-15		----	----	----	----	NAD	NA
Location:								
11	AS-16		0.763	13.3	63.5	23.1	Chrysotile <1.	Chrysotile Trace
Location:								
12	AS-18		0.249	97.7	0.5	1.7	NAD	NAD
Location:								
13	AS-21		0.295	97.8	1.0	1.1	NAD	NAD
Location:								
14	AS-24		0.382	80.4	16.2	3.4	NAD	NAD
Location:								
15	AS-25		0.088	69.8	17.8	12.4	NAD	NAD
Location:								
16L1	AS-26		----	----	----	----	NAD	NA
Location:								

Table I
Summary of Bulk Asbestos Analysis Results
 121711090; Cavendish Task 200.200; PE

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
16L2	AS-26		----	----	----	----	Chrysotile 6.0	NA
Location:								
17	AS-29		0.271	11.7	76.9	11.4	Chrysotile <1.	NAD
Location:								
18	AS-30		0.336	19.1	77.3	3.7	Chrysotile <1.	NAD
Location:								
19	AS-32		----	----	----	----	Chrysotile 2.0	NA
Location:								
20	AS-33		0.251	75.3	8.0	16.7	NAD	NAD
Location:								
21	AS-34		----	----	----	----	NAD	NA
Location:								
22	AS-35		----	----	----	----	NAD	NA
Location:								
23	DUP-A		----	----	----	----	NAD	NA
Location:								
24	DUP-C		----	----	----	----	Chrysotile 20.0	NA
Location:								

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Sandhya Gunasekara *SG* Date Analyzed: 9/13/2010

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
 PLM analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP 198.6 for New York NOB samples (NY ELAP Lab # 10982);
 TEM analysis by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10982);

** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

Table I
Summary of Bulk Asbestos Analysis Results
 121711090; Cavendish Task 200.200; PE

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	AS-1		0.420	33.6	24.8	41.6	NA	NAD
	Location: Bulk Material							
02	AS-5A		0.331	56.4	27.9	15.6	NA	NAD
	Location: Bulk Material							
03	AS-8		0.176	49.3	5.5	45.0	NA	Chrysotile Trace
	Location: Bulk Material (Shingle has adhering tar which is 10% chrysotile asbestos)							
04	AS-17		0.569	48.7	19.2	32.1	NA	NAD
	Location: Bulk Material							
05	AS-23		0.161	94.8	3.6	1.6	NA	NAD
	Location: Bulk Material							
06	AS-31		0.208	75.1	16.4	8.5	NA	NAD
	Location: Bulk Material							
07	DUP-B		0.373	44.9	33.2	21.8	NA	Chrysotile Trace
	Location: Bulk Material (Shingle has adhering tar which is 10% chrysotile asbestos)							

Reviewed by: _____ Date Reviewed: _____ Analyzed By: Bryan H. Clark  Date Analyzed: 9/10/2010

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%;
 PLM analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP 198.6 for New York NOB samples (NY ELAP Lab # 10982);
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** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

PLM Bulk Asbestos Report

 Stantec
 Attn: Danya MacGillivray
 165 Maple Hills Ave.

Charlottetown, PE C1C 1N9

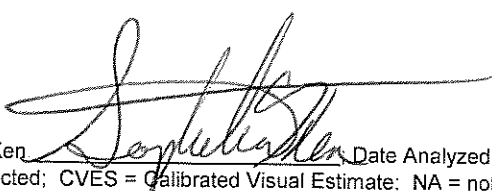
 Date Received 09/10/10 AmeriSci Job # 510091126
 Date Examined 09/15/10 P.O. #
 Page 1 of 2
 RE: 121711090 Task 300.200; Cavendish; PEI

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AS-36 Location:	510091126-01	No	NAD (by CVES) by Sophetra Ken on 09/15/10
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Wollastonite Trace, Non-fibrous 100 %			
AS-41 Location:	510091126-02	No	NAD (by CVES) by Sophetra Ken on 09/15/10
Analyst Description: Green, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 %			
AS-42 Location:	510091126-03	No	NAD (by CVES) by Sophetra Ken on 09/15/10
Analyst Description: Blue, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
AS-43 Location:	510091126-04	No	NAD (by CVES) by Sophetra Ken on 09/15/10
Analyst Description: Yellow, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 95 %, Non-fibrous 5 %			
AS-44 Location:	510091126-05	No	NAD (by CVES) by Sophetra Ken on 09/15/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Non-fibrous 70 %			

PLM Bulk Asbestos Report

121711090 Task 300.200; Cavendish; PEI

Reporting Notes:

Analyzed by:  Date Analyzed: 9/15/10
NAD = no asbestos detected; CVES = Calibrated Visual Estimate; NA = not analyzed; NA/PS = not analyzed / positive stop; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #102079-0) or NY ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples) (NY ELAP Lab # 10982); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By: _____

APPENDIX F

ASSESSOR QUALIFICATIONS

EDUCATION

University of Guelph, Water Resource Engineering, Guelph, ON, 1990
 University of PEI, Diploma in Engineering, Charlottetown, Prince Edward Island, 1988

ACCREDITATIONS/TECHNICAL PUBLICATIONS

Association of Professional Engineers of Prince Edward Island (President 2003, Vice-President 2002, Councilor 1999-2001)
 National Groundwater Association
 Certified Environmental Site Assessor (CESA) - Phase I
 Associated Environmental Site Assessors of Canada

Primary Areas of Expertise

- **Phase I, II and III ESAs**
- **Hydrogeology**
- **Remedial System Design/Implementation**
- **Fuel Spill Response**

20 Years Experience**20 Years Experience with Firm****ACCOMPLISHMENTS, ACHIEVEMENTS AND AWARDS**

Mr. Joostema, FEC, P.Eng., CESA, is a Senior Associate with Stantec Consulting Ltd. specializing in Environmental Engineering/Hydrogeology. Mr. Joostema has been involved in Phase I-IV Environmental Site Assessments including Risk Assessment, Hazardous Materials Studies, Fresh and Saltwater Aquifer Supply Studies and Air Quality Testing for various projects on Prince Edward Island and has accumulated a variety of experience in each discipline. Mr. Joostema has been involved with or senior project engineer of approximately 200 sites for which investigative and/or remedial work was performed due to product loss from under or aboveground petroleum storage tanks as well as Hazardous Materials studies. He has been the project manager and involved in aquifer studies including the installation of production wells, hydraulic testing and interpretation of data. He has managed both indoor and outdoor air quality studies. Peter was the primary team contact for PWGSC work in PEI for several years.

RELEVANT PROJECT EXPERIENCE

- Sr Reviewer/Project Manager, PWGSC- Phase I & II ESAs and RMPs, Various Parks Canada Sites in PEI, 2009.
- Sr Reviewer/Project Manager, PWGSC - Update RMP/RAP, Charlottetown CCG Base, PWGSC, 2009.
- Project Manager, PWGSC - Phase II ESA/RMP/RAP Fort Amherst Park Canada, 2009.
- Sr Reviewer/Project Manager, PWGSC - EMP, DFO Naufrage Dredge Disposal Facility, PWGSC, PEI, 2009 – 2010.
- Defense Construction Canada (DCC) - Compliance Well Installation/Groundwater Monitoring/Decommissioning, Summerside Armoury, Slemon Park, 2009 – 2010.
- Phase II ESA/Remediation/Monitoring, Major Multi-national Oil Company, 2009.
- Project Manager, PWGSC - Dalvay New Production Well and Hydraulic Testing, March 2008.
- Sr Reviewer/Project Management, PWGSC - Potable Water Testing - Two GOCB Facilities on PEI, 2004 – 2009.
- PWGSC - Harrington Agriculture Canada Research Farm Phase I & II ESA, November 2007 to March 2008.
- Pomerleau - Pre-Occupancy Indoor Air Quality Testing of the Jean Canfield Building (new GOCB) for LEEDs certification, December 2007 - February 2008.
- PWGSC - Qualitative Risk Assessment - Naufrage Marine Sediment Containment Facility, December 2007.
- Souris Harbour Authority - Hydraulic Testing - Saltwater Production Wells, October 2007.
- PEITPW - Phase III ESA and Tier II RA - Summerside Government Garage, 2007.
- Sr Reviewer/Project Manager, Phase I / II ESAs, EMS – HMMPs in NB, NS and PEI, PWGSC, 2009.
- Phase I ESA Gap Analysis/Phase II ESA for PWGSC on the Dominion Building in Charlottetown, PEI, 2005.
- Potable Water Sampling (10 GOCB Sites) for PWGSC various locations PEI, 2004 - 2005.
- Risk Assessment for the New GOCB Facility in Charlottetown, PEI for PWGSC, 2004.
- Screening Level Risk Assessment and Monitor Well Decommissioning, PWGSC, Harrington, PEI, 2004.
- Human Health Risk Assessments, Risk Management Plan development for 7 CCG Lighthouses, PWGSC, 2003.
- Phase II, III and Risk Assessment of DFO-SCH wharf site in Jude's Point, PE, 2003.
- Phase II ESA review for Tank Compliance, Design, Removal and Remediation, DFO SCH, 2003.
- Phase III for PWGSC on the Former Taylor ESSO property in Charlottetown, PEI, 2002.
- Phase II, III and Ecological Screening Level Risk Assessment for Charlottetown CCG base, 2002.
- Phase II, III and Risk Assessment for PWGSC on the proposed GOCB in Charlottetown, PEI, 2001 - 2002.
- Phase I/II ESAs for several sites in the program of 70 DFO sites, in NB, PEI, PWGSC, 2000 - 2001.
- Phase I ESAs for PWGSC for various sites in PEI, 1999 - 2002.
- Phase I ESA for PWGSC on the proposed GOCB in Charlottetown, PEI, 1999 - 2000.

EDUCATION

B.Eng., Environmental Engineering, Dalhousie University, Halifax, NS, 2003
Environmental Engineering (Hons), Nova Scotia Agricultural College, Truro, NS, 2001

ACCREDITATIONS

Professional Engineer, Association of Professional Engineers, Geologists and Geophysicists of Alberta
Professional Engineer, Engineers Nova Scotia

ACCOMPLISHMENTS, ACHIEVEMENTS AND AWARDS

Danya is an environmental engineer at the Charlottetown office. She has five years of experience conducting and managing test pit excavations, borehole and monitor well installation and soil and groundwater sampling, and remedial system supervision, monitoring and maintenance for the purposes of regulatory compliance, financing (property acquisitions) and environmental monitoring. She has experience with the planning and supervision of environmental projects, proposal preparation, project scheduling, supervision of technical staff and contractors and technical report preparation including monitoring and closure reports, site remediation reports and Phase II/III ESA's. Danya has recently moved back from the Stantec Calgary office to the Stantec Charlottetown office. Danya has also been involved with mold assessments and remediation activities and pilot scale dredging activities. In 2002, Danya did a four month work term working for the Environmental Department of the PWGSC Charlottetown office where she was involved with CEAA screenings, EPPs and assisted with a public information session for a wharf replacement and bank enhancement.

RELEVANT PROJECT EXPERIENCE

- Project Manager, Limited Phase II ESA - Ash Street, First Capital Realty Inc, Edmonton, AB, 2010.
- Primary Author, Remedial Excavation – Station 85, Parkland Industries Limited, Edmonton, AB, 2010.
- Project Manager for over 20 Phase II ESA's and Remedial Excavations – downstream oil and gas, various sites AB and SK, various clients, 2008/2009.
- Project Manager, Brownfield Development, former CFB Currie Barracks, Canada Lands Corporation, Calgary, Alberta, 2008/2009.
- Assistant Project Manager and Field Supervisor, Environmental Investigation and Management, East Village Development, Calgary Municipal Land Corporation, Calgary, Alberta, 2008/2009.
- Primary Author, Former Landfill Excavation Program and Groundwater Monitoring, Bowden Refinery, Parkland Industries Limited, Bowden, AB, 2008/2009.
- Project Manager for over 30 groundwater monitoring sites – downstream oil and gas, various sites - AB, SK, MB, BC, Parkland Industries Limited, 2007 to 2009.
- Assistant Project Manager and Report Preparation, Phase I/II Acquisition Portfolio – 18 sites in AB, Parkland Industries Limited, 2006/2007.
- Junior Engineer/Field Supervisor, Excavation and Disposal of PAH Impacted Soil in On-Site Disposal Cell, Department of National Defence, Bedford, Nova Scotia, 2005.
- Junior Engineer for over 30 Phase II/III ESA's and Remedial Excavations for various clients, AB, SK, MB, BC, 2005-2007.
- Junior Engineer/Field Supervisor, Containment Source Assessment (soil, sediment and surface water), Department of National Defence, Bedford, Nova Scotia, 2004/2005.
- Junior Engineer/Field Supervisor, Delineation of PAH Impacted Soil and Sediment, Department of National Defence, Bedford, Nova Scotia, 2004.
- Junior Engineer/Field Personnel, Pilot Scale Dredging and Dewatering Project, Boat Harbour Stabilization Lagoon, Public Works and Government Services Canada Pictou, Nova Scotia, 2004.
- Junior Engineer/Field Personnel, Mold Remediation, S. Allen and Sons, Tatamagouche, Nova Scotia, 2004.
- Junior Engineer/Field Personnel, Residential Fuel Oil Spill, various sites, Nova Scotia, 2003/2004.
- Junior Engineer, Risk Management Plan and Remedial Action Plan Documents, Various Sites, Department of National Defence, Nova Scotia, 2003/2004.

Primary Areas of Expertise

- **Phase II/III ESAs**

5 Years Experience

5 Years Experience with Firm

EDUCATION

Dalhousie University; Bachelor of Civil Engineering (2006-2008)
 University of Prince Edward Island; Diploma in Engineering (2003-2006)

ACCREDITATIONS/TECHNICAL PUBLICATIONS

Engineer in Training (EIT)

ACCOMPLISHMENTS, ACHIEVEMENTS AND AWARDS

Mr. Stetson of Stantec is a junior engineer with Stantec Consulting Ltd. in the Charlottetown office. He has conducted field work related to soil sampling, borehole and monitor well drilling, groundwater exploration, air quality sampling and concrete testing. Mr. Stetson has also been an on-site supervisor and assistant for the installation of remediation equipment, including pump/treat and vapour extraction systems. In addition, he has been involved in the completion of remediation system monitoring including: collection of field data (hydrocarbon vapour levels, dissolved oxygen readings, temperature and product levels), collection of groundwater samples, and analysis of system performance. He has also been involved with soil excavation programs, prepared data sheets and written reports for Phase II ESA and monitoring projects for a number of commercial properties.

Primary Areas of Expertise

- **Phase I and II ESA's**
- **Groundwater and Air Quality Monitoring**
- **Remedial System Implementation and Monitoring**
- **Fuel Spill Response**

2 Years Experience
2 Years Experience with Firm

RELEVANT PROJECT EXPERIENCE

- Junior Engineer – Environmental Site Closure and Decommissioning, Environmental Sampling, DND-DCC, Slemon Park Armoury, Summerside, PEI, 2010.
- Junior Engineer – Phase II ESA, Environmental Pump and Treat and Sampling, Fuel Spill Remediation, Lower Bedeque, PEI, 2010.
- Junior Engineer - Town of Stratford Groundwater Exploration Program, Stratford Well Field, Stratford, PEI, 2010.
- Junior Engineer – Geotechnical Drilling and Sampling, PWGSC Small Craft Harbour Sites in MacAuley's Shore, Beach Point, Murray River, Montague, Launching Pond, Annandale, Bay Fortune, Savage Harbour, West Point, Miminegash and Seacow Pond, PWGSC, 2009-2010.
- Junior Engineer - City of Charlottetown Groundwater Exploration Program, Winsloe Well Field, Winsloe, PEI, 2009.
- Junior Engineer – Environmental Drilling, Sampling and Site Remediation, Various Shell Sites on PEI, Shell Canada, 2009 – 2010.
- Junior Engineer - Groundwater Sampling, Various Sites on PEI, 2009-2010.
- Junior Engineer – Hazardous Material Assessment sampling and reporting, Kays Building Re-development, Charlottetown, PEI, CADC, 2009.
- Junior Engineer – Environmental and Geotechnical Drilling and Sampling, Various PEITPW Bridge Structures on PEI, PEITPW, 2009-2010.
- Junior Engineer – Environmental Drilling and Groundwater Sampling, PEITPW Decommissioned Landfill Sites in Maple Plains, Belle River and Kingsboro PEI, PEITPW, 2009-2010.
- Junior Engineer – Fuel Spill Response, Soil Sampling and Vapour Extraction System Installation, Various Sites on PEI, 2009-2010.
- Junior Engineer – Environmental Phase I and Phase II reporting, various projects on PEI, 2009-2010.
- Junior Engineer – Environmental Hydraulic Conductivity testing and monitoring for Former Montague Shell site, Montague, PEI, Shell Canada, 2010.
- Junior Engineer – Geotechnical Drilling and sampling, PWGSC Harrington Research Facility Proposed Greenhouse, Harrington, PEI, PWGSC, 2009.
- Junior Engineer – Environmental Water Quality Monitoring, EEM Program, PEITPW Dunedin, Victoria and Tyne Valley Bridge projects, PEITPW, 2009.