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## 10.0 CLOSURE AND LIMITATIONS

### 10.1 QA/QC DISCUSSION

Details regarding the QC assessment of surrogate recoveries, field duplicate and laboratory blank samples are presented in this section. The QA/QC results are reported on the Laboratory Certificates of Analyses included in Appendix A10.

#### 10.1.1 Surrogate Recoveries

The PCB surrogate recoveries for paint samples BAC-PS-12, BAC-PS-22, BAC-PS-23, BAC-PS-03A and BAC-PS-30 were not within the acceptable QC limits. All five (5) samples were non-detect (<5.0 mg/kg) for PCBs.

#### 10.1.2 Laboratory Blank Samples

Laboratory method blank samples were analyzed for lead, mercury, PCBs, leachable lead and leachable mercury. The purpose of the laboratory blank samples were to assess the quality of the laboratory results with respect to the presence/absence of instrument cross contamination at the laboratory.

Analysis of the laboratory blank samples indicated non-detectable concentrations; therefore, no evidence of cross contamination at the laboratory was identified during the laboratory analytical program.

#### 10.1.3 Laboratory Duplicates

The analytical data for the laboratory duplicate paint samples and the original paint sample analyzed for lead and mercury were compared as relative percent differences (RPDs). A review of the laboratory duplicate data is summarized in Table 10-1.

**Table 10-1: Laboratory Duplicate RPDs**

Laboratory Duplicate Sample ID	Original Sample ID	RPD – Lead %	RPD- Mercury %
BAC-PS-28 Lab-Dup	BAC-PS-28	7.4	---
BAC-PS-28 Lab-Dup 2	BAC-PS-28	10.2	NC

Notes:

--- denotes sample results are identical (i.e. 0.0%).

NC denotes RPD not calculated (i.e. result(s) less than reportable detection limit).

The RPDs for the laboratory duplicates and the original paint sample were 10.2% or lower.

#### 10.1.4 Field Duplicates

The analytical data for the field duplicate paint samples and the original paint samples analyzed for lead and mercury were compared as relative percent differences (RPDs). A review of the field duplicate data is summarized in Table 10-2.

**Table 10-2: Field Duplicate RPDs**

Duplicate Sample ID	Original Sample ID	RPD – Lead %	RPD- Mercury %
BAC-PS-DUP-1	BAC-PS-03	45.2	NC
BAC-PS-DUP-2	BAC-PS-12	93.3	NC
BAC-PS-DUP-3	BAC-PS-23	85.7	135

Notes:

--- denotes sample results are identical (i.e. 0.0%).

NC denotes RPD not calculated (i.e. result(s) less than reportable detection limit).

The RPDs for the field duplicates and the original paint samples were 135% or lower. The poor RPDs are likely attributed to sample inhomogeneity.

#### 10.1.5 Summary of QA/QC Discussion

Overall, based on these QC reviews, the analytical results are considered representative of the Site conditions in the immediate vicinity of the sample locations.

### 10.2 INVENTORY

Copies of room-by-room inspection and inventory sheets for the Site buildings and videos of the Site are provided in Appendix B10.

### 10.3 CLOSURE

This report was prepared for the exclusive use of PWGSC and DFO/CCG. The findings of this report are based solely on the conditions of the Site buildings encountered at the time of the Site visit, and are limited by the availability of information at the time of the HBMA, lack of accessibility to areas within the buildings, project scope and budget. The findings of this assessment are based on the interpretation of data from a limited number of areas investigated and analytical results pertaining to specific samples. It is possible that materials exist which could not be reasonably identified within the scope of the HBMA or which were not apparent or accessible during the Site visits. This Report is also subject to the further limitations contained in Appendix C10.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of the third party. Should additional parties require reliance on this report, written authorization from AMEC is required. With respect to third parties, AMEC has no liability or responsibility for losses of any kind whatsoever, including direct or consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. This assessment has been carried out using commercially reasonable best

efforts consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

Except when otherwise specified, AMEC disclaims any obligation to update this report for events taking place, or with respect to information that becomes available to AMEC after the time during which AMEC conducted the hazardous building materials assessment.

In evaluating the property, AMEC has relied in good faith on information provided by other individuals noted in this report. AMEC has assumed that the information provided is factual and accurate. In addition, some of the findings in this report are based upon information provided by the current owner/occupant. AMEC accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted.

AMEC makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and change. Such interpretations and regulatory changes should be reviewed with legal counsel.

We trust that the information presented in this report meets your current requirements. Should you have any questions, or concerns, please do not hesitate to contact the undersigned.

Yours truly,

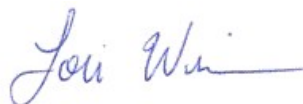
**AMEC Environment & Infrastructure**  
**A Division of AMEC Americas Limited**

Prepared by:



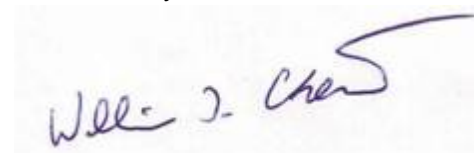
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## **APPENDIX A10**

### **LABORATORY CERTIFICATES OF ANALYSES**





# EMSL Canada Inc.

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EMSL Canada Order 551206173  
Customer ID: 55MEEN26  
Customer PO:  
Project ID:

**Attn:** Lori Wiseman  
AMEC Environment & Infrastructure  
133 Crosbie Road  
St. John's, NL A1B 4A5

**Phone:** (709) 722-7023  
**Fax:** (709) 722-7353  
**Collected:**  
**Received:** 12/19/2012  
**Analyzed:** 12/27/2012

**Proj:** Tf12076457 BACALNAO ISLAND HAZMAT

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-1

**Lab Sample ID:** 551206173-0001

**Sample Description:** BEIGE WINDOW CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /White /Beige	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** BAC-AS-2

**Lab Sample ID:** 551206173-0002

**Sample Description:** WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /White	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-3

**Lab Sample ID:** 551206173-0003

**Sample Description:** WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /White /Beige	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** BAC-AS-4

**Lab Sample ID:** 551206173-0004

**Sample Description:** RED/BLACK SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /Red /Black	0.0%	93.7%	6.3% Chrysotile	

**Client Sample ID:** BAC-AS-5

**Lab Sample ID:** 551206173-0005

**Sample Description:** CLEAR CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-6

**Lab Sample ID:** 551206173-0006

**Sample Description:** GREY BRICK MORTAR

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/27/2012	Gray/Red	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-7

**Lab Sample ID:** 551206173-0007

**Sample Description:** VINYL SHEET FLOORING (GREY) WITH MESHING AND BEIGE/ADHESIVE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /Beige	0.0%	100%	None Detected	



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Customer ID: 55MEEN26  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-8 **Lab Sample ID:** 551206173-0008

**Sample Description:** GREEN TILE STYLE PARTICLE BOARD WITH BLACK/ADHESIVE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Brown /Green	0.0%	98.9%	1.1% Chrysotile	

**Client Sample ID:** BAC-AS-9 **Lab Sample ID:** 551206173-0009

**Sample Description:** PINK FIBRE GLASS INSULATION WITH BLACK BACKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Black /Pink	0.0%	99.6%	0.42% Chrysotile	

**Client Sample ID:** BAC-AS-10 **Lab Sample ID:** 551206173-0010

**Sample Description:** DRYWALL COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/27/2012	Tan/White	0%	98%	2% Chrysotile	

**Client Sample ID:** BAC-AS-11 **Lab Sample ID:** 551206173-0011

**Sample Description:** WHITE/GREY CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /White	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-12 **Lab Sample ID:** 551206173-0012

**Sample Description:** BLACK/RED SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Red /Black	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-13 **Lab Sample ID:** 551206173-0013

**Sample Description:** DRYWALL COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/27/2012	Tan	0%	97%	3% Chrysotile	

**Client Sample ID:** BAC-AS-14 **Lab Sample ID:** 551206173-0014

**Sample Description:** BLACK FELT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Black	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** BAC-AS-15 **Lab Sample ID:** 551206173-0015

**Sample Description:** DRYWALL PLASTER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/27/2012	Tan	0%	94%	6% Chrysotile	



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EMSL Canada Order 551206173  
Customer ID: 55MEEN26  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-16 **Lab Sample ID:** 551206173-0016

**Sample Description:** PINK FIBRE GLASS INSULATION WITH BLACK PAPER/BACKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Brown /Black /Pink	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-17 **Lab Sample ID:** 551206173-0017

**Sample Description:** BLACK/RED SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Red /Black	0.0%	98.8%	1.2% Chrysotile	

**Client Sample ID:** BAC-AS-18 **Lab Sample ID:** 551206173-0018

**Sample Description:** WHITE WINDOW CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Gray /White /Beige	0.0%	99.2%	0.84% Chrysotile	

**Client Sample ID:** BAC-AS-19 **Lab Sample ID:** 551206173-0019

**Sample Description:** YELLOW FOAM INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/27/2012	Yellow	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-20 **Lab Sample ID:** 551206173-0020

**Sample Description:** BLACK/RED SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Red /Black	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-21 **Lab Sample ID:** 551206173-0021

**Sample Description:** WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Beige	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-22 **Lab Sample ID:** 551206173-0022

**Sample Description:** CLEAR CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Beige	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-23 **Lab Sample ID:** 551206173-0023

**Sample Description:** BLACK/RED SHINGLES

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Red /Black	0.0%	100%	None Detected	



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Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-24

**Lab Sample ID:** 551206173-0024

**Sample Description:** WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Green /Beige	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-25

**Lab Sample ID:** 551206173-0025

**Sample Description:** BLACK ICE SHIELD

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Black	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-26

**Lab Sample ID:** 551206173-0026

**Sample Description:** WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Beige	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-27

**Lab Sample ID:** 551206173-0027

**Sample Description:** TYVEK/PAPER FELT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/27/2012	White/Black	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-DUP-1

**Lab Sample ID:** 551206173-0028

**Sample Description:** BLACK/RED SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	Red /Black	0.0%	95.0%	5.0% Chrysotile	

**Client Sample ID:** BAC-AS-DUP-2

**Lab Sample ID:** 551206173-0029

**Sample Description:** WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Beige	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-DUP-3

**Lab Sample ID:** 551206173-0030

**Sample Description:** BLACK ICE SHIELD

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	12/27/2012	White /Black	0.0%	100%	None Detected	



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EMSL Canada Order 551206173  
Customer ID: 55MEEN26  
Customer PO:  
Project ID:

### Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

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#### Analyst(s)

Alice Feng	PLM	(6)
	PLM Grav. Reduction	(24)

Kevin Pang  
or other Approved Signatory

Any questions please contact Kevin Pang.

Samples analyzed by EPA 600/R-93/116 consistent with NLR 111/98. The estimated limit of detection for non-detect samples is <1%. Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 12/27/2012 12:29:57

Your Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Your C.O.C. #: ET255412

# **Attention: Lori Wiseman**

AMEC Environment & Infrastructure  
St John's - Standing Offer  
PO Box 13216  
133 Crosbie Rd, Suite 202  
St John's, NL  
A1B 4A5

**Report Date: 2013/02/27**

This report supersedes all previous reports with the same Maxxam job number

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B2J5658**

**Received: 2012/12/12, 09:27**

Sample Matrix: Paint

# Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Mercury - Total in Leachate (CVAA,LL)	3	2013/01/02	2013/01/02	ATL SOP 00026	Based on EPA245.1
Metals Leach. Tot. MS - N-per	2	2012/12/21	2012/12/22	ATL SOP-00059	Based on EPA6020A
Metals Leach. Tot. MS - N-per	3	2012/12/22	2012/12/23	ATL SOP-00059	Based on EPA6020A
Metals Paint Acid Extr. ICPMS	28	2012/12/14	2012/12/15	ATL SOP 00059	Based on EPA6020A
PCBs in Paint by GC/ECD	4	2012/12/14	2012/12/20		in house
TCLP Inorganic extraction - pH	2	N/A	2012/12/14	ATL SOP-00035	Based on EPA1311
TCLP Inorganic extraction - pH	4	N/A	2012/12/22	ATL SOP-00035	Based on EPA1311
TCLP Inorganic extraction - Weight	2	N/A	2012/12/21	ATL SOP-00035	Based on EPA1311
TCLP Inorganic extraction - Weight	4	N/A	2012/12/22	ATL SOP-00035	Based on EPA1311

## **Remarks:**

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

\* 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: MHill@maxxam.ca  
Phone# (902) 420-0203 Ext:289

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 #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

### ATLANTIC TCLP LEACHATE (PAINT)

Maxxam ID		PY3133	
Sampling Date		2012/11/22	
	<b>Units</b>	<b>BAC-PS-23</b>	<b>QC Batch</b>

<b>Inorganics</b>			
Sample Weight (as received)	g	5.0	3078219
Initial pH	N/A	5.9	3078224
Final pH	N/A	5.1	3078224

QC Batch = Quality Control Batch

Maxxam Job #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

### ATLANTIC TCLP LEACHATE + LEAD (PAINT)

Maxxam ID		PY3113	PY3122		PY3127	PY3131	PY3139		
Sampling Date		2012/11/27	2012/11/22		2012/11/22	2012/11/22	2012/11/22		
	<b>Units</b>	<b>BAC-PS-2</b>	<b>BAC-PS-11</b>	<b>QC Batch</b>	<b>BAC-PS-16</b>	<b>BAC-PS-21</b>	<b>BAC-PS-DUP-3</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Inorganics</b>									
Sample Weight (as received)	g	5.0	5.0	3076931	2.5	2.5	2.5	N/A	3078219
Initial pH	N/A	6.7	6.3	3076942	6.4	5.9	5.8		3078224
Final pH	N/A	5.1	5.1	3076942	5.0	5.0	5.0		3078224
<b>Metals</b>									
Leachable Lead (Pb)	ug/L	52000	13000	3078348	12000	28000	83000	5.0	3079169

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

### MERCURY BY COLD VAPOUR AA (PAINT)

Maxxam ID		PY3113		PY3122			PY3133		
Sampling Date		2012/11/27		2012/11/22			2012/11/22		
	<b>Units</b>	<b>BAC-PS-2</b>	<b>RDL</b>	<b>BAC-PS-11</b>	<b>RDL</b>	<b>QC Batch</b>	<b>BAC-PS-23</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>									
Leachable Mercury (Hg)	ug/L	1.7	0.10	1.1 (1)	0.20	3083401	0.25	0.10	3083404

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
( 1 ) Elevated RDL due to sample matrix.

Maxxam Job #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

### ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		PY3112	PY3113	PY3114	PY3115	PY3116	PY3117		
Sampling Date		2012/11/27	2012/11/27	2012/11/27	2012/11/27	2012/11/27	2012/11/27		
	<b>Units</b>	<b>BAC-PS-1</b>	<b>BAC-PS-2</b>	<b>BAC-PS-3</b>	<b>BAC-PS-4</b>	<b>BAC-PS-5</b>	<b>BAC-PS-6</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>									
Acid Extractable Lead (Pb)	mg/kg	1200	11000	480	21000	700	730	5.0	3069846
Acid Extractable Mercury (Hg)	mg/kg	2.3	24	1.1	1.6	<1.0	<1.0	1.0	3069846

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		PY3118	PY3119	PY3120	PY3121	PY3122	PY3123		
Sampling Date		2012/11/27	2012/11/27	2012/11/27	2012/11/27	2012/11/22	2012/11/22		
	<b>Units</b>	<b>BAC-PS-7</b>	<b>BAC-PS-8</b>	<b>BAC-PS-9</b>	<b>BAC-PS-10</b>	<b>BAC-PS-11</b>	<b>BAC-PS-12</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>									
Acid Extractable Lead (Pb)	mg/kg	2700	1100	4700	4600	9600	2500	5.0	3069846
Acid Extractable Mercury (Hg)	mg/kg	1.4	10	1.8	1.4	28	2.1	1.0	3069846

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		PY3124	PY3125	PY3126	PY3127	PY3128		
Sampling Date		2012/11/22	2012/11/22	2012/11/22	2012/11/22	2012/11/22		
	<b>Units</b>	<b>BAC-PS-13</b>	<b>BAC-PS-14</b>	<b>BAC-PS-15</b>	<b>BAC-PS-16</b>	<b>BAC-PS-17</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>									
Acid Extractable Lead (Pb)	mg/kg	1000	970	1900	11000	2000	5.0	3069846	
Acid Extractable Mercury (Hg)	mg/kg	<1.0	2.5	1.7	16	1.2	1.0	3069846	

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

### ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		PY3129	PY3130	PY3131	PY3132	PY3133	PY3134		
Sampling Date		2012/11/22	2012/11/22	2012/11/22	2012/11/22	2012/11/22	2012/11/22		
	<b>Units</b>	<b>BAC-PS-18</b>	<b>BAC-PS-19</b>	<b>BAC-PS-21</b>	<b>BAC-PS-22</b>	<b>BAC-PS-23</b>	<b>BAC-PS-24</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>									
Acid Extractable Lead (Pb)	mg/kg	<5.0	<5.0	7500	3300	20000	2600	5.0	3070242
Acid Extractable Mercury (Hg)	mg/kg	<1.0	<1.0	23	9.2	50	2.7	1.0	3070242

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		PY3135	PY3136	PY3137	PY3138	PY3139		
Sampling Date		2012/11/22	2012/11/22	2012/11/22	2012/11/22	2012/11/22		
	<b>Units</b>	<b>BAC-PS-25</b>	<b>BAC-PS-20</b>	<b>BAC-PS-DUP-1</b>	<b>BAC-PS-DUP-2</b>	<b>BAC-PS-DUP-3</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>								
Acid Extractable Lead (Pb)	mg/kg	8.3	6.4	760	910	50000	5.0	3070242
Acid Extractable Mercury (Hg)	mg/kg	<1.0	<1.0	<1.0	<1.0	9.7	1.0	3070242

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

### POLYCHLORINATED BIPHENYLS BY GC-ECD (PAINT)

Maxxam ID		PY3113	PY3123	PY3132	PY3133		
Sampling Date		2012/11/27	2012/11/22	2012/11/22	2012/11/22		
	<b>Units</b>	<b>BAC-PS-2</b>	<b>BAC-PS-12</b>	<b>BAC-PS-22</b>	<b>BAC-PS-23</b>	<b>RDL</b>	<b>QC Batch</b>

<b>PCBs</b>							
Total PCB	mg/kg	<5.0	<5.0	<5.0	<5.0	5.0	3070434
<b>Surrogate Recovery (%)</b>							
Decachlorobiphenyl	%	33	26 (1)	15 (1)	17 (1)		3070434

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

( 1 ) PCB surrogate not within acceptance limits. Analysis was repeated with similar results.

Maxxam Job #: B2J5658  
Report Date: 2013/02/27

AMEC Environment & Infrastructure  
Client Project #: TF12076457  
Site Location: BACALHAO ISLAND  
Sampler Initials: CT

Package 1	15.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

#### GENERAL COMMENTS

Revised report: Revised to include TCLP Leachate analysis on the following samples as per client request. December 20, 2012

##### Lead Leachate

BAC-PS-2  
BAC-PS-11  
BAC-PS-16  
BAC-PS-21  
BAC-PS-DUP-3

##### Mercury Leachate

BAC-PS-2  
BAC-PS-11  
BAC-PS-23

Revised report (Revision 2): Change sample ID for PY3135 from BAC-PS-26 to BAC-PS-25 . Changed sample ID fr PY3136 from BAC-PS-27 to BAC-PS-20 as per email request from Lori Wiseman. February 27, 2013 MHL

Sample PY3113-01: 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 PY3122-01: 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 PY3127-01: 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 PY3131-01: 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 PY3133-01: 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 PY3139-01: Method Deviation Comment: Reduced sample weight used for leachate procedure due to insufficient sample. All extraction ratios maintained. Minimal impact on sample data quality.

#### POLYCHLORINATED BIPHENYLS BY GC-ECD (PAINT)

PCBs in Paint by GC/ECD: This data was generated using accepted laboratory practices and standard Quality Control procedures. However, due to the absence of a recognized reference method for PCB in Paint, an in-house method was used. Quality control samples were analyzed, however certain QC elements are unavailable, as noted:

Calculations of Method Detection Limit (MDL) as per CFR 40 (Part 136)

Accuracy and precision study

External performance evaluation study

**Results relate only to the items tested.**

AMEC Environment & Infrastructure  
Attention: Lori Wiseman  
Client Project #: TF12076457  
P.O. #:  
Site Location: BACALHAO ISLAND

Quality Assurance Report  
Maxxam Job Number: DB2J5658

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
3069846 DLB	Matrix Spike [PY3122-01]	Acid Extractable Lead (Pb)	2012/12/15		NC	%	75 - 125	
		Acid Extractable Mercury (Hg)	2012/12/15		NC	%	75 - 125	
	Spiked Blank	Acid Extractable Lead (Pb)	2012/12/15		98	%	75 - 125	
		Acid Extractable Mercury (Hg)	2012/12/15		100	%	75 - 125	
	Method Blank	Acid Extractable Lead (Pb)	2012/12/15	<5.0		mg/kg		
		Acid Extractable Mercury (Hg)	2012/12/15	<1.0		mg/kg		
	RPD [PY3122-01]	Acid Extractable Lead (Pb)	2012/12/15	12.8		%	35	
		Acid Extractable Mercury (Hg)	2012/12/15	15.0		%	35	
	3070242 DLB	Matrix Spike	Acid Extractable Lead (Pb)	2012/12/15		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2012/12/15		95	%	75 - 125
Spiked Blank		Acid Extractable Lead (Pb)	2012/12/15		94	%	75 - 125	
		Acid Extractable Mercury (Hg)	2012/12/15		98	%	75 - 125	
Method Blank		Acid Extractable Lead (Pb)	2012/12/15	<5.0		mg/kg		
		Acid Extractable Mercury (Hg)	2012/12/15	<1.0		mg/kg		
RPD		Acid Extractable Lead (Pb)	2012/12/15	74.8 (1)		%	35	
		Acid Extractable Mercury (Hg)	2012/12/15	NC		%	35	
3070434 BGR	Matrix Spike	Decachlorobiphenyl	2012/12/20		25 (2)	%	30 - 130	
		Total PCB	2012/12/20		3.4 (3)	%	60 - 130	
	Spiked Blank	Decachlorobiphenyl	2012/12/20		32	%	30 - 130	
		Total PCB	2012/12/20		98	%	60 - 130	
	Method Blank	Decachlorobiphenyl	2012/12/20		79	%	30 - 130	
		Total PCB	2012/12/20	<5.0		mg/kg		
	RPD	Total PCB	2012/12/20	NC		%	50	
		Method Blank	Sample Weight (as received)	2012/12/21	NA		g	
	RPD		Sample Weight (as received)	2012/12/21	0		%	N/A
		Method Blank	Sample Weight (as received)	2012/12/22	NA		g	
3078219 KCA	Spiked Blank		Leachable Lead (Pb)	2012/12/22		110	%	80 - 120
		Method Blank	Leachable Lead (Pb)	2012/12/22	<5.0		ug/L	
		RPD	Leachable Lead (Pb)	2012/12/22	NC		%	35
3079169 DLB	Spiked Blank	Leachable Lead (Pb)	2012/12/23		108	%	80 - 120	
		Method Blank	Leachable Lead (Pb)	2012/12/31	<5.0		ug/L	
3083401 MKH	QC Standard	Leachable Mercury (Hg)	2013/01/02		98	%	80 - 120	
		Spiked Blank	Leachable Mercury (Hg)	2013/01/02		102	%	80 - 120
		Method Blank	Leachable Mercury (Hg)	2013/01/02	<0.10		ug/L	
3083404 MKH	QC Standard	Leachable Mercury (Hg)	2013/01/02		104	%	80 - 120	
		Spiked Blank	Leachable Mercury (Hg)	2013/01/02		104	%	80 - 120
		Method Blank	Leachable Mercury (Hg)	2013/01/02	<0.10		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.

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 sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

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

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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.

( 1 ) Poor RPD due to sample inhomogeneity.

( 2 ) PCB surrogate not within acceptance limits. Analysis was repeated with similar results.

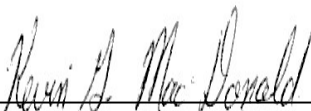
( 3 ) Matrix Spike: results are outside acceptance limit. Analysis was repeated with similar results.

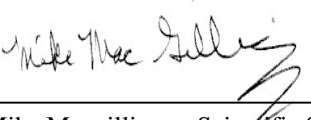
## Validation Signature Page

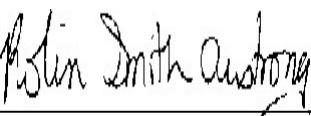
**Maxxam Job #: B2J5658**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

  
 Kevin Macdonald, Inorganics Supervisor

  
 Mike Macgillivray, Scientific Specialist (Inorganics)

  
 Robin Smith-Armstrong, Bedford SemiVol Spvsr

=====

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.

# Laboratory Analysis Report

To:

**Lori Wiseman**

AMEC Environment & Infrastructure

133 Crosbie Road

P.O. Box 13216

St. John's, Newfoundland

A1B 4A5

**EMC LAB REPORT NUMBER:** 39703

**Job/Project Name:** Bacalhao Island Hazmat

**Job/Project No:** TF12076457 **No. of Samples:** 2

**Sample Type:** Bulk **Date Received:** Dec 12/12

**Analysis Method(s):** Direct Microscopic Examination

**Date Analyzed:** Dec 17/12 **Date Reported:** Dec 17/12

**Analyst:** Fajun Chen, Ph.D., *Principal Mycologist*

Client's Sample ID	Lab Sample No.	Date Sampled	Description/Location	Mould Identified, in Rank Order	Mould Growth
BAC-MD-1	188893	Nov 27/12	On paint	<i>Aspergillus</i> <i>Cladosporium</i>	Abundant
BAC-MD-2	188894	Nov 27/12	On drywall	<i>Stachybotrys</i> <i>Penicillium</i>	Abundant

**Note:**

1. Mould growth is subjectively assessed with description terms sparse, moderate and abundant.
2. The presence of spores (lacking other fungal structures associated) is assessed as following: a few spores (< 10 spores average per microscopic field at 400X), some spores (10 - 100 spores average per microscopic field at 400X), many spores (> 100 spores average per microscopic field at 400X).
3. The presence of a few spores generally represents settled spores on the surface of the sample rather than indicating mould growth.
4. The results are only related to the samples analyzed.





# EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8  
Phone/Fax: 289-997-4602 / (289) 997-4607  
<http://www.EMSL.com> / [torontolab@emsl.com](mailto:torontolab@emsl.com)

EMSL Canada Order 551306087  
Customer ID: 55MEEN26  
Customer PO: TF13076513  
Project ID:

**Attn:** Lori Wiseman  
AMEC Environment & Infrastructure  
133 Crosbie Road  
St. John's, NL A1B 4A5

**Phone:** (709) 722-7023  
**Fax:** (709) 722-7353  
**Collected:**  
**Received:** 9/04/2013  
**Analyzed:** 9/11/2013

**Proj:** TF13076513

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-01A

**Lab Sample ID:** 551306087-0001

**Sample Description:** Dwelling exterior window/caulking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/Various	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-03A

**Lab Sample ID:** 551306087-0002

**Sample Description:** Dwelling exterior window/caulking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/White/Various	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-28

**Lab Sample ID:** 551306087-0003

**Sample Description:** Dwelling exterior wall/electrical cable

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/Various/Black	2%	98%	None Detected	

**Client Sample ID:** BAC-AS-29

**Lab Sample ID:** 551306087-0004

**Sample Description:** Dwelling exterior wall/electrical cable

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/Various/Black	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-30

**Lab Sample ID:** 551306087-0005

**Sample Description:** Dwelling basement ceiling/electrical wiring

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Various/Black	25%	75%	None Detected	

**Client Sample ID:** BAC-AS-31

**Lab Sample ID:** 551306087-0006

**Sample Description:** Dwelling basement ceiling/electrical wiring

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Various/Black	25%	75%	None Detected	

**Client Sample ID:** BAC-AS-32

**Lab Sample ID:** 551306087-0007

**Sample Description:** Dwelling room 2 wall/insulation w/paper backing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Tan/Black	70%	30%	None Detected	



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10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8  
Phone/Fax: 289-997-4602 / (289) 997-4607  
<http://www.EMSL.com> / [torontolab@emsl.com](mailto:torontolab@emsl.com)

EMSL Canada Order 551306087  
Customer ID: 55MEEN26  
Customer PO: TF13076513  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-33 **Lab Sample ID:** 551306087-0008

**Sample Description:** Dwelling room 1 wall/insulation w/paper backing

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	9/11/2013	Tan/Various/Black	70%	30%	None Detected	

**Client Sample ID:** BAC-AS-07A **Lab Sample ID:** 551306087-0009

**Sample Description:** Dwelling 1st floor/vinyl sheet flooring

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	9/11/2013	Tan/Various/Beige	25%	75%	None Detected	

**Client Sample ID:** BAC-AS-34 **Lab Sample ID:** 551306087-0010

**Sample Description:** Dwelling living room/kitchen/cement sheeting

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/White/Various	0%	90%	10% Chrysotile	

**Client Sample ID:** BAC-AS-35 **Lab Sample ID:** 551306087-0011

**Sample Description:** Dwelling living room/kitchen/grout

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/Various	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-12A **Lab Sample ID:** 551306087-0012

**Sample Description:** Equipment building room/asphalt shingles

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM Grav. Reduction	9/11/2013	Black	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-14A **Lab Sample ID:** 551306087-0013

**Sample Description:** Equipment building exterior/tar paper

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM Grav. Reduction	9/11/2013	Black	0.0%	100%	None Detected	

**Client Sample ID:** BAC-AS-36 **Lab Sample ID:** 551306087-0014

**Sample Description:** Equipment building room 2 wall/insulation w/paper backing

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/Various/Black	75%	25%	None Detected	

**Client Sample ID:** BAC-AS-18A-Caulking **Lab Sample ID:** 551306087-0015

**Sample Description:** Tramway storage shed exterior window/caulking

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	9/11/2013	White/Various/Beige	0%	100%	None Detected	



# EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8  
Phone/Fax: 289-997-4602 / (289) 997-4607  
<http://www.EMSL.com> / [torontolab@emsl.com](mailto:torontolab@emsl.com)

EMSL Canada Order 551306087  
Customer ID: 55MEEN26  
Customer PO: TF13076513  
Project ID:

## Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

**Client Sample ID:** BAC-AS-18A-Weathered Caulk

**Lab Sample ID:** 551306087-0015A

**Sample Description:** Tramway storage shed exterior window/caulking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray	0%	99%	1% Chrysotile	

**Client Sample ID:** BAC-AS-37

**Lab Sample ID:** 551306087-0016

**Sample Description:** Light tower interior window/caulking

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Gray/Tan/Various	0%	100%	None Detected	

**Client Sample ID:** BAC-AS-38

**Lab Sample ID:** 551306087-0017

**Sample Description:** Light tower interior window/material between panels

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/11/2013	Red	0%	100%	None Detected	

### Analyst(s)

Kevin Pang PLM (16)  
PLM Grav. Reduction (2)

Kevin Pang  
or other Approved Signatory

Any questions please contact Kevin Pang.

Samples analyzed by EPA 600/R-93/116 consistent with NLR 111/98. The estimated limit of detection for non-detect samples is <1%. Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Report amended: 01/02/2014 17:40:26 Replaces initial report from: 09/11/2013 11:20:55 Reason Code: Client-Change to Sample ID

Your Project #: TF13076513  
 Site Location: BACALHAO ISLAND LS  
 Your C.O.C. #: B 086070, B 086071

**Attention: Lori Wiseman**

AMEC Environment & Infrastructure  
 St John's - Standing Offer  
 PO Box 13216  
 133 Crosbie Rd, Suite 202  
 St John's, NL  
 A1B 4A5

Report Date: 2013/09/17

## CERTIFICATE OF ANALYSIS

**MAXXAM JOB #: B3E7057**

**Received: 2013/09/04, 11:32**

Sample Matrix: Paint  
 # Samples Received: 14

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Metals Leach TCLP/CGSB extraction	9	2013/09/11	2013/09/11	ATL SOP-00058	Based on EPA6020A
Metals Paint Acid Extr. ICPMS	4	2013/09/09	2013/09/09	ATL SOP 00058	Based on EPA6020A
Metals Paint Acid Extr. ICPMS	4	2013/09/11	2013/09/12	ATL SOP 00058	Based on EPA6020A
PCBs in Paint by GC/ECD	2	2013/09/12	2013/09/16		in house
TCLP Inorganic extraction - pH	9	N/A	2013/09/11	ATL SOP-00035	Based on EPA1311
TCLP Inorganic extraction - Weight	9	N/A	2013/09/11	ATL SOP-00035	Based on EPA1311

### Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

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

\* Results relate only to the items tested.

Encryption Key

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

Michelle Hill, Project Manager  
 Email: MHill@maxxam.ca  
 Phone# (902) 420-0203 Ext:289

=====

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 #: B3E7057  
Report Date: 2013/09/17

AMEC Environment & Infrastructure  
Client Project #: TF13076513  
Site Location: BACALHAO ISLAND LS  
Sampler Initials: LW

### RESULTS OF ANALYSES OF PAINT

Maxxam ID		SX3211	SX3212	SX3213	SX3214	SX3219	SX3220	SX3227	SX3228	SX3229		
Sampling Date		2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/28	2013/08/28	2013/08/28		
	Units	BAC-PS-02A	BAC-PS-04A	BAC-PS-11A	BAC-PS-16A	BAC-PS-29	BAC-PS-30	BAC-PS-32	BAC-PS-33	BAC-PS-21A	RDL	QC Batch
<b>Inorganics</b>												
Sample Weight (as received)	g	50	50	50	50	50	50	50	50	50	N/A	3344992
Initial pH	N/A	6.7	5.2	7.4	5.2	6.3	5.2	6.4	5.3	6.2		3344997
Final pH	N/A	5.2	4.9	5.2	5.0	5.0	4.9	5.0	4.9	5.1		3344997

### ELEMENTS BY ICP/MS (PAINT)

Maxxam ID		SX3211	SX3212	SX3213	SX3214	SX3219	SX3220	SX3227	SX3228	SX3229		
Sampling Date		2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/28	2013/08/28	2013/08/28		
	Units	BAC-PS-02A	BAC-PS-04A	BAC-PS-11A	BAC-PS-16A	BAC-PS-29	BAC-PS-30	BAC-PS-32	BAC-PS-33	BAC-PS-21A	RDL	QC Batch
<b>Metals</b>												
Leachable Lead (Pb)	ug/L	17000	45	10000	13000	6200	920	2000	2500	33000	5.0	3345348

### ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		SX3216	SX3217	SX3218	SX3218	SX3218		SX3219			
Sampling Date		2013/08/27	2013/08/27	2013/08/27	2013/08/27	2013/08/27		2013/08/27			
	Units	BAC-PS-26	BAC-PS-27	BAC-PS-28	BAC-PS-28 Lab-Dup	BAC-PS-28 Lab-Dup 2	QC Batch	BAC-PS-29	RDL	QC Batch	
<b>Metals</b>											
Acid Extractable Lead (Pb)	mg/kg	300	330	280	260	310	3342143	1100	5.0	3345112	
Acid Extractable Mercury (Hg)	mg/kg	1.4	<1.0	<1.0	<1.0	1.2	3342143	7.1	1.0	3345112	

N/A = Not Applicable  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: B3E7057  
Report Date: 2013/09/17

AMEC Environment & Infrastructure  
Client Project #: TF13076513  
Site Location: BACALHAO ISLAND LS  
Sampler Initials: LW

### ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		SX3220		SX3226		SX3227	SX3228		
Sampling Date		2013/08/27		2013/08/27		2013/08/28	2013/08/28		
	Units	BAC-PS-30	QC Batch	BAC-PS-31	QC Batch	BAC-PS-32	BAC-PS-33	RDL	QC Batch
<b>Metals</b>									
Acid Extractable Lead (Pb)	mg/kg	1300	3345112	1000	3342143	1700	8400	5.0	3345112
Acid Extractable Mercury (Hg)	mg/kg	<1.0	3345112	<1.0	3342143	<1.0	<1.0	1.0	3345112

### POLYCHLORINATED BIPHENYLS BY GC-ECD (PAINT)

Maxxam ID		SX3215	SX3220		
Sampling Date		2013/08/27	2013/08/27		
	Units	BAC-PS-03A	BAC-PS-30	RDL	QC Batch
<b>PCBs</b>					
Total PCB	mg/kg	<5.0	<5.0	5.0	3347061
<b>Surrogate Recovery (%)</b>					
Decachlorobiphenyl	%	14 <sup>(1)</sup>	15 <sup>(2)</sup>		3347061

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) - PCB surrogate not within acceptance limits. Analysis was repeated with similar results.

(2) - PCB surrogate not within acceptance limits. Analysis was repeated with similar results. PCB:Unidentified (possibly halogenated) compounds detected.

Maxxam Job #: B3E7057  
Report Date: 2013/09/17

AMEC Environment & Infrastructure  
Client Project #: TF13076513  
Site Location: BACALHAO ISLAND LS  
Sampler Initials: LW

Package 1	19.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

#### **POLYCHLORINATED BIPHENYLS BY GC-ECD (PAINT)**

PCBs in Paint by GC/ECD: This data was generated using accepted laboratory practices and standard Quality Control procedures. However, due to the absence of a recognized reference method for the PCB in Paint, an in-house method was used. Quality control samples were analyzed, however certain QC elements are unavailable, as noted:

Calculations of Method Detection Limit (MDL) as per CFR 40 (Part 136)

Accuracy and precision study

External performance evaluation study

Maxxam Job #: B3E7057  
Report Date: 2013/09/17

AMEC Environment & Infrastructure  
Client Project #: TF13076513  
Site Location: BACALHAO ISLAND LS  
Sampler Initials: LW

### QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3342143	Acid Extractable Lead (Pb)	2013/09/09	NC	75 - 125	103	75 - 125	<5.0	mg/kg	8.7	35
3342143	Acid Extractable Mercury (Hg)	2013/09/09	95	75 - 125	105	75 - 125	<1.0	mg/kg	NC	35
3344992	Sample Weight (as received)	2013/09/11							0	N/A
3345112	Acid Extractable Lead (Pb)	2013/09/12	NC	75 - 125	101	75 - 125	<5.0	mg/kg	6.8	35
3345112	Acid Extractable Mercury (Hg)	2013/09/12	103	75 - 125	103	75 - 125	<1.0	mg/kg	NC	35
3345348	Leachable Lead (Pb)	2013/09/11			99	80 - 120	<5.0	ug/L		
3347061	Decachlorobiphenyl	2013/09/16	51	30 - 130	61	30 - 130	100	%		
3347061	Total PCB	2013/09/16	66	60 - 130	128	60 - 130	<5.0	mg/kg	NC	50

N/A = Not Applicable

RPD = Relative Percent Difference

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.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

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

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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.



## Validation Signature Page


**Maxxam Job #: B3E7057**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Eric Bearman, Scientific Specialist



Ronald MacDonald, Scientific Specialist (Organics)

=====

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.

**APPENDIX B10**

**ROOM-BY-ROOM INSPECTION AND INVENTORY SHEETS  
AND VIDEOS**

Light lower Area

PS-2021

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Shed on L. half				See figure

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete (no paint) red painted wood floor.			
Walls	Unfinished wood.			BAC-PS-21 white on wood (exterior)
Ceiling	Unfinished wood			
Paint				
Insulation	NA			
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	NA		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA			
Mould / Water Staining	NA.			
Other (CO, VOCs, ODSs)	NA			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Missed -  
PS-20

# Light Lower Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
L. House	Int / Ext.			See figures

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Painted concrete red.			
Walls	red on metal white on metal.			BAC-PS-22 (inside bottom) BAC-PS-23 (white) on exterior (BAC-PS-22)
Ceiling	—			BAC-PS-24 grey on green on red (upstairs?)
Paint				
Insulation	NA			
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)			Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA			
Mould / Water Staining	NA			
Other (CO, VOCs, ODSs)	fire extinguisher on steps up. old. cannot see type			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

MISSED  
PS-25

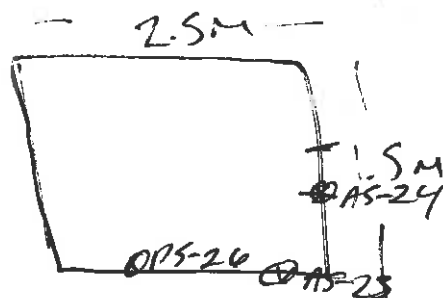
# Light Tower Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Solar Power shed. <del>ext</del>	ext / int.	1		2.5 x 1.5 x 2.5

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	unfinished concrete			
Walls	white painted plywood			
Ceiling	white painted plywood			
Paint				
Insulation	NA.			
Piping	NA.			
Lighting (fluorescent, incandescent, HG, vapour)	1 Light See pictures		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA			
Mould / Water Staining	NA.			
Other (CO, VOCs, ODSs)	NA. batteries			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

## Notes/Comments:



BAC-AS-23 - red/black  
Shingle  
BAC-AS-24 - white door  
caulk.  
BAC-PS-26: white on  
plywood wall.

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Duqm	exterior	—	—	—

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor				
Walls	Concrete bottom Multiple layers of grey. We co painted bead-Multiple layers of white.			BAC-PS1 BAC-PS-2
Ceiling				
Paint				
Insulation				
Piping				
Lighting (fluorescent, incandescent, HG, vapour)			Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)			Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

## Notes/Comments:

BAC-AS-1 window caulking (large) Mix of clear  
silicone w/ sand base hard caulking  
BAC-AS-2 - white caulking below of door frame clear to yellow  
BAC-AS-3 - white caulking on window  
BAC-AS-4 - Red shiny (BAC-AS-DUR-1)

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Dwellm	Basement			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Grey (multipurpose)			BAC-PS-3 (BAC-PS-DUP-1)
Walls	Green painted concrete			BAC-PS-5 color ceiling on concrete
Ceiling	Open/unfinished			BAC-PS-4 green on concrete (walls)
Paint				
Insulation	NA			
Piping	Copper piping			
Lighting (fluorescent, incandescent, HG, vapour)	3.		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	Lead soldering			
Mould / Water Staining	yes			
Other (CO, VOCs, ODSs)	hot water tank / 2 freezers			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

## Notes/Comments:

AST in basement.  
 Paint on ~~chairs~~ BAC-PS-5 red on ~~chair~~ tank  
~~ceiling~~ BAC-PS-6 Mortar grey.  
 BAC-ASH-1 - Ash in bottom of chimney

## Main Site Area

~~AS-PS~~

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Dwelln	Portch.			2.5m H

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Vinyl sheet floor vinyl backing meshy & base adhesive.			BAC-AS-7
Walls	White over blue over green.			BAC-PS-07
Ceiling	white painted.			<del>BAC-PS-07</del>
Paint				
Insulation	Pink FG w/ Black paperbacking			
Piping	NA.			
Lighting (fluorescent, <u>incandescent</u> , HG, vapour)	1		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA.			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	NA			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:



# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Dwelling	Living	1		2.5mH

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Vinyl sheet flooring			
Walls	white painted GYPROC			BAC-AS-08
Ceiling	white painted GYPROC Tile like sheeting on bottom green w/ black adhesive			BAC-PS-06 <del>BAC-PS-07</del>
Paint				
Insulation	Pink FG w/ Black backing			
Piping	under sink			
Lighting (fluorescent, incandescent, HG, vapour)	2		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangle white - Rogers		Total: HG containing: <u>Non-HG:</u>	
Lead Containing Materials	NA.			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	NO. - smoke detector			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

BAC-PS-09. Multiple layers of green  
~~green~~ green paint on cyborgs

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Dwelling	Bathroom	1		2.5m <sup>2</sup>

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Vinyl Sheet floor			
Walls	White painted gypsum. Tile like sheets pink w/ meshing + black adhesion			
Ceiling	White painted concrete.			
Paint				
Insulation	Pink FG w/ Black paper backing			
Piping	<del>NA</del> under sink			
Lighting (fluorescent, incandescent, HG, vapour)	1		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	under sink! Solder			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	NO			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

**Notes/Comments:**

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Dwellm	Room 1	1		2.5m H

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	vinyl sheet floor.			
Walls	Light blue gyproc walls.			
Ceiling	White on gyproc.			
Paint				
Insulation	Pink FG W/ Black Backing			
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	1		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA.		Total: HG containing: Non-HG:	
Lead Containing Materials	NA			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	NO.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

**Notes/Comments:**

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
<del>Room 2</del> Room 2	Room 2	1		2.5m H

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Vinyl sheet floor			<del>BAC-PS-8</del>
Walls	Light blue painted gyproc.			BAC-PS-8
Ceiling	White painted gyproc			<del>BAC-PS-8</del>
Paint				
Insulation	Pink FG w/ Black backing			<del>BAC-AS-9</del>
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	1		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA.			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	NA.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

**Notes/Comments:**

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Dwelling	Room 3	1		

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Vinyl Sheet floor.			
Walls	<del>Light blue</del> painted GYPROC.			BAC-AS-10 plaster
Ceiling	White painted Gyproc.			
Paint				
Insulation	Pink FG w/ Black backin			BAC-AS-9.
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	1		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	—			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

**Notes/Comments:**

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Equipment Building	Exterior			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor				
Walls	white painted, wood. gray painted concrete			BAC-PS-11-white BAC-PS-10 gray
Ceiling				
Paint				
Insulation				
Piping				
Lighting (fluorescent, incandescent, HG, vapour)	ND		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NC		Total: HG containing: Non-HG:	
Lead Containing Materials	D			
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

## Notes/Comments:

BAC-AS-11 → fibrous caulking around siding  
gray/white.  
BAC-AS-12 → red shingles  
BAC-AS-14 → Black exterior felt

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Equipment Building	Porten	1		3m x 4m

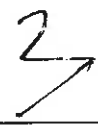
	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Dark on top. Multiple layers of grey. ON concrete			BAC-PS-12 (BAC-PS-DUR2)
Walls	Light on top. Multiple layers of grey on gyproc/concrete.			BAC-PS-13 BAC-AS-13. drywall mortar
Ceiling	Same color on gyproc.			
Paint				
Insulation	Pink FG on black paper			
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	<del>NA</del> 2		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NO			
Mould / Water Staining	yes			
Other (CO, VOCs, ODSs)	NO.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Equipment Building	Room 1			3m H

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Multiple layers of grey on concrete.			
Walls	grey painted concrete & gyp. wall.			
Ceiling	<del>white</del> painted			
Paint				
Insulation	ceiling. Pink FG on black paper			
Piping	yes. plastic & metal.			
Lighting (fluorescent, incandescent, HG, vapour)			Serial #s (10% to be checked): RQM-2540-TPC Phillips Advance	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA.			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	generators/ equipment.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:



Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Equipment Building	Room 2	1		3m H

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Multiple layers of grey on concrete.			
Walls	concrete / drywall on board. unfinished on one side grey painted.			BAC-PS-14 (grey) BAC-AS-15 Plaster
Ceiling	<del>grey</del> painted approx. white			<del>3A</del> BAC-PS-15 ceiling white.
Paint				
Insulation	ceiling: Pink <del>FG</del> W Black paper			BAC-AS-16 pink FG / black paper backings. BAC-MD-02 - ceiling on paper backing on inside.
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	<del>200W 24</del> 2 light bulb.		Serial #s (10% to be checked): too high to check	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	no.			
Mould / Water Staining	yes.			
Other (CO, VOCs, ODSs)	no			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

AST inside - red Some damage to building from waves

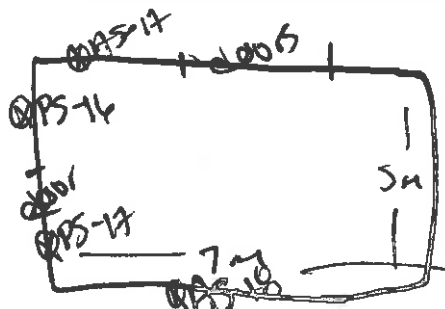
# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Storage 1	Exterior.	1		

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	unfinished concrete			
Walls	white paint on wood Grey on concrete.			BAC-PS-16 (white) BAC-PS-17 (grey)
Ceiling	unfinished			
Paint				
Insulation	NA			
Piping	NA			
Lighting (fluorescent, incandescent, HG, vapour)	NA		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA.		Total: HG containing: Non-HG:	
Lead Containing Materials	NA			
Mould / Water Staining	NA			
Other (CO, VOCs, ODSs)	NA.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

## Notes/Comments:



BAC-AS-17  
red shingles

BAC-AS-18  
white window caulking  
(BAC-AS-Dup-2)

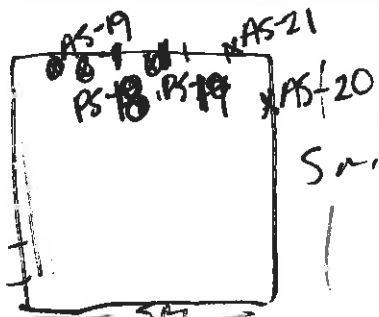
# Main Site Area

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
Videograph Buildin	one room.	1		5x5 x 2.5H

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Unpainted concrete.			
Walls	White painted plywood			BAC-PS-18 BAC-PS-19 white Paint on metal door
Ceiling	White painted plywood			
Paint				
Insulation	? not assessable			BAC AS-19 yellow foam on dip in floor.
Piping	NO.			
Lighting (fluorescent, incandescent, HG, vapour)	4. See photos		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	NA		Total: HG containing: Non-HG:	
Lead Containing Materials	NA.			
Mould / Water Staining	NA.			
Other (CO, VOCs, ODSs)	NA.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

## Notes/Comments:



BAC-AS-20 - red shingles  
BAC-AS-21 - white caulk  
on window

~~BAC-PS~~

BAC-AS-22 - caulk in  
(clear) around wood shingles

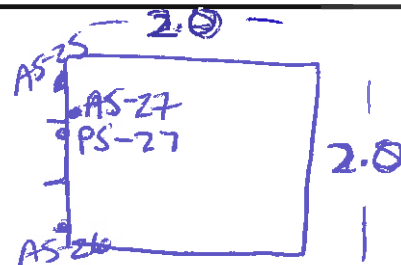
Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H) (meters)
Electrical shed	1 Room	1		2.0 x 2.0 x 2.5

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Unfinished concrete	good	all	—
Walls	Plywood unfinished	good	—	—
Ceiling	Plywood & open insulation (polybead)	good	—	—
Paint	N/A.	—	—	
Insulation	White polybead insulation.	good	—	—
Piping	NA.	—	—	—
Lighting (fluorescent, Incandescent, HG, vapour)	1	—	Serial #s (10% to be checked):  —	
Thermostats (eg. Honeywell, etc.)	NA.	—	Total: HG containing: Non-HG:  —	
Lead Containing Materials	NA.	—	—	—
Mould / Water Staining	NA.	—	—	—
Other (CO, VOCs, ODSs)	NA.			
Photos				

**Legend:** PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

**Notes/Comments:**

external  
 white painted wood panel siding  
 BAC-AS-25 - Black tar paper. (BAC-AS-PVP-3)  
 BAC-AS-26 - white caulking on sides  
 BAC-AS-27 Vapor barrier paper.  
 BAC-PS-27 - white on ~~ply~~ wood panel siding



Building: Dwelling

Date: Aug. 28, 2013

Page 1 of 2

Site: Bacalhao Island LS

Project Number: TF13076513

Room	Appliance	Furniture	Wood Products	Metal Products	Other
Bathroom				Light fixtures.	Sink, Toilet, Tub Wooden shelf Personal items Cleaning products
Kitchen / Living Room		2 Recliners	Small Table Cabinets Small shelf	Light fixtures. Shelving brackets	Small TV stand. Dishes, Food, Paper Utensils Glass light fixtures Cleaning products
Bedroom (Same side as Bathroom)		Cherkerfield	Wooden bed platform w drawers, wooden closet, Table	Light fixtures.	Paper
Bedroom (Opposite Bedroom)			Two bed platforms w drawers, two closets.	Light fixtures (2)	Miscellaneous personal items Electrical wiring 2 mattress w/ bedding.
Bedroom (Opposite Bathroom)		One chair	Two bed platforms w drawers (two single mattresses), two closets	Light fixtures.	Misc. personal items 2 mattress w/ bedding
Telephone Room (Attic Hatch)			Ladder, shelves		Paper

Notes:

Mould impacted materials throughout building; bird feces in most areas of 1<sup>st</sup> floor

Building: Dwelling  
 Site: Bacalhao Island

Date: Aug 28, 2013  
 Project Number: TF13076513

Page 2 of 2

Room	Appliance	Furniture	Wood Products	Metal Products	Other
Room (Next to Porch)		Small Table	Shelves		Paper
Porch			Doors (2)		Map, garbage can lid, clothing hooks
Basement	Oil Furnace Two Freezers H/W Boiler		L-shaped bench, three boxes, shelves, stairs	Door, 909 L AST Ductwork, Pipes, Fuel Lines, sheet of Metal, Bolts, wire baskets	Laundry Sink, Books Misc personal Items Electrical Wiring
Exterior			Stairway (W 20m) wooden platform (2x4's) approx 4x2 in size. Wooden railing	Door	Plastic eavestrapping (W 19.2m)

Notes:

Building: Tramway Storage Shed

Date: August 27/2013

Page 1 of 1

Site: Bac

Project Number:

Room	Appliance	Furniture	Wood Products	Metal Products	Other
1	/	/	two doors. garage.	2" Rope wire nails (box)	Misc. fishing supplies (raft, sailing supplies)
Attic	/	/	limited 2x6's	old winch	Misc. fishing supplies sails rope
Outside	/	/	small door	Metal pipe on southern side of shed.	

Notes:

Hazardous dilapidated walkways to storage shed

## Inventory List - DFO Lightstations 2013

Building: Tramway  
Site: Bac

Date: August 27/13  
Project Number:

Page 1 of 1

Room	Appliance	Furniture	Wood Products	Metal Products	Other
/	/	/	wood 2x4 (Approx 60m long)	Cable used to hoist	Concrete Pillars

Notes:



Building: Equipment Building  
 Site: Bacalhao Island LS

Date: Aug. 28, 2013

Page 1 of 1

Project Number: TF13076513

Room	Appliance	Furniture	Wood Products	Metal Products	Other
Room (Door side)			4 Doors, Bench		Oil absorbent (3 bags) Drywall debris, etc. Electrical box
Generator Room				3 Generators, Jst Fuel drum (206L) Small AST, 2 compressors Ductwork	Electrical Panels Drywall debris, 2 Fluorescent Lights Electrical wiring.
" "			Damaged wall debris	Flammable cabinet Doubt wallled AST (capacity unknown) Pipes for AST	Metal garbage can and mop pail

Notes:

Building Exterior Areas

Date: Dec 19, 2013

Page 1 of 2

Site: Bacallao Island LS

Project Number: TF13076513

Area	Appliance	Furniture	Wood Products	Metal Products	Other
Tank Chute Approx size (2m x 1m)			2x4 products & 4x4 products.	metal piping	Plastic piping.
Fencing, Stairs & Walkways			- 2x4s & 4x4s used - fencing (~40 m long) - stairs (~40 m) - walkway (~30 m long)		
Wooden box (Approx size (2m x 1m x 1m))			Wooden debris (various) 2x4 & 4x4 products.	Sheet metal various metal debris	plastic 20L buckets (2) plastic 5L bucket (1)
TV Satellite Area			Cresote timber (Approx 16 pieces) Wooden box	TV Satellite & associated wiring metal debris	rope
Light Tower Area				metal brackets (w/)	Concrete foundation & brick personal items
Near Dwelling			Ladder		

Notes:

## Inventory List - DFO Lightstations 2013

Building: Exterior Areas

Date: Dec 19/2013

Page 2 of 2

Site: Bacallao Island

Project Number: TF13076513

Room	Appliance	Furniture	Wood Products	Metal Products	Other
Near Solar Array.			- Former wooden staircase - various pieces of wooden debris (w 3- 2x4's)		Former concret foundation for wooden staircase - Concrete pad (1.0m x 0.5m)
Near Equipment Building					Concrete foundation. (w 6 x 3 x 0.5)
Unidentified Areas					- Brick debris on main site area.

Notes:

**APPENDIX C10**  
**REPORT LIMITATIONS**

### **LIMITATIONS**

1. The work performed in the preparation of this report and the conclusions presented are subject to the following:
  - (a) The Standard Terms and Conditions which form a part of our Contract;
  - (b) The Scope of Services;
  - (c) Time and Budgetary limitations as described in our Contract; and,
  - (d) The Limitations stated herein.
2. No other warranties or representations, either expressed or implied, are made as to the professional services provided under the terms of our Contract, or the conclusions presented.
3. The conclusions presented in this report were based, in part, on visual observations of the site and attendant structures. Our conclusions cannot and are not extended to include those portions of the site or structures which were not reasonably available, in AMEC's opinion, for direct observation.
4. The environmental conditions at the site were assessed, within the limitations set out above, having due regard for applicable environmental regulations as of the date of the inspection. A review of compliance by past owners or occupants of the site with any applicable local, provincial or federal by-laws, orders-in-council, legislative enactments and regulations was not performed.
5. Where testing was performed it was carried out in accordance with the terms of our contract providing for testing. Other substances, or different quantities of substances testing for, might be present on site and be revealed by different or other testing not provided for in our contract.
6. The findings within this report do not reflect potential ACMs in areas not accessed, such as remote space areas, roof areas, wall cavities and ceilings spaces. During future renovations or demolition activities and subsequent removal of interior wall and ceiling materials, the actual quantities of asbestos containing materials can be verified. Also at this time, analysis of suspect ACM materials may be required if the appearance differs from that of materials previously confirmed to contain asbestos in adjacent rooms.
7. Because of the limitations referred to above, different environmental conditions from those stated in our report might exist. Should such different conditions be encountered, AMEC must be notified in order that it may determine if modifications to the conclusions in the report are necessary.
8. The utilization of AMEC's services during the implementation of any remedial measures will allow AMEC to observe compliance with the conclusions and recommendations contained in the report. AMEC's involvement will also allow for changes to be made as necessary to suit field conditions as they are encountered.

9. This report is for the sole use of the party to whom it is addressed unless expressly stated otherwise in the report or contract. Any use which any third party makes of the report, in whole or the part, or any reliance thereon or decisions made based on any information or conclusions in the report, is the sole responsibility of such third party. AMEC accepts no responsibility whatsoever for damages or loss of any nature or kind suffered by any such third party as a result of actions taken or not taken or decisions made in reliance on the report or anything set out therein.
10. This report is not to be given over to any third party for any purpose whatsoever without the written permission of AMEC.