



## Laboratory Report

March 10, 2020

Dan Burgo - Mail Code 02-2  
US EPA New England R1

Project Number: 20030005  
Project: Former Cass Toy Co. - Athol, MA  
Analysis: Bulk Asbestos Analysis by PLM  
Analyst: Scott Clifford

### Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, INGASBSED2.

Analytical Method: Polarized Light Microscope (PLM) with Dispersion Staining.  
All quantities are estimated volume percent.

Date Samples Received by the Laboratory: 03/09/2020

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Former Cass Toy Co. - Athol, MA

Bulk Asbestos Analysis by PLM

Client Sample ID: ASB-01  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85594  
Matrix Bulk

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose board.

Client Sample ID: ASB-02  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85595  
Matrix Bulk

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration</u> <u>%</u>	<u>RL</u> <u>%</u>	<u>Qualifier</u>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	Trace	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Trace chrysotile present, but less than 1%.  
Black roof material

**Former Cass Toy Co. - Athol, MA**

**Bulk Asbestos Analysis by PLM**

Client Sample ID: ASB-03  
 Date of Collection: 3/6/2020  
 Date of Extraction: 3/6/20  
 Date of Analysis: 3/6/20

Lab Sample ID: AB85596  
 Matrix: Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	1	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Black roof material

Client Sample ID: ASB-04  
 Date of Collection: 3/6/2020  
 Date of Extraction: 3/6/20  
 Date of Analysis: 3/6/20

Lab Sample ID: AB85597  
 Matrix: Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose board

**Former Cass Toy Co. - Athol, MA**

**Bulk Asbestos Analysis by PLM**

Client Sample ID: ASB-05  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85598  
Matrix Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	12	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cement-like board

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Client Sample ID: ASB-105  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85599  
Matrix Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	12	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cement-like board

**Former Cass Toy Co. - Athol, MA**

**Bulk Asbestos Analysis by PLM**

Client Sample ID: ASB-06  
 Date of Collection: 3/6/2020  
 Date of Extraction: 3/6/20  
 Date of Analysis: 3/6/20

Lab Sample ID: AB85600  
 Matrix: Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	12	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cement-like board

Client Sample ID: ASB-07  
 Date of Collection: 3/6/2020  
 Date of Extraction: 3/6/20  
 Date of Analysis: 3/6/20

Lab Sample ID: AB85601  
 Matrix: Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Fiberglass shingle

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**Bulk Asbestos Analysis by PLM**

Client Sample ID: ASB-08  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85602  
Matrix Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

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Client Sample ID: ASB-09  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85603  
Matrix Bulk

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Cellulose

**Former Cass Toy Co. - Athol, MA**

**Bulk Asbestos Analysis by PLM**

Client Sample ID: SS-01  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85604  
Matrix: Soil

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Soil

Client Sample ID: SS-02  
Date of Collection: 3/6/2020  
Date of Extraction: 3/6/20  
Date of Analysis: 3/6/20

Lab Sample ID: AB85605  
Matrix: Soil

<b>CAS Number</b>	<b>Compound</b>	<b>Concentration %</b>	<b>RL %</b>	<b>Qualifier</b>
	Actinolite	ND	1.0	
	Amosite	ND	1.0	
	Anthophyllite	ND	1.0	
	Chrysotile	ND	1.0	
	Crocidolite	ND	1.0	
	Tremolite	ND	1.0	

Comments: Soil