

EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report
0175418

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: AMEC ENV. & INFRASTRUCTURE Job# / P.O. #: TV147025 1636
Address: 608 McLEOD STREET Date Received: 09/07/2016
REGINA, SASKATCHEWAN S4N 4Y1 Date Analyzed: 09/07/2016
Collected: 08/30/2016 Date Reported: 09/07/2016
Project Name: INUVIK ABATEMENT EPA Method: EPA 600/R-93/116
Address: Submitted By: KENT MUDEREWICH
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0175418-001 ACM-A-01	TRADE SHOP	Vinyl Roll Flooring, Red & Black/Lt. Gray Note: Insufficient Mastic/Adhesive for Analysis	No	None Detected	Fibrous Glass 20% Cellulose Fiber 3% Synthetic Fiber 2% Gypsum Quartz Binder/Filler 75%
0175418-002 ACM-A-02	15 NANUK PLACE	LAYER 1 Vinyl Floor Tile, Cream & Green	No	None Detected	Cellulose Fiber 30% Carbonates Gypsum Quartz Binder/Filler 70%
		LAYER 2 Adhesive, Gray Tan Note: Very small amount of Adhesive	No	None Detected	Cellulose Fiber 5% Carbonates Gypsum Binder/Filler 95%
0175418-003 ACM-A-03	18 CAMSELL PLACE	LAYER 1 Roof Shingle, Dk. Gray/Black	No	None Detected	Cellulose Fiber 30% Carbonates Gypsum Quartz Binder/Filler 70%
		LAYER 2 Roof Tar, Black	No	None Detected	Cellulose Fiber 2% Carbonates Quartz Binder/Filler 98%
0175418-004 ACM-A-04	66 ALDER DRIVE	LAYER 1 Roof Material, Green/ Black	No	None Detected	Fibrous Glass 10% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 85%
		LAYER 2 Insulation, White	No	None Detected	Foam Binder/Filler 100%

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0175418-005 ACM-A-05	66 ALDER DRIVE	LAYER 1 Asphalt Tar, Black	No	None Detected	Cellulose Fiber Fibrous Glass Gypsum Quartz Binder/Filler	1% <1% 98%
		LAYER 2 Asphalt Paper, Black/ Yellow	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler	75% 25%
		LAYER 3 Insulation, Lt. Gray/Black	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	50% 50%
0175418-006 ACM-A-06	66 ALDER DRIVE	LAYER 1 Asphaltic Roof Material, Dull Green/Black	No	None Detected	Synthetic Fiber Carbonates Quartz Binder/Filler	30% 70%
		LAYER 2 Roof Mastic, Black	Yes	Chrysotile 2%	Synthetic Fiber Fibrous Glass Carbonates Gypsum Quartz Binder/Filler	3% 2% 93%

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Address:		Submitted By:	KENT MUDEREWICH	
		Collected By:		

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0175418-007 ACM-A-07	68 ALDER DRIVE	LAYER 1 Asphaltic Roof Material, Dull Green/Black	No	None Detected	Fibrous Glass	20%
		LAYER 2 Asphaltic Roof Material, Black	No	None Detected	Carbonates Quartz Binder/Filler	80%
		LAYER 3 Roof Tar, Black	No	None Detected	Fibrous Glass Cellulose Fiber Carbonates Gypsum Quartz Binder/Filler	25% 75% 1% <1% 98%
0175418-008 ACM-A-08	15 NANUK PLACE	LAYER 1 Asphalt Shingle, Lt. Green/ Black	No	None Detected	Cellulose Fiber	15%
		LAYER 2 Roof Felt, Black	No	None Detected	Carbonates Quartz Binder/Filler	85% 50% 50%
0175418-009 ACM-A-09	15 NANUK PLACE	LAYER 1 Asphalt Shingle, Lt. Green/ Black	No	None Detected	Cellulose Fiber	50%
		LAYER 2 Roof Felt, Black	No	None Detected	Fibrous Glass Carbonates Quartz Binder/Filler	15% 85% 50% 50%

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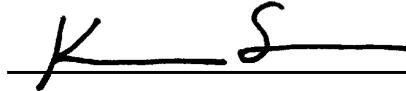
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Lab ID	Sample	Layer Name /	Asbestos	Asbestos Type	Non-Asbestos
Client ID	Location	Sample Description	Detected	(%)	Constituents



Analyst - Kurt Kettler



Signatory - Lab Manager - Ken Scheske

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.