Chen-Northern, Inc.

A member of the HIH group of companies

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BILLINGS, MT 59107
(406) 248-9161
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RECEIVED
NOV - 2 1990
JOHNSON-GRAHAM ASSOCIATES

TECHNICAL REPORT

2210
X1059
2014
1663
2114

*Revised: 11/01/90

DATE: August 20, 1990
JOB NUMBER: 84-925-1
SHEET: 1 OF 9
INVOICE NO.: 103534

REPORT TO: JOHNSON-GRAHAM ASSOCIATES
ATTN: MR. TERRAL SUKUT
644 GRAND AVENUE
BILLINGS, MT 59102

REPORT OF: Building Material Analysis - Eureka Ranger Station

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Sample Identification:

On July 16, 1990, our laboratory received 29 building material samples from Mr. Ed Kiely of Johnson-Graham Associates. A completed chain of custody record was received which identified the above referenced project as the source of the samples. Our laboratory assigned lab numbers 32682 - 32710 to the samples and analyzed them in general accordance with EPA Interim Method EPA 600/M4-82-020, which employs polarized light microscopic techniques with dispersion staining for identification of mineral forms of asbestos. The quantification of asbestos in the sample is intended to be an estimate only. The results are shown on the following pages.

A < sign indicates less than the reported value was present in the sample.

On April 1, 1989, our laboratory was assigned "accredited" status by the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program, (NVLAP).

*Lab No. 32687 - corrected 2nd layer.

Reviewed by

rmr

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF OUR CLIENTS AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL. SAMPLES WILL BE DISPOSED OF AFTER TESTING IS COMPLETED UNLESS OTHER ARRANGEMENTS ARE AGREED TO IN WRITING.

(Rev. 1/89) CNI-114

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90-7

REPORT OF: Building Material Analysis - Eureka Ranger Station

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Reviewed by Kathleen A. Hart

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BUILDING MATERIAL ANALYSIS
ASBESTOS CONTENT

EUREKA RANGER STATION
GRD. STOR. WAREHOUSE (2210)
JOHNSON-GRAHAM ASSOCIATES

August 20, 1990
Job No. 84-925-1

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
32682	EGSW-1, HA-1, roofing shingles, roof by front door	Brown fibrous solid	None detected	60-70% Cellulose

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BUILDING MATERIAL ANALYSIS
ASBESTOS CONTENT

EUREKA RANGER STATION
RESIDENCE (1059)
JOHNSON-GRAHAM ASSOCIATES

August 20, 1990
Job No. 84-925-1
Sheet 3 of 9

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
32683	ERSB-1, HA-1, drywall, kitchen outlet right of sink, room 8	Two layers:		
		1) Tan fibrous mat with paint	None detected	80-90% Cellulose
		2) White chalky solid	None detected	20-30% Cellulose
32684	ERSB-2, HA-1, drywall, hallway outlet, room 4	Two layers:		
		1) Tan fibrous mat with paint	None detected	80-90% Cellulose
		2) White chalky solid	None detected	20-30% Cellulose
32685	ERSB-3, HA-1, drywall, light switch, room 3	Gray granular solid with paint	None detected	1-3% Cellulose
32686	ERSB-4, HA-2, asbestos fireboard, basement, near furnace	Gray fibrous solid	50-60% Chrysotile	1-5% Cellulose
X 32687	ERSB-5, HA-3, VA base-board, bathroom, room 7 corner by door	Two layers:		
		1) Brown rubber with paint	None detected	None detected
		2) Gold mastic	None detected	1-3% Cellulose 1-3% Wollastonite

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BUILDING MATERIAL ANALYSIS
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EUREKA RANGER STATION
RESIDENCE (1059)
JOHNSON-GRAHAM ASSOCIATES

August 20, 1990
Job No. 84-925-1

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
32688	ERSB-6, HA-4, sheet floor covering, kitchen closet, room 8, corner by door	Two layers: 1) Cream and tan vinyl 2) Gray fibrous mat	 None detected None detected	 None detected 60-70% Cellulose 5-10% Fibrous Glass 1-5% Synthetic
32689	ERSB-7, HA-4, sheet floor covering, bathroom, room 7, corner by bathtub	Two layers: 1) Cream vinyl 2) Gray fibrous mat	 None detected None detected	 None detected 5-10% Fibrous Glass 1-5% Synthetic
32690	ERSB-8, HA-4, sheet floor covering, bathroom, room 6, corner by door	Two layers: 1) Gray fibrous mat 2) Tan mastic	 None detected None detected	 60-70% Cellulose 5-10% Fibrous Glass 1-5% Synthetic 1-5% Cellulose