

**HAZARDOUS BUILDING MATERIALS SURVEY
U.S. ARMY CORPS OF ENGINEERS
EDWARD MACDOWELL LAKE
PETERBOROUGH, NH
PERFORMANCE WORK STATEMENT**

APPENDIX C

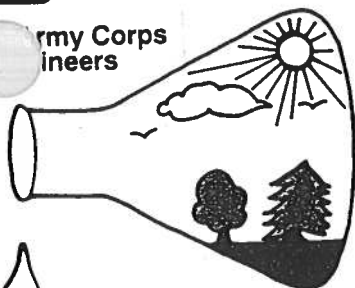
See Attached

Merrimack River Basin Asbestos Survey; June 12, 1995; 11 pages.

**Asbestos Removal Contract Summary of Work; DACW33-96-M-0903; July 17, 1996; 2
pages.**



U.S. Army Corps
of Engineers



**ENVIRONMENTAL
LABORATORY**

Hubbardston MA 01452

PRELIMINARY
Pending Review By
Quality Assurance Officer

MERRIMACK RIVER BASIN ASBESTOS SURVEY

U.S. Army Corps of Engineers
New England Division
Environmental Laboratory
Hubbardston, MA 01452

Date: June 12, 1995

Michael J. Carroll
Director
Environmental Laboratory

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1. Case Summary

MERRIMACK RIVER BASIN ASBESTOS SURVEY

1. Environmental Laboratory personnel collected 14 plaster samples; 5 pipe lagging samples; 4 floor tile samples; 3 transite panel samples; 2 peg board samples; 1 ceiling tile samples; 1 insulation sample; and 1 ceramic tile sample for the above subject on 3 May 1995, 4 May 1995, and 11 May 1995. These samples were received at the laboratory on 3 May 1995, 5 May 1995, and 12 May 1995. Standard USEPA methods were employed for sampling and sample preservation. Copies of the chain-of-custody records are enclosed for reference, along with a list of the samples collected.

2. Our Contractor laboratory performed the following analysis:

Analysis

EPA Method

* Solid samples

Bulk Asbestos

600/M4-82-020

* Solid Samples = the above mentioned matrices.

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2. Field Notes

LEAD / ASBESTOS INVESTIGATION SUMMARY PROJECT: HERRINACK RIVER BASIN ASBESTOS SURVEY
 US ARMY CORPS OF ENGINEERS ED MACDOWELL DAM
 ENVIRONMENTAL LABORATORY DATE: 11 MAY 95
 HUBBARDSTON, MA. 01452 PAGE 1 OF 2

SITE NAME	SAMPLE NUMBER	FIELD ID #	SAMPLE MATRIX	BLDG # ROOM #	SAMPLE SOURCE	SAMPLE SUBSTRATE	MATRIX CONDITION	MATRIX COLOR	PARAMETER TESTED	TEST RESULTS	FIELD COMMENTS	TIME
ED MACDOWELL	30850	EM-1	PLASTER	U.B.	ELBOW	PIPE	GOOD	WHITE	ASBESTOS	NEGATIVE		1228
ED MACDOWELL	30851	EM-2	PLASTER	U.B.	PIPERUN	PIPE	GOOD	WHITE	ASBESTOS	NEGATIVE		1232
ED MACDOWELL	30852	EM-3	TRANSITE	U.B.	Ceiling	WOOD	GOOD	PAINTED WHITE	ASBESTOS	POSITIVE	TOTAL 18 4 X 8 SHEETS	1206
ED MACDOWELL	30853	EM-4	PLASTER	U.B.	PIPE RUN	PIPE	DAMAGED	WHITE	ASBESTOS	POSITIVE	SEE SKETCH	1255
ED MACDOWELL	30854	EM-5	PLASTER	U.B.	ELBOW OVER GARAGE	PIPE	DAMAGED	WHITE	ASBESTOS	POSITIVE	SEE SKETCH	1258
ED MACDOWELL	30855	EM-6	PLASTER	U.B.	PIPE	PIPE	DAMAGED	WHITE	ASBESTOS	POSITIVE	SEE SKETCH	1305
ED MACDOWELL	30856	EM-7	PLASTER	U.B.	PIPE RUN OVER LOBBY	PIPE	DAMAGED	WHITE	ASBESTOS	POSITIVE	SEE SKETCH	1308
ED MACDOWELL	30857	EM-8	PLASTER	GATE-HOUSE	EXHAUST	METAL	GOOD	WHITE	ASBESTOS	NEGATIVE	APPROX. 26' RUN EXHAUST GENERATOR	
ED MACDOWELL	30858	EM-9	TRANSITE	WALLS	WOOD	WOOD	DAMAGED	GREY	ASBESTOS	POSITIVE	BENEATH STAIRS APPROX. 3 4 X 8 SHEET	1600

SAMPLER(S) _____

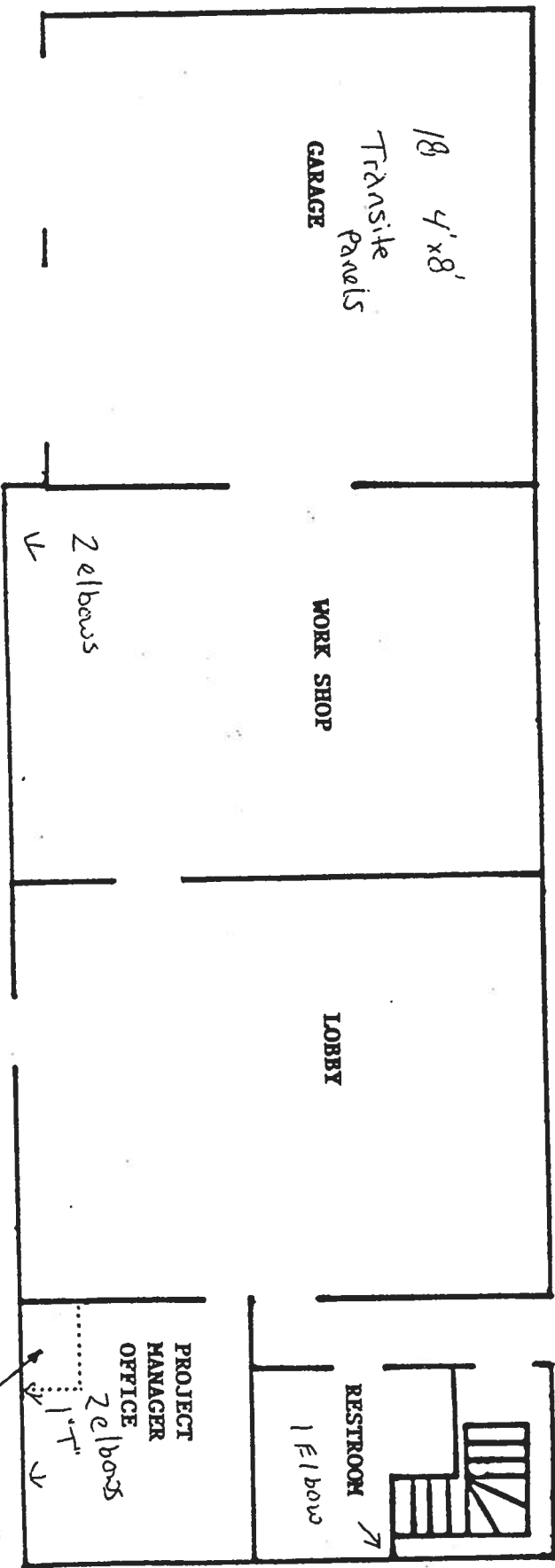
LEAD / ASBESTOS INVESTIGATION SUMMARY PROJECT: MERRIMACK RIVER BASIN ASBESTOS SURVEY
 US ARMY CORPS OF ENGINEERS ED MACDOWELL DAM
 ENVIRONMENTAL LABORATORY DATE: 11 MAY 95
 HUBBARDSTON, MA. 01452 PAGE 2 OF 2

DATE	SAMPLE NUMBER	FIELD ID #	SAMPLE MATRIX	BUILDING #	ROOM #	SAMPLE SOURCE	SAMPLE SUBSTRATE	MATRIX CONDITION	MATRIX COLOR	PARAMETER TESTED	TEST RESULTS	FIELD COMMENTS	TIME
ED MACDOWELL	30859	EX-10	FLOOR TILE	00		SIDE ENTRY FLOOR	PLYWOOD	DAMAGED	BLACK W/ RED	ASBESTOS POSITIVE	POSITIVE	ALSO IN BATH. TOTAL APPROX. 32 SQUARE FEET 9" X 9"	1505
ED MACDOWELL	30860	EX-11	PLASTER	00		WALL SW CORNER ROOM	METAL	SOME PLASTER NOT PAINTED	BLUE PAINT	ASBESTOS NEGATIVE	NEGATIVE		1510
ED MACDOWELL	30861	EX-12	PLASTER	00		WALL SW CORNER ROOM	PLASTER	SOME PLASTER NOT PAINTED		ASBESTOS NEGATIVE	NEGATIVE	EXTRUDED THROUGH PLASTER	1515
ED MACDOWELL	30862	EX-13	CERAMIC TILE	00		WALL	PLASTER	MINOR DAMAGED	YELLOW	ASBESTOS NEGATIVE	NEGATIVE		1530

R1

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 SAMPLER(S) _____

Merrimack River Basin Asbestos Survey
 Ed Macdowell Utility Bldg
 11 May 95
 M. Amundson



U.S. ARMY CORPS OF ENGINEERS
 EDWARD MACDOWELL LAKE
 PROJECT OFFICE

Suspected ACM

Fiberglass runs

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X. Andon

Utility Bldng - Affic space

NOT TO SCALE



all pipes are insulated with cloth wrapped plaster-type material. The entire attic space is insulated with loose VERMICULITE. Loose, (damaged) insulation was noticed laying on vermiculite as shown above. Pipe is abandoned all e/s open.

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Bulk Asbestos

June 12, 1995

Field #	Description	Test Name	Result
D-30738	E-2	Percent Total Asbestos	20 % CHRYSOTILE
		Percent Total Non-Asbestos Fiber	0 %
		Percent Total Non-Fiber Matter	80 % LIME, MINERAL GRAINS, RESINS/BINDERS
D-30739	E-3	Percent Total Asbestos	25 % 20% CHRYSOTILE, 5% AMOSITE
		Percent Total Non-Asbestos Fiber	10 % CELLULOSE
		Percent Total Non-Fiber Matter	65 % LIME, MINERAL GRAINS
D-30740	E-4	Percent Total Asbestos	13 % 10 % CHRYSOTILE, 3% AMOSITE
		Percent Total Non-Asbestos Fiber	10 % CELLULOSE
		Percent Total Non-Fiber Matter	77 % LIME, MINERAL GRAINS
D-30741	E-5	Percent Total Asbestos	0 %
		Percent Total Non-Asbestos Fiber	95 % MINERAL WOOL
		Percent Total Non-Fiber Matter	5 % MINERAL GRAINS
D-30850	EM-1	Percent Total Asbestos	0 %
		Percent Total Non-Asbestos Fiber	40 % MINERAL WOOL CELLULOSE
		Percent Total Non-Fiber Matter	60 % MINERAL GRAINS FLY ASH/SOOTS
D-30851	EM-2	Percent Total Asbestos	0 %
		Percent Total Non-Asbestos Fiber	45 % MINERAL WOOL CELLULOSE
		Percent Total Non-Fiber Matter	55 % MINERAL GRAINS FLY ASH/SOOTS
D-30852	EM-3	Percent Total Asbestos	25 % CHRYSOTILE
		Percent Total Non-Asbestos Fiber	0 %
		Percent Total Non-Fiber Matter	75 % MINERAL GRAINS RESINS/ASPHALT
D-30853	EM-4	Percent Total Asbestos	25 % 20% AMOSITE, 5% CHRYSOTILE
		Percent Total Non-Asbestos Fiber	10 % CELLULOSE
		Percent Total Non-Fiber Matter	65 % MINERAL GRAINS CLAY
D-30854	EM-5	Percent Total Asbestos	32 % 30% AMOSITE, 2% CHRYSOTILE
		Percent Total Non-Asbestos Fiber	0 %
		Percent Total Non-Fiber Matter	68 % MINERAL GRAINS
D-30855	EM-6	Percent Total Asbestos	35 % 25% AMOSITE, 10% CHRYSOTILE
		Percent Total Non-Asbestos Fiber	5 % CELLULOSE
		Percent Total Non-Fiber Matter	60 % MINERAL GRAINS
D-30856	EM-7	Percent Total Asbestos	40 % 35% AMOSITE, 5% CHRYSOTILE
		Percent Total Non-Asbestos Fiber	0 %
		Percent Total Non-Fiber Matter	60 % OPAQUES MINERAL GRAINS
D-30857	EM-8	Percent Total Asbestos	0 %
		Percent Total Non-Asbestos Fiber	30 % SYNTHETIC FIBERGLASS CELLULOSE
		Percent Total Non-Fiber Matter	70 % MINERAL GRAINS
D-30858	EM-9	Percent Total Asbestos	20 % CHRYSOTILE
		Percent Total Non-Asbestos Fiber	0 %
		Percent Total Non-Fiber Matter	80 % MINERAL GRAINS LIME

J.A.A.
Analyzed By: IEAReviewed By: , Chief ChemistPRELIMINARY
Pending Review By
Quality Assurance Officer

U.S. ARMY CORPS OF ENGINEERS - ENVIRONMENTAL LABORATORY

Bulk Asbestos

June 12, 1995

Field Description	Test Name	Result
D-30859 EM-10	Percent Total Asbestos	15 % CHRYSOTILE
	Percent Total Non-Asbestos Fiber	0 %
	Percent Total Non-Fiber Matter	85 % MINERAL GRAINS RESINS/ASPHALT
D-30860 EM-11	Percent Total Asbestos	0 %
	Percent Total Non-Asbestos Fiber	5 % CELLULOSE
	Percent Total Non-Fiber Matter	95 % MINERAL GRAINS
D-30861 EM-12	Percent Total Asbestos	0 %
	Percent Total Non-Asbestos Fiber <	1.0 % CELLULOSE
	Percent Total Non-Fiber Matter	99 % MINERAL GRAINS
D-30862 EM-13	Percent Total Asbestos	0 %
	Percent Total Non-Asbestos Fiber	0 %
	Percent Total Non-Fiber Matter	100 % MINERAL GRAINS RESINS/ASPHALT

J. A. A-
Analyzed By: IEAReviewed By: Wys, Chief ChemistPRELIMINARY
Pending Review By

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SECTION 01010

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SECTION 01010

SUMMARY OF WORK

PART 1 GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

The general description below is given to indicate the approximate scope of this project only. It does not limit the work required under the project drawings and specifications.

The work of this project consists of removing abandoned asbestos insulated 3/4 inch to 2 inch diameter steel heating pipe, removing asbestos contaminated insulation from 1 inch diameter steel water pipe, removing asbestos contaminated loos vermiculite insulation, disposing of various asbestos contaminated items and decontaminating various asbestos contaminated items. All items including piping and insulation are located for in an attic space. The work also involves providing new insulation for the water pipe, and provding new 6 inch thick fiberglass batt insulation and plywood flooring for the attic space.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01300 SUBMITTALS:

SD-04 Drawings

As-Built Drawings; GA.

As-built drawings showing all deviations which have been made from the contract drawings shall be submitted to the Contracting Officer for approval at the completion of work. See paragraph AS-BUILT DRAWINGS for record keeping and submittal requirements.

SD-07 Schedules

Progress Schedule; GA.

In accordance with the contract provisions, the Contractor shall, within five (5) days after receipt by him of notice to proceed or as otherwise determined by the Contracting Officer, submit for approval a practicable progress schedule. When changes are authorized that result in contract time extensions, Contractor shall submit a modified chart for approval by the Contracting Officer.