



HUB TESTING LABORATORY, INC.

Environmental Testing Service

**95 Beaver Street - Waltham, MA 02453
(781) 893-8330 (781) 893-4414 (fax)**

OPERATION AND MAINTENANCE ACTIVITIES AND PERIODIC CLEANING

Provide the following:

Name of person performing activity:

See Attachment A - Contractor Documentation

Start and completion date of activity:

February 22, 2002

Location where activity occurred:

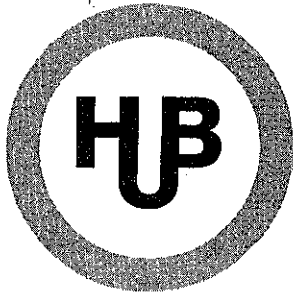
Crawl Space under room 17

Description of activity including preventative measures:

See Report

Name and location of disposal site for waste ACBM, if necessary (copy of manifest):

Southern Alleghenies Disposal Service
843 Miller Picking Road, Davidsville PA 15928
See Attachment B - Waste Disposal Documentation



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Report for:

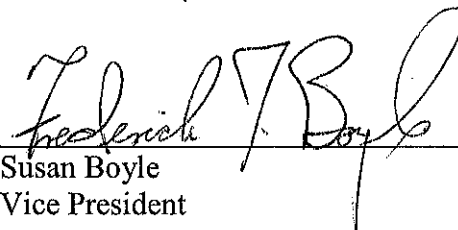
Haverhill Public Schools
Ed Dufresne, Designated Person
Electrical Inspector's Office
Haverhill City Hall
4 Summer Street
Haverhill, MA 01830

Project:

Emergency TSI Removal within crawl space under Room 17 Univent
Heater
John Greenleaf Whittier Middle School
256 Concord Street
Haverhill, MA 01830

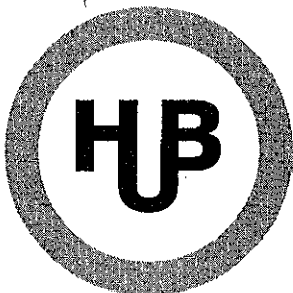
Prepared By:

Hub Testing Laboratory, Inc.
95 Beaver Street
Waltham, MA 02453

for 
Susan Boyle
Vice President

HUB TESTING LABORATORY, INC.

Environmental Testing Service



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Project: TSI removal on a pipe within the crawl space
under Room 17's Univent Heater

Site: John Greenleaf Whittier Middle School
256 Concord Street
Haverhill, MA 01830

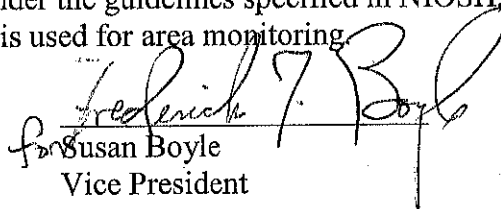
Project Monitor: David W. Cunliffe

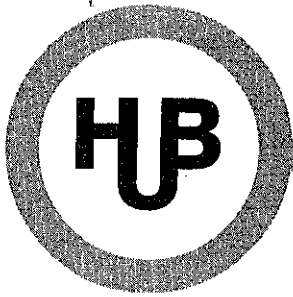
Date: February 26, 2002

Hub Testing Laboratory, Inc. was contracted to monitor the removal of thermal system insulation in the crawl space under Room 17. On February 22, 2002, Kimball Mechanical Services, Inc., 151 Essex Street Haverhill MA, 01832 with trained Asbestos-Associated Project Workers performed the removal of TSI via glove bag technique. Hub Testing Laboratories, Inc. set up air monitoring trains inside the school, just outside of the entrance to the containment and inside the crawl space, during the operation (see analytical data).

The contractor set up the work area per AHERA Appendix B to Subpart E for Small Scale, Short Duration Operations and Maintenance Activities and Massachusetts regulations, using the glove bag technique procedures.

All air monitoring and testing was performed under the guidelines specified in NIOSH, Asbestos and Other Fibers Method 7400. This procedure is used for area monitoring.


for Susan Boyle
Vice President



HUB TESTING LABORATORY, INC.

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HUB TESTING LABORATORIES

Consulting and Testing Engineers



95 Beaver Street — Waltham, Mass. 02154 — (617) 893-8330

REPORT FOR:

City of Haverhill

PROJECT:

John Greenleaf Whittier Middle School
CRAWL SPACE below Room #17 Unventilated

CONTRACTOR:

Kimball Mechanical

DATE:

02-22-02

Checklist

Adequate

Deficient

- | | | | |
|------------------------------------|------------|-------------------------------------|--------------------------|
| 1. Contractor's Personnel: | # <u>2</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Signs: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Barriers: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. DECON Facility Condition: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Housekeeping In/Out: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Entry/Exit Procedures Followed: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. HEPA Exhaust Operating: | | <u>N/A</u> | <input type="checkbox"/> |
| 8. Work Procedures Followed: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Respiratory Protection Used: | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Differential Pressure: | | <u>N/A</u> | <input type="checkbox"/> |

- | | | |
|--|------------|----------|
| 11. Copy of Contractor's Air Sampling Reports: | <u>N/A</u> | Received |
| 12. Copy of Contractor's Daily Logs: | | Received |

13. Signs of Heat Stress: Present Not Present

14. Unusual Occurrences: _____

15. Action Taken: _____

16. Hub Testing's Air Monitoring Test Results:

Sample I.D.	Location	Fibers/cc
<u>see ATTACHED Report</u>		

Technician: David W. Centiffe Log In: 8:15 AM Log Out: 12:00 pm

HUB TESTING LABORATORY, INC.

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PRE-ABATEMENT INSPECTION FORM

WORK AREA I.D.: CRAWL SPACE below Room #17 univent heater WORK AREA DESCRIPTION: _____

Replace & Remove Lines from leaking system. Replace line to univent heater in Room #17
DEMOLITION REQUIRED (describe) (*): _____

NO

MATERIAL TO BE ABATED (describe, give quantities):
Less than three feet of TSE on elbows

Small scale short duration activity - glove bag operation/water, vacuum

ESTIMATED DAYS REQUIRED FOR ABATEMENT: 1/2 day

CRITICAL BARRIERS IN PLACE:
Windows N/A Doors N/A HVAC Vents N/A Electrical Switches N/A
Electrical Outlets N/A Other _____

ALL MOVABLE EQUIPMENT OUT OF AREA YES NO
ALL NON MOVABLE EQUIPMENT WRAPPED (*) N/A

DECONTAMINATION FACILITIES (*):
FULL THREE CHAMBER PDF WITH HOT/COLD WATER _____
TWO CHAMBER EDF WITH WATER IN WASH CHAMBER _____
IF OTHER DESCRIBE SINGLE Chamber decon at crawl space opening in custodian closet next to girls bathroom.

TYPE OF RESPIRATORY PROTECTION TO BE USED: 1/2 face with HEPA Filter
NUMBER OF NEGATIVE AIR MACHINES OPERATING (*): N/A
PRESSURE READING: N/A
CONTAINMENT SMOKE TESTED: N/A

PIH'S SIGNATURE: [Signature] DATE 2-22-02

CONTRACTOR'S SIGNATURE: _____ DATE _____

(*) - Indicate on sketch

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DAILY AIR MONITORING DATA SHEET

Report For: John Gueaulest Whittier School
City of Haverhill

Contractor: Kimball Mechanical

Date: 2-22-02

Work Area: Crawl space below Room #17 Urvent Heater

Type of Sampling: Air monitoring Ambient

	A-1	A-2	A-3	A-4				
PUMP NUMBER	GA-2	15	GA-2	15				
CALIB. METHOD	Bubble	Bubble	Bubble	Bubble				
PRE-CALIB.	9.3	9.3	9.3	9.3				
POST-CALIB.	9.3	9.3	9.3	9.3				
AVG. FLOW	9.3	9.3	9.3	9.3				

BLDG. _____ FLOOR _____ WING _____

SAMPLE I.D	SAMPLE LOCATION	PUMP #	START	STOP	TOTAL MIN.	VOL. (L)	FIBERS	F/cc	F/mm2
A-1	hallway outside Closet	GA-2	8:30am	10:30	120	1116	10	0.004	
A-2	In crawl space Inside work area	15	9:00am	10:30	90	837	12	0.006	
A-3	hallway outside Closet	GA-2	10:30am	11:35	65	604.5	10	0.007	
A-4	Crawl space Inside work area	15	10:30am	11:15am	45	418.5	21	0.024	

Project Monitors Signature: [Signature] Date: 2-22-02

Technicians Signature: _____ Date: _____



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FINAL CLEARANCE FORM

WORK AREA I.D. CRAWL SPACE below Room #17 Urivent Hester

CONTRACTOR Kimball Mechanical

VISIBLE DEBRIS NOTED ON:	YES	NO
1. FLOORS	<u>N/A</u>	
2. WALLS	<u>N/A</u>	
3. CEILINGS	<u>N/A</u>	
4. PIPES		<input checked="" type="checkbox"/>
5. ELBOW FITTINGS		<input checked="" type="checkbox"/>
6. DUCTS	<u>N/A</u>	
7. HORIZONTAL SURFACES		<input checked="" type="checkbox"/>
8. EQUIPMENT		<input checked="" type="checkbox"/>

LOCKDOWN ENCAPSULANT APPLIED NO

SAMPLES COLLECTED USING AGGRESSIVE METHODS N/A

SAMPLE VOLUMES ADEQUATE FOR DETECTION LIMIT N/A

DATE SAMPLING PUMPS CALIBRATED onsite 2-22-02

FINAL AIR SAMPLE RESULTS N/A

FINAL AIR SAMPLES - PASS N/A

FINAL AIR SAMPLES - FAIL N/A

CONTRACTOR NOTIFIED Verbally Visual Clearance only

MONITOR'S SIGNATURE [Signature] DATE 2-22-02

ATTACHMENT A

CONTRACTORS DOCUMENTATION

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive, Wilmington, MA 01887
(978) 658-5272

IEE

IEE

This is to certify that
Steve C Gigliotti

has completed the 16-hour course

Asbestos Operations & Maintenance Training


November 02, 2001
Examination Date

01384010524520
Certificate Number

November 1-2, 2001
Course Dates

Course Location
Institute for Environmental Education
16 Upton Drive
Wilmington, MA 01887

November 02, 2002
Expiration Date


President/Director of Training

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive, Wilmington, MA 01887
(978) 658-5272



This is to certify that
Jim L Howie

has completed the 16-hour course

Asbestos Operations & Maintenance Training

January 14-15, 2002

Course Dates

Course Location
Institute for Environmental Education
16 Upton Drive
Wilmington, MA 01887

January 15, 2003

Expiration Date

January 15, 2002

Examination Date

02429710524698

Certificate Number

Paul Howard
President/Director of Training

ATTACHMENT B
WASTE DISPOSAL DOCUMENTATION

J.O.B. / ROLLOFF, INC.

Asbestos Waste Transport & Disposal

Box 6037, Chelsea, MA 02150

(617) 387-1495



ROLL-OFF CONTAINERS
10-15-20-30-40 YARDS

NON-HAZARDOUS WASTE

RQ, ASBESTOS, 9, NA2212, PG III



RQ
2212,
Asbestos
9

3549

ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number 02-017 P.O. # _____
 Contractor All State Abatement Professionals, Inc.
 Address 60 Railroad Street
 City Haverhill State MA Zip 01835
 Telephone Number (978) 374-5420
 Date Container Del. _____ Date of Pickup 3-26-02
 Type of Container 40YARD CLOSED
 Friable Non-Friable
 Bag 2 Drum _____ Box _____ Other _____

GENERATOR/BUILDING OWNER
 Name CITY OF Haverhill
 Address 4-Summer ST
 City Haverhill State MA Zip 01835
 Phone Number 978-374-2355

GENERATING LOCATION
 Name Whittier School
 Address 256 Concord ST
 City Haverhill State MA Zip 01835
 Phone Number _____

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME
GENERATORS

U.S. EPA - Region I
Air Management - JFK Building
Boston, MA 02203
(617) 565-3265

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Authorized Signature [Signature] Date 3-26-02

Transporter 1: J.O.B. / ROLLOFF, INC. • P.O. BOX 6037, CHELSEA, MA 02150 • (617) 387-1495

I hereby certify that the above named material was picked up at the generator site listed above, and, if applicable delivered to the temporary storage/transfer location or final landfill destination.

Driver: William McGlashan Registration #: MA 10013 Date: 3/26/02
Signature State / #

TEMPORARY STORAGE / TRANSFER FACILITY: **WASTE MANAGEMENT OF CONNECTICUT, INC.**
203 PICKERING STREET, PORTLAND, CT 06480
PHONE: (860) 342-0667 PERMIT # SW 1130223

Received By: K. Johnson - Mansfield Date: 4/1/02

I hereby certify that the above named material has been accepted at the above named facility.

Transporter 2: WASTE MANAGEMENT OF CT, INC., P.O. BOX 144, PORTLAND, CT 06480 (860) 342-0667

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver: [Signature] Registration #: AB 273 Date: 4-8-02
Signature State / #

Landfill Name: Southern Alleghenies Disposal Service Phone No: (814) 479-2537

Location: 843 Miller Picking Road, Davidsville, PA 15928 Permit #: 100081

Approximate Volume of Asbestos Received: 1 bag

Discrepancy If Any: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the information provided is true and accurate.

Received by: Michael Mann Date: 4-9-02

ATTACHMENT C

PROJECT NOTIFICATIONS

Not Supplied

Kimball Mechanical was unaware of the need to notify. This was not found out until project completion.

ATTACHMENT D

HUB TESTING DOCUMENTATION

Control No: 10563



THE COMMONWEALTH OF MASSACHUSETTS
Department of Labor and Workforce Development
Division of Occupational Safety

399 Washington Street, 5th Floor, Boston, Massachusetts 02108

CERTIFICATION FOR ASBESTOS ANALYTICAL SERVICES

HUB TESTING LABORATORY, INC.
95 BEAVER STREET
WALTHAM MA 02154-


LICENSE: AA000013

EXPIRES: Friday, June 07, 2002

IN ACCORDANCE WITH MGL CH. 149 § 6B AND 453 CMR 6.08 THIS CERTIFICATE IS ISSUED BY THE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT, DIVISION OF OCCUPATIONAL SAFETY TO PROVIDE THE ASBESTOS ANALYTICAL SERVICES SPECIFICALLY LISTED BELOW:

CLASS B CERTIFICATE

CLASS C CERTIFICATE


Robert J. Prezioso, Deputy Director

Commonwealth of Massachusetts
Division of Occupational Safety
Robert J. Prezioso, Deputy Director



Asbestos Project Monitor

DAVID W. CUNLIFFE

Eff. Date 10/26/2001

Exp. Date 10/25/2002

AM 60912

Member of C O N E S

NW000913



WN - NEW

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive, Wilmington, MA 01887
(978) 658-5272

IEE

IEE

This is to certify that

David W Cunliffe

has completed the requisite training, and has passed an examination for accreditation

Asbestos Project Monitor

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

October 12, 2001
Examination Date

01385617310792
Certificate Number

October 8-12, 2001

Course Dates

Course Location

Institute for Environmental Education
16 Upton Drive
Wilmington, MA 01887

October 12, 2002
Expiration Date



President/Director of Training